



PART  
TOME  
TEIL

VOLUME  
VOLUME  
BAND

PROCEEDINGS AND RESULTS



International Society for Photogrammetry and Remote Sensing  
Société Internationale de Photogrammétrie et de Télédétection  
Internationale Gesellschaft für Photogrammetrie und Fernerkundung

XXI<sup>st</sup> Congress  
XXI<sup>e</sup> Congrès  
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THE INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES  
ARCHIVES INTERNATIONALES DE PHOTOGRAMMÉTRIE, DE LA TÉLÉDÉTECTION ET DE L'INFORMATION SPATIALE  
INTERNATIONALES ARCHIV FÜR PHOTOGRAMMETRIE, FERNERKUNDUNG UND RAUMBEZOGENE INFORMATIONSWISSENSCHAFTEN

# PROCEEDINGS AND RESULTS

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# XXXVII

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TEIL

# A



Edited by:  
Jun CHEN, Congress Director

Published by the Organising Committee of the XXI<sup>st</sup> International Congress for Photogrammetry and Remote Sensing  
Publié par le Comité d'Organisation de XXI<sup>e</sup> Congrès Internationale de Photogrammétrie et de Télédétection  
Herausgegeben vom Organisationskomitee für den XXI. Internationalen Kongress für Photogrammetrie und Fernerkundung



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### **Volume XXXVII, Part A Proceedings and Results**

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# **ISPRS**

2008

## **WELCOME TO THE XXI ISPRS CONGRESS**

Introduction by the Congress Director, Chen Jun

# INTRODUCTION BY THE CONGRESS DIRECTOR, CHEN JUN

The quadrennial Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS) was held on 3-11 July 2008 in the historical and beautiful city of Beijing, where the XXIXth Olympic Games were to take place one month later. Before the opening of the Congress, Chinese Vice Premier Li Keqiang met with the ISPRS Council members and the representatives of the Congress participants on behalf of the Central People's Government of China.

The Congress was officially opened on July 3 at the Beijing International Convention Center (BICC). The Opening Ceremony was chaired by Prof. Yang Kai, President of the Chinese Society of Geodesy, Photogrammetry and Cartography (CSGPC). Welcoming addresses were delivered by Prof. Ian Dowman, President of ISPRS, and Mr. Lu Xinshe, Vice Minister, Ministry of Land and Resources, and Director General, State Bureau of Surveying and Mapping of China. The Wang Zhizhuo Award, sponsored by CSGPC, was conferred to its inaugural winner Prof. Chris Gold at the Opening Ceremony.

After the Opening Ceremony, the participants were invited to a brilliant evening at the central garden of the BICC for a fine welcome reception. In the pleasant atmosphere and with the accompanying melodious traditional Chinese music, the participants had the chance of meeting old acquaintances, making new ones and exchanging news and views.

One week before the official opening of the Congress, the 3rd ISPRS Summer School was held jointly with the Chinese GIS Doctoral Students Forum at Nanjing Normal University. The two events gathered over 200 lecturers and participants from around the world. On July 2-3, nine tutorials and six workshops were held at the Congress venue. There were 158 attendees to the nine tutorials and 411 attendees to the six workshops.

The General Assemblies, which form the focus of the Congress for the National Delegates and Advisers from each Ordinary Member of ISPRS, were held on July 3, 5, 7 and 9 to determine the policy of the Society and to provide the Council with the authority for all significant decisions. The four meetings of the General Assembly formed a vital part of operation of ISPRS, not only electing the office holders for the next four years but also ensuring that the elected Council carries out the

democratically determined wishes and policies of the Ordinary Members.

The eight ISPRS Technical Commission Presidents for 2008-2012 were elected at the General Assembly as follows:

TCI	Canada	Naser El-Sheimy
TCII	Hong Kong, China	Wenzhong Shi
TCIII	France	Nicolas Paparoditis
TCIV	USA	Marguerite Madden
TCV	UK	Jonathan Mills
TCVI	Netherlands	Martien Molenaar
TCVII	Austria	Wolfgang Wagner
TCVIII	Japan	Haruhisa Shimoda

The bid from Australia to host the ISPRS 2012 Congress in Melbourne was approved by the General Assembly.

The ISPRS Council for 2008-2012 were elected, appointed or ratified as follows:

President	Orhan Altan, Turkey
Secretary General	Chen Jun, China
Congress Director	Cliff Ogleby, Australia
Treasurer	Mike Renslow, USA
First Vice President	Ian Dowman, UK
Second Vice President	Ammatzia Peled, Israel

Lena Halounova, Czech Republic was elected Chairman of the Financial Commission and the two remaining posts on the Commission were filled by Marie-Jose Lefevre-Fonollosa, France and Myriam Ardila, Columbia.

Necessary amendments to ISPRS Statutes and Bylaws were also duly ratified. Fellowship was added as a new type of membership to fill the gap between awards and Honorary Membership. The five members of the Fellowship Committee were elected including Kohei Cho (Japan), Petros Patios (Greece), John Trinder (Australia), Marguerite Madden (USA) and Gottfried Konecny (Germany). The Regional Representatives of the Council were appointed including Olajide Kufoniya (Nigeria) for Africa, Myriam Ardila-Torres (Columbia) for South America, and Suvit Vibulsresth (Thailand) for South-east Asia.

The Beijing Declaration, the first of its kind in the history of ISPRS, was passed by the General Assembly. The declaration is a formal statement of the ISPRS mission to promote the peaceful use of geo-spatial technology for the benefit of society and

the environment. Highlighting how ISPRS can help to solve some global problems, the Declaration calls on the international community to support scientific research and development, promotes the sharing of data and technology, and encourages cooperation and collaboration between scientists, governments, public and private sectors, NGOs and international organisations.

Thanks to the support of ISPRS Council, the Chinese

Government and all the participants, the Beijing Congress successfully followed the tradition of ISPRS Congresses: Informative, Special, Progressive, Relaxed and Successful. With plenty of academic and cultural events, the Congress was enjoyed both technically and socially by those who attended it.

This volume has been prepared to give you detailed information on the XXI ISPRS Congress in Beijing in 2008.

# **ISPRS**

2008

## **ISPRS 2004 - 2008**

The ISPRS Council

Technical Commission Presidents

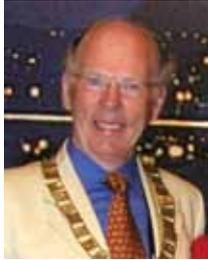
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### Commission I - Terms of Reference

- Design and realization of digital aerial and spaceborne missions for Earth observation;
- Design, construction, characterization, and installation of imaging and non-imaging sensors (including Optical, IR, AR, IFSAR, lidar, etc.);
- Standardization of definitions and measurements of sensor parameters;
- Integration of imaging and non-imaging sensors with other relevant systems;
- Geometric and radiometric properties, quality standards, and factors affecting data quality;
- Test, calibration and evaluation of sensors (including laboratory, in-flight, inter-calibration and test fields);
- Integrated platform guidance, navigation, positioning and orientation;
- Data reception and pre-processing;
- On-board preprocessing of data and autonomous systems;
- Systems and media for recording sensor data, auxiliary data (time, position, attitude, etc.) and film scanners;
- Image and non-image data transfer standards.

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#### WG I/1 Terms of Reference

- Techniques for laboratory calibration of sensors;
- In-flight radiometric and geometric calibration and validation of sensor systems;
- Establishment and utilization of existing and planned Cal/Val test sites;
- Sensor system parameter standards in relation with appropriate ISO Technical Commissions and projects;
- Managing the Joint ISPRS/CEOS Task Force on Calibration and Validation;

- Integrated activities between Cal/Val experts and data users;
- Overview of sensor-specific at-surface optical properties and temperature products;
- Collaboration with WG VII/1 on Cal/Val issues linked with definitions and measurements of Spectral Signatures.

## **WG I/2: SAR and Lidar Systems**

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## **WG I/2 Terms of Reference**

- Calibration and validation, specifications and formats of SAR and lidar data.
- Evaluation and assessment of systems for processing SAR and lidar data.
- Systems for generation and editing of DEMs from InSAR and lidar.
- Multi-frequency SAR, polarimetric InSAR, multi-pulse and full waveform lidar, array sensor systems.
- Systems for integration of InSAR, lidar and optical systems.
- Data quality and performance validation of SAR and lidar systems.
- Liaison with external groups such as CEOS, IEEE-GRSS,

ASPRS lidar Committee and EuroSDR.

## **WG I/3: Multi-platform Sensing and Sensor Networks**

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## **WG I/3 Terms of Reference**

- Study of capabilities of multi-platform sensing and sensor networks.
- Theory, technology and application in support of integrated multi-platform sensing and sensor networks and sensor web.
- Integration of imaging and non imaging sensors for sensor networks.
- Interoperable communication and networking of in-situ and remote sensors.

- Sensor data and parameters transfer standards, through participation in ISO TC 172 and OGC.
- Autonomous sensor and platform control.
- On-board data processing.

#### **WG I/4: Airborne Digital Photogrammetric Sensor Systems**

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#### **WG I/4 Terms of Reference**

- Collaborate with EuroSDR in the development of commonly accepted procedures for the calibration and testing of airborne digital photogrammetric sensor systems.
- Radiometric/geometric evaluation and cost/benefit performance of photogrammetric products resulting from airborne digital sensor systems.
- Develop workflow guidelines for suitable deployment and application of airborne digital photogrammetric sensor systems and their integration with other imaging and non-imaging sensors.
- Liaise with IC WG I/V on the development and evaluation of light payload digital photogrammetric sensor systems specific to unpiloted aerial vehicles (UAVs).
- Compile a comprehensive on-line searchable database of airborne digital photogrammetric sensor systems.

#### **WG I/5: Geometric Modelling of Optical Spaceborne and DEM generation**

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**WG I/5 Terms of Reference**

- Comparison of existing and evolving algorithms for geometrical modelling of space images under operational conditions including direct georeferencing capabilities and special conditions for 2- and 3- line sensors.
- Extrapolation of the previous comparisons (outside the area of the control points), analysis and report for each space imaging system.
- Intensified and detailed study on the accuracy and cost effectiveness of various DEM data acquisition techniques.
- Identification and cataloguing of international test sites for inter-comparison and evaluation of different DEM acquisition methods based on space information.
- Geometric quality requirements for advanced optical systems derived DEM.

**WG I/6: Small Satellites****Chair****Ugur Murat Leloglu**

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**WG I/6 Terms of Reference**

- User requirements for designing and realizing small satellite missions, including constellations, for Earth observation.
- Inventory of small satellite missions for Earth observation and system performances.
- Assessment of the benefits of small satellites compared to other sources of information.
- Implementation of a forum for industrial and developing countries to share their results, experiences and recommendations.
- Cooperation with WG VI/3 for technology transfer to developing countries.
- Future trends in the development of sensors and platform, especially for small satellites.

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navigation technologies including: GPS, INS, dead reckoning, active and passive image/signal based positioning and navigation.

- Development and integration of vehicle navigation sensors and sensor networks.
- Research and development of algorithms that support autonomous navigation.
- Development and applications of robot navigation systems, driver assistance systems for land vehicles, and Unmanned Aerial Vehicles (UAV).
- Demonstration of state of the art autonomous navigation systems in working environments.

**IC WG I/V Terms of Reference**

- Design and development of autonomous vehicle

## Commission II - Theory and Concepts of Spatio-temporal Data Handling and Information

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- System integration and modeling aspects for data and geoinformation processing
- Interoperability of heterogeneous spatial information systems
- Semantic and geometric integration of heterogeneous spatial information
- Communication and visualization of spatial data
- Data mining, filtering, retrieval and dissemination
- Spatial data quality and spatial model quality

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**Commission II - Terms of Reference**

- Fundamentals of spatial database design, spatial data structures, spatial analysis and geostatistics, spatial querying, spatial reasoning, spatial and temporal modeling
- Aggregation, generalization, abstraction and rendering of image and vector data
- Spatial decision support systems
- Processing, analysis and modeling of multi-dimensional geospatial data

**WG II/1 Terms of Reference**

- Spatial and space-time data models and structures
- Mobile non-point object modeling
- Spatio-temporal relationships
- Space-time topology

## **WG II/2: Spatial Reasoning, Analysis, and Data Mining**

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### **WG II/2 Terms of Reference**

- Spatial reasoning processes
- Information discovery in spatial databases
- Spatial analysis and statistics
- Spatial data mining

### **WG II/3: Multiple Representations of Image and Vector Data**

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### **WG II/3 Terms of Reference**

- Generalization and data abstraction of vector, raster and surface data, as well as related to semantics
- cartographic and model generalization
- generalization and simplification of digital surface data
- semantic abstraction levels
- Object representations for MRDB (Multiple Resolution/Representation Data Bases)
- data in various levels of resolution
- data in various thematic presentations
- link structures between individual objects of different representations
- Matching of image and vector data via different scales and themes
- automatic determination of appropriate abstraction level, where data sets are comparable
- matching taking semantics and geometry into account
- Development of multi-scale and multiple representations analysis tools, i.e. analysis operations that make use of the MRDB-structures

### **WG II/4: Spatial Planning and Decision Support Systems**

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**WG II/4 Terms of Reference**

- Theory, concepts design and development of Spatial Planning Support Systems (SPSS)
- Modeling Spatial planning processes
- Suitability assessment, site selection, location/ allocation and resource allocation problems
- Integration of bio-physical and socioeconomic models
- Design and development of Planning/Spatial Support Systems (PSS, SPSS)
- Theory, concepts, design and development of Spatial Decision Support Systems (SDSS)
- Theory concepts and application of Spatial Multiple Criteria Decision Analysis (SMCDA) in single and group environment
- Theories and concepts of decision supports using vague information
- Theory and application of knowledge-based systems
- Design and development of Spatial Decision Support Systems (SDSS)
- Design and development of Collaborative Spatial Decision Support Systems (CSDSS)
- Theory, concepts, design and development of Integrated Planning and Decision Support Systems (IPDSS)

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**WG II/5 Terms of Reference**

- Communication of spatial information
- Geovisualization (including the Web)
- Novel methods and tools for uncertain data

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### **WG II/6 Terms of Reference**

- Ontologies and geosemantics
- Semantic and geospatial data(base) interoperability
- Geo-spatiotemporal knowledge representation

### **WG II/7: Quality of Spatio-temporal Data and Models**

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### **WG II/7 Terms of Reference**

- Quality control for spatio-temporal data
- Uncertainty propagation in spatial analysis

- Presentation of quality information by metadata in GIS
- Quality of spatio-temporal models
- Models for quality of spatio-temporal data

### **INTER-COMMISSION (IC) WG II/IV: Dynamic and Multi-dimensional Systems and Applications**

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### **IC WG II/IV Terms of Reference**

- Continue the series of ISPRS workshops on Dynamic and Multi-dimensional GIS (DMGIS)
- Research on the development of dynamic GIS, especially for marine environment
- Research on the development of multi-dimensional GIS (e.g. true 3-Dimensional GIS)
- Develop methodology and algorithms for dynamic operations in GIS
- Research on the design and development of databases for dynamic and multi-dimensional GIS
- Enhance the collaboration of with the communities of "Spatial Data Handling" and "Computational Geometry"

## Commission III - Photogrammetric Computer Vision and Image Analysis

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### Commission III - Terms of Reference

The goal of the work in Commission III is to design, develop and evaluate mathematical models and methods for automatic,

- orientation and calibration of images,
- surface reconstruction,
- fusion of multi-modal data,
- processing and interpretation of laser range data,
- interpretation of images and
- image sequence analysis with emphasis on
- integration of geometry, statistics and semantics,
- modeling of spatial objects and temporal events,
- modeling context,

- scale behaviour of appearance models,
- use of graphical models, especially Markov random fields and Bayesian networks.

### WG III/1: Automatic Calibration and Orientation of Optical Sensors

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### **WG III/1 Terms of Reference**

- To promote within ISPRS more or less fully automatic methods for calibration and orientation without requiring markers. Current state-of-the-art methods are to be tested with respect to general applicability and robustness. Thereby, a further refinement and robustification of these methods is to be fostered  
- To provide various test data sets for image calibration/orientation tasks and invite researchers to evaluate their algorithms against known ground truth data with respect to general applicability and robustness.

### **WG III/2: Surface Reconstruction**

#### **Chair**

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### **WG III/2 Terms of Reference**

- To promote more or less fully automatic methods for surface reconstruction. Current state-of-the-art methods with respect to general applicability, reliability and performance are to be tested.  
- To provide various synthetic and real test data sets for surface reconstructions tasks and invite researchers to evaluate their algorithms against known ground truth data.

### **WG III/3: Processing of Point Clouds from Laser Scanners and Other Sensors**

#### **Chair**

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### **WG III/3 Terms of Reference**

- To analyse point clouds from laser range finders, but also from multiple view image matching as basis for surface and object reconstruction as well as interpretation. Special problems to be addressed are segmentation and filtering, generation of digital surface models and digital elevation models, earth surface characterization, and automated as well as semi-automated extraction of objects from multiple sources (close range and aerial scans, RGB, NIR and others). There is a close cooperation with the WG on 'Surface and object reconstruction from terrestrial laser scanners'.

### **WG III/4: Automatic Image Interpretation for City-Modelling**

#### **Chair**

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### **WG III/4 Terms of Reference**

- To develop and analyse various methods for automatically and efficiently generating high resolution 3D-city models, integrating all types of topographic features, especially buildings and vegetation. Problems addressed are the interpretation of the aerial, space borne and terrestrial image, laser, and (In)SAR data possibly together with information from traditional cartographic products, CAD models, and urban GIS, automatic as well as semi-automatic generation of urban models with level-of-detail (LOD) and inferred attribution including analysis of the trade-off between geometry and radiometry/texture for visualization and the assessment of efficiency and quality of techniques for extraction of buildings and vegetation and their dependence on the quality of the input data.

### **WG III/5: Models and Algorithms for Road Extraction and Traffic Monitoring**

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- To develop, implement, and test models and strategies for automated 2 1/2D and 3D road extraction from optical, radar, and laser data. Particular areas of interest are the modelling of to model road crossings for data interpretation, the extraction of road attributes, to develop and test algorithms for detection and velocity estimation of methods for micro- and macro-scale traffic monitoring.

**INTER-COMMISSION (IC) WG III/V: Image Sequence****Chair****Marc Pollefeys**

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- To promote research in the following topics: tracking single and multiple objects, ego-motion determination for navigation, object and event reconstruction from single and multiple video streams, camera and camera network calibration from video sequences including cameras with non-standard geometry, object identification from video sequences.

## Commission IV - Geodatabases and Digital Mapping

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### Commission IV - Terms of References

- Development, access and management of spatio-temporal databases
- Spatial data infrastructures
- Image-based geo-spatial databases
- Data libraries, data clearinghouses, data warehouses, distributed archives and access to remote data sources, including metadata and digital data standards
- Web based access, retrieval and dissemination of spatial data, including web-based location-based services
- Integration of spatial information systems and image analysis for database-driven change detection, data capture and updating
- Dynamic spatial information systems, spatial data revision and versioning
- Interfacing 3D models with facility management systems
- Database generation for digital topographic and thematic mapping (including Ortho-images and digital terrain models)
- Digital landscape modelling and visualization, and large scale urban models
- Global environmental databases and mapping
- Extraterrestrial mapping and spatial information systems
- Analysis of systems and their components for automated and semi-automated digital mapping and geo-information systems

- Analysis of industry needs and design of systems for production and update of Geo-information

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### WG IV/1 Terms of Reference

- Development and management of multi-scale national, regional and global databases
- Data harmonisation and synergy approaches of multi-scale vector data and imagery
- Integration of spatial data with socio-economic and environmental data for various geographic information services
- Standards for content, access, evolution and update of data framework
- Development of comprehensive metadata, quality evaluation procedures and their standardization
- Cooperation and Liaison with GSDI, WGISS, ICA, OGC and ISO

## **WG IV/2: Image-based Geospatial Information Management**

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### **WG IV/2 Terms of Reference**

- Characteristics of Image- and Video-Based Spatial and Temporal Databases
- Content-Based Indexing, Querying, Data Mining, and Information Retrieval in Image- and Video-Based Geospatial Databases
- Spatio-Temporal Imagery Database Management and Organization
- Managing Uncertainty and Redundancy in Large Collections of Imagery
- Geospatial Information Management in Sensor Networks
- Automated Semantic Annotation of Imagery, and Image-Derived Multimedia Metadata
- Imagery-Enriched Virtual Reality Models as GeoSpatial Databases
- Collaboration with TC II and the relevant Special Interest Groups (e.g. SIGMOD, SIGIR, SIGKDD) of the Association for Computing Machinery (ACM).

## **WG IV/3: Automated Geo-spatial Data Acquisition and Mapping**

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### **WG IV/3 Terms of Reference**

- Evaluation and development of semi-automated and automated algorithms for update, change detection and quality control
- Facilitation of the integration of these algorithms into digital photogrammetric and GIS workstations
- Adaptation of update processes to increasingly complex data models
- Development of advanced techniques for implementing "near-real-time" mapping
- Collaboration with ISPRS TC II and WG IV/1, IV/2, IV/8 with Euro SDR (formerly OEEPE) and ICA Commission on Updating and Versioning.

#### **WG IV/4: Landscape Modelling and Visualisation**

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##### **WG IV/4 Terms of Reference**

- Assessment of remote sensing data for generating and visualizing landscape and models
- Integration of multi-source and multi-scale data in local and regional landscape modelling and visualization applications
- Application of dynamic models for integrating multi-temporal landscape data sets
- Application and assessment of advanced visualization, virtual reality and multimedia methods for 2-D, 3-D and 4-D mapping tasks in stand-alone or web-based environment

##### **WG IV/5: Web-based Geo-information Services and Applications**

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##### **WG IV/5 Terms of Reference**

- Web-based geo-spatial data processing, services and applications
- Web-based geo-spatial technology integration
- Adaptation of GRID computing technology for Web services
- Development of adaptive visualizations of spatial information
- Applications of web-based 3D GIS and collaborative geographic visualization
- Application modelling and development of web geo-spatial data processing and services
- Cooperation with related commissions and/or working groups, ICA (Internet and Mapping Commission), WGISS, etc

##### **WG IV/6: Location Based Services**

##### **Chair**

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**WG IV/6 Terms of Reference**

- Concepts and data models for LBS, including data structures, formats, compression techniques, 3D LBS and streaming issues
- Processes for real time integration, generalization, updating and visualization of spatial information supporting mobile applications
- LBS system architectures, interoperability, communication technologies and networks
- Advances in mobile positioning, location management, tracking, billing, logistics and emergency services
- Development of personalized mobile services and intelligent agents
- Service content, acquisition and update of non-spatial and spatial content, content management and integration of user content, location enabling and location aware services, info mobility services
- Presentation and user-interaction issues of LBS, usability, mobile interface design, cartographic and multimedia aspects
- Value added services, new applications fields and legal aspects of LBS
- Cooperation with related working groups of ICA; IAG, and others (tbd)

**WG IV/7: Extraterrestrial Mapping****Chair****Jürgen Oberst**

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**WG IV/7 Terms of Reference**

- R&D for advanced techniques in data acquisition, processing, and analysis pertaining to the mapping of celestial bodies
- Definition or evaluation of reference systems, coordinate systems, map sheet definitions, etc. and their standardization
- Development of spatial information systems to support extraterrestrial exploration and science
- Web based delivery of extraterrestrial map products and GIS data
- Cooperation with related working groups viz. IAU, NASA, ESA, ISRO, JAXA and other space organisations and liaisons with the ICA Commission on Planetary Cartography

**WG IV/8: Spatial Data Integration for Emergency Services****Chair****Sisi Zlatanova**

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**WG IV/8 Terms of Reference**

- Integration of 3D GIS and intelligent image analysis systems for emergency management in urban environments
- Application of low-cost and real-time digital imaging and mobile mapping technologies for emergency response
- Application of 3D data structures, algorithms, and standards for emergency data management and exchange
- Geo-ontology and semantics for emergency response
- Innovative knowledge-based systems for browsing and analysis in distributed environments
- 3D visualization of scenes and situations (including indoor) on different mobile front-ends
- Analysis of emergency management needs for production and updating of spatial information

**WG IV/9: Mapping from High Resolution Data****Chair**

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**WG IV/9 Terms of Reference**

- To investigate the update of topographic vector datasets; digital terrain models; ortho-images and thematic (land-cover) datasets from high-resolution imagery
- To investigate how synergy may be achieved between the various high resolution and other sensors, for topographic and thematic mapping
- To determine methodologies for the integration of mapping data with high resolution images, to aid in the extraction of terrain information
- In collaboration with ISPRS Working Groups I/4 (airborne digital photogrammetric sensor systems), I/5 and III/4 and to evaluate the information content and accuracy of the new high-resolution sensors
- To contribute to work on standardising the description of raster and vector contents of digital maps

# Commission V - Close-Range Sensing: Analysis and Applications

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## Commission V - Terms of Reference

- Investigation of systems and algorithms for real-time imaging
- Development, evaluation and promotion of vision metrology technology with special consideration of CAD/CAAD and spatial information systems
- Integration of three-dimensional modeling concepts into image analysis processes
- Integration of multiple sensors and data fusion for advanced object extraction
- Design and development of image sequence analysis procedures
- Development of vision-based techniques for visualization, virtual environments and animation
- Support and promotion of a variety of existing and potential applications, such as industrial, heritage, mobile mapping, medical, biomechanics and robotics

## WG V/1: Industrial Vision Metrology Systems and Applications

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## WG V/1 Terms of Reference

- Passive and active vision systems for industrial metrology, automation in vision metrology, image engineering
- Multi-sensor and hybrid systems
- Sensor and system calibration, accuracy assessment and verification, discussion of standards
- Free-form surface measurement techniques, illumination and projection methods (structured light, illumination algorithms)
- On-line and real-time systems, dynamic and high-speed processes
- Machine vision, industrial quality control and industrial robotics
- CAD/CAM integration and modelling, use of domain knowledge for automation
- New application fields
- Cooperation with CMSC (Coordinate Metrology Systems Conference) and national/international standards organizations
- Integration of system manufacturers and service providers

## **WG V/2: Cultural Heritage Documentation**

### **Chair**

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### **WG V/2 Terms of Reference**

- Development and integration of close-range vision techniques and spatial information systems for recording, mapping, 3D modelling and visualization of structures of architectural significance and objects of importance to the cultural heritage.
- Promotion of innovative technologies and development of new products in support of archaeology, architecture and conservation for imaging, data processing, modelling, visualization, archiving and information management.
- Integration of computer graphics with close-range vision techniques for digital archives or Virtual Reality museums.
- Development and integration of close-range imagery with aerial and satellite images, and spatial information systems to enhance 3D reconstruction and documentation of areas, monuments and buildings for cultural heritage.
- Development of strategies and best practices for long-time storage and archiving of digital imagery for documentation of Cultural Heritage.
- Development of low-cost and rapid techniques in documentation and monitoring of the cultural heritage.
- Development of standard procedures and products in cooperation with related disciplines.
- Promotion and use of Internet techniques, VR techniques and animation techniques to facilitate promotion of cultural heritage.
- Close cooperation with related disciplines, and with national and international groups (e.g. CIPA), as well as ISPRS WGs and regional groups.

### **WG V/3: Terrestrial Laser Scanning**

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#### **WG V/3 Terms of Reference**

- Automated techniques for sensor orientation, including practical evaluation of registration algorithms.
- Scene classification and feature extraction (in collaboration with WG III/3 - Vosselman/Brenner).
- Integration with other data sources, particularly imagery for texture mapping, and other sensors for observing exterior orientation elements.
- Modelling of systematic error sources and development of calibration procedures.
- Modelling laser scanner measurement processes internal and external to the instrument.
- Practical application of terrestrial laser scanners for engineering, cultural heritage recording, forestry and other applications.
- Collaboration with FIG Task Force 6.1.5 'Terrestrial Laser Scanning for Deformation Monitoring'.

### **WG V/4: Virtual Reality and Computer Animation**

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#### **WG V/4 Terms of Reference**

- Increasing the automation in VE contents creation; streamlining the process of creating complex environments from multiple data sources; defining and assessing accuracy requirements.
- Real-time visualization and interactive manipulation of detailed and highly textured surfaces; defining and assessing realism and level of details requirements.

- Use of photogrammetric and computer vision techniques for the dynamic analysis of human motion and the animations of virtual characters.
- Promotion of VR applications from reconstructed 3D scenes and human characters, requiring 3D models created with photogrammetric techniques, or with other integrated techniques.
- Location based services (combination of mobile computational capabilities, imaging capabilities, positioning devices and network access), applications for virtual and augmented reality techniques and mobile information systems.
- Collaboration with computer graphics, computer vision, medical/biomedical engineering, human/apparel engineering, and ergonomics communities; cooperation with CIPA, ISB and ACM-SIGGRAPH.

#### **WG V/5: Development in Image Sensor Technology**

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#### **WG V/5 Terms of Reference**

- Design, characterization, calibration and evaluation of imaging sensors for close range photogrammetry and terrestrial application.

- Evaluation of image sensors (CCD, CMOS, IR-Bolometer), thermal systems and time-of-flight based range image sensors.
- Evaluation of non-standard imaging principles (panoramic cameras, fisheye systems, catadioptric sensors and other omni-directional vision techniques).
- Sensor and system integration, application of sensor networks.
- Geometric and radiometric properties of image data, quality standards, and factors (environmental and others) affecting data quality.

#### **WG V/6: Medical Image Analysis, Human motion and Body Measurement**

##### **Chair**

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#### **WG V/6 Terms of Reference**

- Research and development in techniques and systems for analysis and 3D reconstruction in medical imaging, dentistry, and biomaterial engineering, biomedical and biomechanical engineering, tele-medicine, advanced 3D computer vision techniques and medical VR/AR.
- Research and development in techniques and systems for analysis, 3D reconstruction and applications in sport medicine and fitness (e.g. motion capture, human gait analysis, full body measurement, shape tracking) and face and expression analysis.

- Vision techniques in biometry research, security applications and forensics.
- Applications of 3D surface measurement techniques for medical applications (orthodontics, prosthetics, orthopedics, plastic surgery, reconstructive medicine, forensic medicine, dentistry, ORL, cosmetics).
- Applications of 3D motion capture techniques for clinical motion analysis, registration of patient-specific data.
- Adaptation of photogrammetric techniques for geometric modelling and (self-) calibration of X-ray and tomography systems.
- Cooperation and collaboration between ISPRS and the communities of medical/biomedical engineering, human/user interface development and animation.

#### **INTER-COMMISSION (IC) WG V/I: Integrated Systems for Mobile Mapping**

##### **Chair**

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**IC WG VII Terms of Reference**

- Integrated Navigation systems for direct georeferencing.
- Integration with other data sources, in particular laser scanners data.
- Data fusion of land and airborne mobile mapping systems.
- Emerging intelligent processing techniques.
- Future trends in the development of ISMM and Mobile Mapping Systems (MMS).
- New areas of ISMM applications.

## Commission VI - Education and Outreach

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- Quality enhancement of content and format of ISPRS publications and Internet web site (WG4).

**WG VI/1 Educational Frameworks and Methodologies****Chair****Henrik Haggren**

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**Commission VI - Terms of Reference**

- Promotion of education and training at fundamental, advanced and professional levels (WG1, 3),
- Promotion of technology transfer, considering regional needs and resources (WG3),
- Computer-assisted teaching and training, and distance learning (WG1, 2),
- Innovative techniques for information dissemination on the Internet (WG4),
- Promotion of student consortium and innovative outreach activities (WG5),
- Assistance of the Council in promotion of ISPRS activities in the regions (WG3),

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### **WG VI/1 Terms of Reference**

- Investigation, evaluation, and clarification of national and international frameworks of education in terms of legislation and accreditation
- Assessment of methodologies for optimizing various ways of education including school education, life-long education, re-education of senior engineers, and international exchange in education
- Promotion of scientific publications in our fields and collection and dissemination of respective bibliographic information
- Development of connections with international organizations such as FIG, ICA, UN for investigating and evaluating the international frameworks on education

### **WG VI/2 E-learning**

#### **Chair**

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### **WG VI/2 Terms of Reference**

- Collection, analysis, dissemination and promotion of material, software and data (hardcopy and/or softcopy) for e-learning including computer assisted teaching and distance learning.
- Investigation of the role of e-Learning in modern education and training such as material, methodologies and tools.
- Assessment and evaluation of highly interactive multimedia materials and their use in tertiary level courses in remote sensing, photogrammetry and SIS.
- Organization of the software contest CATCON for promotion and dissemination of free educational software.

### **WG VI/3 International Cooperation and Capacity Building**

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## **WG VI/3 Terms of Reference**

- Development of connections with international organizations such as CEOS for wider promotion of education in the field of photogrammetry, remote sensing and SIS.
- Development of matrices of joint activities on capacity building, including technology transfer and training, with ISPRS Regional Members and other international organizations such as UN, especially for developing countries.
- Identification of channels for international cooperation in technology transfer and training and stimulation of international and regional organizations to support and fund activities promoted by ISPRS (in co-operation with the Council).
- Assessment of restrictions to international collaboration in capacity building resulting from national and regional legal educational frameworks (in terms of accreditation and certification) and ways to address them.
- Collaboration with WG I/6 on technology transfer related to small satellites

## **WG VI/4: INTERNET RESOURCES AND DATASETS**

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## **WG VI/4 Terms of Reference**

- Identification, collection, evaluation and dissemination of information on Internet resources, and datasets which are useful for education in the field of remote sensing, photogrammetry and spatial information sciences.
- Identification, promotion, and organization (in cooperation with educational and research institutions) of educational material (courses, tutorials, glossaries etc.) in electronic form.
- Assessment and evaluation of the ISPRS web site for further enhancement.

**WG VI/5 - PROMOTION OF  
THE PROFESSION TO STUDENTS**

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**WG VI/5 Terms of Reference**

- Promotion and support of international student activities including the ISPRS Student Consortium.
- Encouragement of active participation of students, especially undergraduate students, in ISPRS events and promotion of reduced fees and stipend for their participation.
- Collection and maintenance of a database on persons who are involved in the promotion of the profession to students, including the members of ISPRS Student Consortium and educators.

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**Special Interest Group Terms of Reference**

- Transfer of knowledge and technology by initiating and organizing seminars, tutorials and workshops with special consideration of the needs of developing countries.
- Development of teaching material for mobile, caravan-type teaching and training projects.
- Initiation and support of e-learning and remote teaching activities with focus on integration of high-tech elements in teaching and training.
- Support of events with strong participation of young scientists and students.
- Solicitation of support from potential sponsors (system manufacturers, government agencies, NGO/NPOs, foundations etc.) for the projects and activities.

# Commission VII - Thematic Processing, Modeling and Analysis of Remotely Sensed Data

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## Commission VII - Terms of Reference

- Relationship between spectral, radiometric and temporal properties of objects and surfaces, their physical and chemical properties and their variations;
- Image classification and analysis methodologies;
- Analysis of characteristics of multi-spectral, hyperspectral, multi-sensor, microwave and multi-temporal image data for extraction of attribute information;
- Methodologies of computer-assisted interpretation and analysis of remotely sensed data;
- Validation of data and information using laboratory and in-situ methodologies
- Improving atmospheric modeling for radiometric correction;
- Multi-source data fusion and integration techniques;
- Modeling of satellite data derived parameters;
- Global databases and determination of indicators of change for global modeling, monitoring and sustainable development;
- Integration of remote sensing and GIS techniques;
- Aerosol and particulate detection and identification.

## WG VII/1: FUNDAMENTAL PHYSICS AND MODELLING

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## WG VII/1 Terms of Reference

- Study the relationship of spectral, directional, temporal, and polarimetric properties of objects, as well as their physical and chemical properties and variations
- Research on advanced quantitative, physical based retrieval of biophysical and biochemical parameters
- Research of methods based on full spectral signatures using assimilation, inversion, and neural networks
- Study spectrodirectional ('the combination of multiple view angles with imaginary spectrometers') data acquisition potential and subsequent retrieval methods.

## **WG VII/2: INFORMATION EXTRACTION FROM SAR DATA**

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### **WG VII/2 Terms of Reference**

- Processing airborne and spaceborne SAR data
- Polarimetric SAR processing
- Interferometric SAR processing  
(INSAR, Differential InSAR, Permanent/caterer InSAR.)
- Bi-static SAR processing
- SAR signal processing, noise reduction

## **WG VII/3: INFORMATION EXTRACTION FROM HYPERSPECTRAL DATA**

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### **WG VII/3 Terms of Reference**

- Develop inter-operability of hyperspectral systems
- Develop methodologies for upscaling of in-situ measurements and downscaling of remote sensing measurements
- Develop calibration/validation procedures for hyperspectral data
- Study empirical Vs. physical models
- Ensure close collaboration with WG VII/1

## **WG VII/4: ADVANCED CLASSIFICATION TECHNIQUES**

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#### **WG VII/4 Terms of Reference**

- Image classification and analysis methodologies. New algorithms for the extraction of thematic information and the assessment of thematic quality. Look for synergism between classification approaches. Pixel wise classification, context analysis, texture analysis.
- Advanced and practical methodologies of Computer Assisted Interpretation (CAI) and Analysis of remotely sensed data. This should include expert systems and knowledge based tools to help the human interpretation of images.
- Enhanced methodologies for thematic data extraction using emerging sensor data sources, Multiple view sensors, thermal sensors.

#### **WG VII/5: PROCESSING OF MULTI TEMPORAL DATA AND CHANGE DETECTION**

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#### **WG VII/5 Terms of Reference**

- Analysis of characteristics of multi temporal image data for extraction of attribute information
- Methodologies of computer assisted interpretation and analysis of multi temporal image data
- Time series analysis and modeling based on multi temporal image data
- Temporal pattern recognition and modeling methodologies
- Methodologies for global monitoring, modeling and prediction
- Algorithm and methodology development for tracking moving objects
- Data integration and change detection for map updating

#### **WG VII/6: REMOTE SENSING DATA FUSION**

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#### **WG VII/6 Terms of Reference**

- Automatic registration of images with different sensor, different resolution, and different acquisition mode
- Concept study and methodology development of data fusion at feature and decision levels
- Multi-source data fusion and integration methodologies, especially optical and radar data fusion
- Application of data fusion to object recognition, classification and change detection, etc.

**WG VII/7: INNOVATIVE PROBLEM SOLVING  
METHODOLOGIES FOR LESS DEVELOPED  
COUNTRIES**

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**WG VII/7 Terms of Reference**

- Convert theoretical methodologies and models into practical operational ones suitable for Less Developed Countries
- Develop integrated methods for Remote Sensing and in-situ data collection for data-sparse regions
- Develop appropriate image processing methods using simple computer technology
- Develop appropriate methodologies for multi source, multi resolution (temporal, radiometrical) and spatial data fusion for new mapping and map updating in LDC
- Develop algorithms for improvement and calibration of airborne videography for geometrically less significant applications, for thematic map updating in LDC
- Assess the relevance of Remote Sensing methods developed by other Working Groups to Less Developed Countries
- Liaise closely with TCVI WG on Transfer and Technology, with other TC's on methodology development, and with regional ISPRS members such as SELPER, AARSE, EARSeL and AARS.

**INTER-COMMISSION (IC) WG VII/IV DERIVATION OF  
GLOBAL DATA, ENVIRONMENTAL CHANGE AND  
SUSTAINABILITY INDICATORS**

**Chair**

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**IC WG VII/IV Terms of Reference**

- Develop methodologies for generation and quality evaluation of global databases for global studies

- Develop algorithms for monitoring aspects of global change such as land use, land cover, land changes
- Evolve strategies for assimilating remotely sensed data into global models
- Stocktaking and compilation of existing and planned Global DB and identification of significant gaps and overlaps
- Development of environmental infrastructures for access and use as one of use case of Global DB
- Standardization, harmonization and integration of Global DB on national, regional and global levels and their promotion
- Development User Access the innovative user access interface for browsing an analysis through increase interoperability on distributed network, e.g. open global standard, 3D Geo-browser and Grid computing
- Develop algorithms, models and sustainability indicators for predicting changes in different eco-systems
- Methodologies for global monitoring, modeling and prediction
- Enhance international cooperation by identifying and generating common environmental sustainability indicators amenable to remote sensing with organizations such as ISCGM, WGISS, ICA, Digital Earth, IGBP

## COMMISSION VIII - Remote Sensing Applications and Policies

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### Commission VIII – Terms of Reference

- General consideration for all aspects
- Sustainable development
- Ecological and environmental considerations
- Human Impact
- Supporting
- Decision-making by providing useful information to the user in near real time on operational basis
- Forecasting
- Monitoring
- Solving problems and conflicts
- Topics
- Human settlements
- Hazards and disasters
- Land degradation and desertification
- Natural resources
- Geology, Geomorphology
- Water
- Arid lands
- Coastal zones and wetlands
- Ocean color and state
- Forests and Landscape biodiversity
- Agriculture and food production
- Atmosphere, climate and weather
- Regional correlated issues
- Policies and Treaties
- Collaboration with other Societies, organizations, International (regional) and national agencies and institutions.

### WG VIII/1: HUMAN SETTLEMENTS AND IMPACT ANALYSIS

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### **WG VIII/1 Terms of Reference**

- Application of improved interpretation and mapping methods for urban, sub-urban and peri-urban land-use in transition to help for better urban planning using aerial and high spatial resolution spaceborne data.
- Remote observations for monitoring urban environment and implementation of change detection algorithms for the study of urbanization structure and development processes.
- Use of RS & GIS for infrastructure development for rural and urban settlements.
- Study impact of urbanization, industrial growth and mega engineering structures on ecological and social environment, urban sustainability; tracking of disease vectors.
- Documentation, conservation and management of natural heritage and cultural landscapes in cooperation with UNESCO/ICOMOS/CIPA.
- Interface with IHDP.

### **WG VIII/2: HAZARDS, DISASTERS AND PUBLIC HEALTH**

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### **WG VIII/2 Terms of Reference**

- Generation of vulnerability and hazard zone maps for different type of disasters such as forest fire, cyclone, floods, drought, volcanoes, earthquake, land slides etc and Identification & assessment of potential risk zones.
- Integrate remotely sensed observation and communication strategies with enhanced predictive modelling capabilities for disaster detection, early warning, monitoring, damage assessment and Public Health in cooperation with CEOS, IGOS and other national, regional and international organizations and efforts.
- Development of disaster management plans for pre-, during and post disaster situations and enhance support for early warning systems and emergency events mitigation and management decision-making and.
- Foster the creation of more effective information systems to support disaster management activities; quick damage assessment; relief and rescue operations; and all environmentally-induced events that affect public health.
- Organize workshops and seminars for applying remote sensing data products to public health and other environmentally - induced events that may affect humankind.

### **WG VIII/3: ATMOSPHERIC, CLIMATE AND WEATHER RESEARCH**

#### **Chair**

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### **WG VIII/3 Terms of Reference**

- Summarize an overview of existing and planned observational systems, with focus on cloud and aerosol properties.
- Identify gaps in existing observational capacity for retrieving cloud and aerosol properties.
- Contribute to the definition of a system of space, air and in-situ observations and to refinements of models in collaboration with the World Meteorological Organization (WMO).
- Identify multi-sensor techniques for retrieving cloud and aerosol properties.
- Identify the needs of numerical weather and climate models for remotely sensed cloud and aerosol properties.
- Implement, enhance and define methods and techniques for better extraction and processing the information content of satellite data for weather and climate research.

### **WG VIII/4: MANAGEMENT OF TROPICAL ENVIRONMENTS RESEARCH**

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### **WG VIII/4 Terms of Reference**

- Identify tropical regions inherent problems related to remote sensing data acquisition and processing (cloudiness, lack of infrastructure...) and propose solutions.
- Review the potential and limitations of remote sensing and develop remote sensing applications for studying and monitoring tropical environments (mangrove, tropical wetlands, suburban areas...) and for specific issues found in tropical areas (epidemiology of vector-borne diseases, deforestation monitoring, topography through rain forest canopy...)
- Implement ground measurements to improve the understanding of sensor responses on tropical ecosystems

### **WG VIII/5: POLICIES, TREATIES AND DATA ACCESS**

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#### **WG VIII/5 Terms of Reference**

- Use of remotely sensed imagery by commercial satellites for the verification of treaties.
- Study the potential and limits of commercial satellite imagery with regard to transparency, data reliability and continuity of data availability.
- Analyzing present and future trends of national and international remote sensing programmes; remote sensing satellites and security; and policies.
- Coordinate ISPRS contributions to studies of applying remote sensing for international policies and treaties.
- Cooperate with other ISPRS working groups to support international cooperation and policy making for the implementation of optimum constellation of complementary satellites to meet Earth Observation requirements on a long term basis.
- Cooperate with IPAC and coordinate efforts to produce ISPRS white papers on space.

#### **WG VIII/6: COASTAL MANAGEMENT, OCEAN COLOUR AND OCEAN STATE FORECASTING**

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#### **WG VIII/6 Terms of Reference**

- Develop quantitative understanding of coastal processes, i.e., physical dynamics, delivery of land materials, particle dynamics, ecosystem structure, and carbon cycles.
- Study the impact of human activity on the coastal zones, with specific attention on wetlands, estuaries, and coral reefs.
- Monitor harmful algal blooms, including detection, understanding of factors which encourage formation. Development of control and mitigation measures.
- Further the conservation of marine ecosystems and bio-diversity, and study wild fisheries and other processes affecting stock recruitment and nursery habitats with development of indicators and monitoring of trends.
- Development of analytical algorithms for retrieval of bio-geo-chemical parameters, data merging, and for the improvement of coastal products;
- Foster the development of procedures and protocols for Integrated Coastal Zone Management using remote sensing and GIS techniques. Further the work on resolving the vertical datum, linking land and chart datum, for predicting tidal cycles;
- Modelling inter-comparison activities, especially for coupled 3D hydrodynamic and biological models that are needed to study the ocean carbon cycle.
- Support an initiative to demonstrate the value of remotely sensed imagery for accurately predicting site-specific tidal cycles, and other issues, in collaboration with the International Hydrographic Organization (IHO), International Ocean Color Coordinating Group (IOCCG) and the Global Ocean Observation Experiment group.

## **WG VIII/7: WATER RESOURCES SECURITY AND MANAGEMENT**

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### **WG VIII/7 Terms of Reference**

- Implementation of remotely sensed spectral data to monitor and investigate point and non-point discharge of pollutants into natural and man-made water transportation and storage system; for investigating sedimentation in reservoirs; and for any other contamination of water resources.
- Adoption of remotely sensed spectral data into GIS data bases for monitoring quality and quantity of water resources.

- Further the role of remote sensing and GIS data sources and spatial processing methods in sustainable development of water resources, water quality studies and planning continued availability.
- Integration of remote sensing and GIS for rainfall runoff modeling.
- Cooperate with ISPRS WG VIII/8, WG VIII/3 and other organizations on applications of remote sensing for snow and glaciers studies and the effect of climate change on water resources.

## **WG VIII/8: POLAR AND ALPINE RESEARCH**

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## **WG VIII/8 Terms of Reference**

- Identifying and conducting remote sensing initiatives supporting the International Polar Year (2007-2008)
- Improving the retrieval of geophysical parameters relevant to the different elements of the cryosphere
- Developing strategies and algorithms for assimilating remotely sensed data in models of polar processes
- Developing long-term records and studying on-going changes in polar and other ice-covered regions.e.g. changes in terrestrial polar ecosystems; ice sheet and glacier mass balance; and sea-ice cover.

## **WG VIII/9: ARID LANDS, LAND DEGRADATION AND DESERTIFICATION**

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## **WG VIII/9 Terms of Reference**

- Integrate remote sensing data, in-situ and other measurements into a GIS domain to monitor and facilitate study and research of: Dry and arid lands; spatial and temporal environmental changes in the arid environment; and Processes of land degradation and desertification,
- Conduct quantitative assessments of soil, rocks and organic matter from spectral measurements and contribute to the establishment of desertification indicators such as the SPAC (soil, plant, atmosphere, climate) and other concepts,
- Implementation of remote sensing data and GIS methodologies in support of: Sustainable development in arid lands,
- Generating alternate scenarios to facilitate monitoring and management of arid and dry lands; and for land resources assessment for fighting land degradation and desertification,
- Interact and cooperate with the International Geomorphological Association, The IGU Commission on Arid Lands (COMLAND) and other Interest groups and International bodies interested in arid lands, land degradation and desertification.

## **WG VIII/10: PRECISION FARMING AND SUSTAINABLE FOOD PRODUCTION**

### **Chair**

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**WG VIII/10 Terms of Reference**

- Protocols and methodologies to efficiently and economically provide satellite and aircraft based inputs to monitor crop vigor, diseases, and stresses for making spatial and temporal agricultural decisions that affect the security, quality, and profitability agricultural production.
- Integration of environmental parameters of agricultural production into GIS framework that allows for utilization of space-based inputs.
- The use of active sensors to evaluate and monitor biological and physical processes, important in agricultural management.
- Collaborate with industry, farming cooperatives, consultants and other end users to define real-time information needs that will enhance the decision making process and encourage further development of technologies.
- Collaborate with WG VIII/11 to improve analytical techniques and with international precision agriculture groups to sponsor workshops.

**WG VIII/11 SUSTAINABLE FOREST AND LANDSCAPE MANAGEMENT****Chair****Barbara Koch**

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**WG VIII/11 Terms of Reference**

- Further the automatization of forest information extraction from spectral imagery through improvement of procedures and models for inventorying and monitoring of forest resources, timber stock and biomass
- Study and promotion of forest biodiversity and sustainable management applications in respect to the convention on biodiversity with the amendments made at the Gothenburg and Johannesburg meetings
- Apply remote sensing techniques to support forest management tasks using forests as source for renewable energies
- Further development and implementation of algorithms to extract forest and other landscape information from airborne laser scanners and digital cameras data
- Join other ISPRS Working Groups in supporting actions to promote space segments focused on applications like forestry and agriculture
- Liaise with International Union of Forest Research Organizations (IUFRO), EARSeL (Forestry Group) EC working group on Future Needs of Research Infrastructures in Environmental Sciences and ICORSE

**WG VIII/12 GEOLOGICAL MAPPING, GEOMORPHOLOGY AND GEOMORPHOMETRY****Chair****Benoît Deffontaines**

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**WG VIII/12 Terms of Reference**

- Further the implementation of multispectral and hyperspectral remote sensing and their integration

into Spatial Information Systems for: Geological mapping; Establishment of Aged and facies geological and structural data bases; Advanced 3-Dimensional geological mapping

- Implementation of remote sensing data and spatial technology in support of studies such as: erosion processes (mountainous areas, tropical areas, arid and semi-arid soils); Littoral evaluation (temperate, tropical areas); Neotectonics; Dune stabilization and Motion (process, kinetics); and other geomorphological research

- Adoption of spectroscopy applications for mineralogical mapping

- Implementation of algorithms and methodologies to study and define bias-corrected parameters of remotely sensed observations (e.g. BRDF, physical and chemical crust, dust, structural and optical properties, etc.)

- Integrating and implementing remote sensing data into geomorphometry applications to visualize and represent: Digital terrain, surface and elevation models; Drainage networks; Hydrological network components; Neotectonics; Slips; Strikes; Plates; and other static and dynamic geological, topographical and geomorphological phenomena, objects and features.

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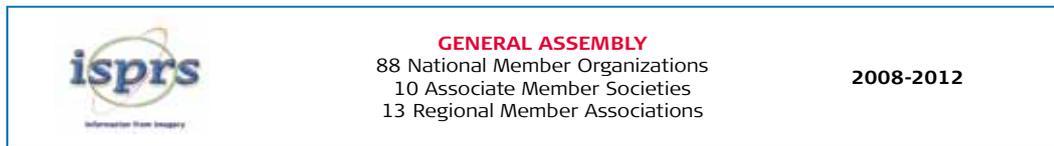
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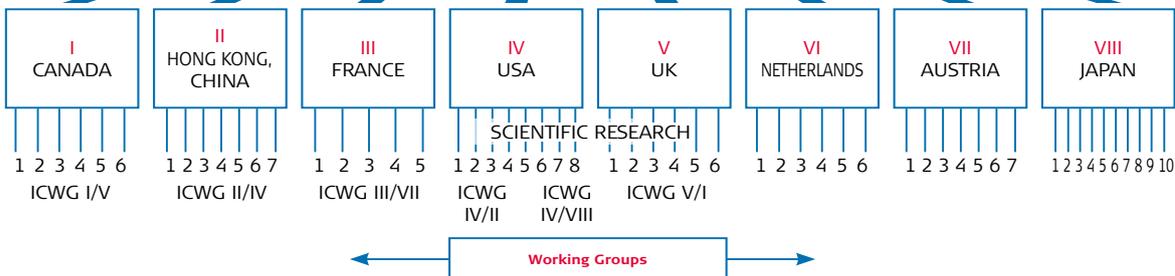


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## OPENING CEREMONY



SBSM Director General Lu Xinshe making welcome address at Opening Ceremony



Ian Dowman making welcome address at Opening Ceremony



CSGPC President Yang Kai chairing the Opening Ceremony



Peking Opera show at Opening Ceremony

# GENERAL ASSEMBLY



ISPRS General Assembly



ISPRS Council for 2008-2012 elected at the General Assembly



ISPRS Council at the General Assembly



National delegates at the General Assembly



Ian Dowman with Song Chaozhi, Li Deren and Yang Kai



Delegates casting ballots at General Assembly



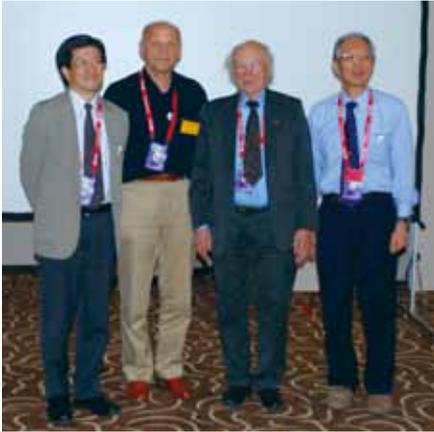
Orhan Altan making Secretary General's report at General Assembly

## SCIENTIFIC PROGRAMME



Pre-Congress Workshop

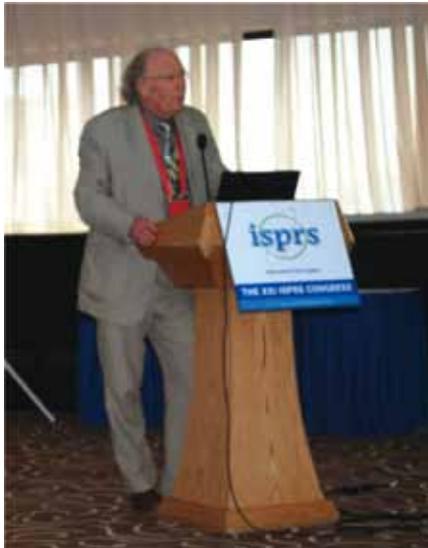
## YOUTH FORUM



Prof. Kohei Cho, Prof. Armin Grün (ETH Zurich, Switzerland), Prof. Gottfried Konecny (Hannover University, Germany), Prof. Shunji Murai (University of Tokyo, Japan)



Student Consortium Assembly



Prof. Ian Dowman, ISPRS President, at the ISPRS SC Assembly 2008



Walking the Great Wall can be straining but also enjoyable...



Representative from Leica Geosystems AG and ISPRS with authors of the YF best paper

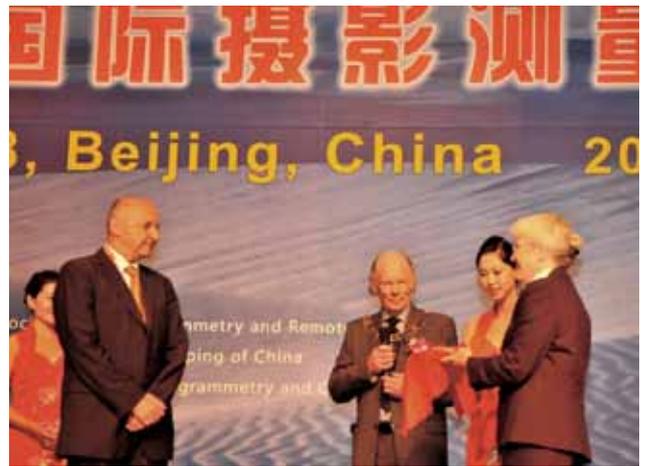


Some of ISPRS Youth forum participants after Closing Ceremony, Beijing 2008

## AWARDS



ISPRS Honorary Member - John Trinder (Australia) and Armin Grün (Switzerland)



The Brock Gold Medal - Armin Grün (Switzerland)



The Otto von Gruber Award - Matthias Butenuth (Germany)



The Wang Zhizuo Award - Christopher M. Gold (United Kingdom)



The CATCON Award



Youth Forum Best Papers Awards

# THE ISPRS FOUNDATION



# EXHIBITION



China booth at the Exhibition



## CLOSING CEREMONY



China handing over the ISPRS flag to Australia



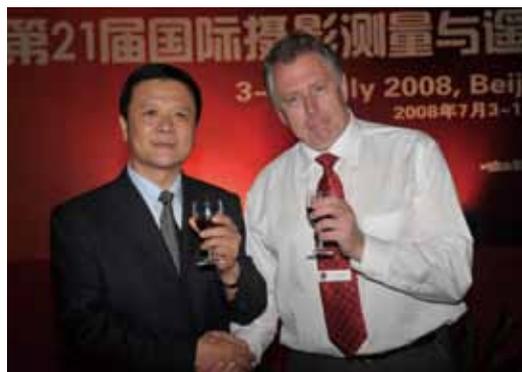
Chen Jun making Congress Director's report at Closing Ceremony



In-coming President Orhan Altan with Chain of Office and Out-going President Ian Dowman at Closing Ceremony



Incoming President Orhan Altan making an address at Closing Ceremony



Cliff Ogleby with LOC Chairman Song Chaozhi at Gala Dinner

# LOC



LOC members posing for a group photo



LOC staff cheering after a full day's work



LOC staff of Summer School



LOC staff and volunteers in rehearsal room

# **ISPRS**

2008

## **OPENING CEREMONY**

Programme of the Opening Ceremony

Welcome Address by Mr. Lu Xinshe, Vice Minister, Ministry of Land and Resources; Director General, State Bureau of Surveying and Mapping of China

Opening Speech by Prof. Ian Dowman, President of ISPRS

## PROGRAMME OF THE OPENING CEREMONY

- Silk Road for Information from Imagery  
Video Show
- Opening Address by CSGPC President Prof. Yang Kai
- Welcome Address by Vice Minister, Ministry of Land and Resources;  
Director General, State Bureau of Surveying and Mapping Mr. Lu Xinshe
- Opening Speech by ISPRS President Prof. Ian Dowman
- Presentation of Brock Gold Medal Award  
ISPRS President Prof. Ian Dowman  
ASPRS President Ms. Kass Green
- Presentation of Otto von Gruber Award  
ISPRS Secretary General Prof. Orhan Altan  
ITC Rector Prof. Martien Molenaar
- Presentation of U.V. Heleva Award  
Mr. Guy Perkins of ERDAS  
Mr. Arnout Jacobs of Elsevier
- Presentation of Wang Zhizhuo Award  
ISPRS First Vice President Prof. John Trinder  
CSGPC Vice President Prof. Li Deren
- Proposal for ISPRS Honorary Membership  
ISPRS President Prof. Ian Dowman
- Cultural Show
- Opening of the XXI ISPRS Congress by CSGPC President Prof. Yang Kai

# **WELCOME ADDRESS BY MR. LU XINSHE, VICE MINISTER, MINISTRY OF LAND AND RESOURCES; DIRECTOR GENERAL, STATE BUREAU OF SURVEYING AND MAPPING OF CHINA**

Distinguished ISPRS President Prof. Dowman,  
ISPRS Council Members,  
Friends, Ladies and Gentlemen,

First of all, on behalf of the State Bureau of Surveying and Mapping of China, I would like to extend my warm congratulations to the opening of the Congress and my sincere welcome to all the participants.

On the eve of the Beijing Olympic Games, scientists from over 80 countries and regions of the world are gathering in Beijing to attend the 21st ISPRS Congress to exchange and discuss the latest development and achievements in the photogrammetry, remote sensing and geospatial information sciences. This is significant for geospatial technology and geographic information to be used peacefully for the benefits of human beings.

Just before the opening of the Congress, Chinese Vice Premier Li Keqiang met with some of the Congress participants on behalf of the Chinese Central government. He introduced the important role of geospatial science in China and the efforts taken by China to promote the development of this science. He expressed the desire and resolution of the Chinese Government to take the path of peaceful development, and advocate and support the peaceful use of geospatial science to serve the interests of human beings. He indicated that the Chinese government will actively promote the international exchange and cooperation of geospatial science in the fields of climate change, environment protection, resources conservation, and disaster prevention and alleviation. He expressed his warm welcome on behalf of the Chinese Central Government to the participants and his appreciation to ISPRS for its contributions to promoting the development of geospatial science.

In modern society, science and technology has been a major driving force to support and lead economic development and progress of human civilization. The development of photogrammetry and remote sensing has continuously improved our ability and level of understanding the earth and bringing benefit to the people. Since the 1970s when the Chinese

scientist Prof. Wang Zhizhuo proposed the concept of full digital mapping, the State Bureau of Surveying and Mapping has been engaged in promoting the revolution of China's surveying and mapping technology. At present, digital surveying and mapping technology systems have been established in China. The national basic geographic information databases at 1:1,000,000, 1:250,000 and 1:50,000 scales, a number of provincial databases at 1:10,000 and city and county databases at larger scales have been built up. SBSM is now making efforts in the development of IT-based surveying and mapping system characterized by real time acquisition, automatic processing, on-line services, and socialized applications.

During the recent rescue work after the Wenchuan earthquake, SBSM swiftly built up monitoring system and data capture system for high resolution imagery of the disaster-hit areas by means of aerial photography, satellites and low altitude platforms. Images were instantly captured, processed and integrated with the existing geospatial information resources to produce maps and GIS. Altogether 53,000 sheets of topographic and image maps and 11TB geographic data were provided. These products not only provided timely services for the disaster relief, assessment and monitoring, but are also playing important roles in reconstruction site selection and planning, subsequent disaster monitoring and prediction, and reconstruction of infrastructures. The international community showed their sympathy and provided generous support to the Chinese government and people during the disaster relief process. Taking this opportunity, I would like to express my heartfelt thanks to the ISPRS council and the colleagues in the field of photogrammetry and remote sensing for their condolence and assistance to the Chinese Government and people after the earthquake.

SBSM always attaches importance to and supports international cooperation and collaboration in science and technology and takes an active part in the activities of ISPRS. We propose that the professionals in the fields of photogrammetry, remote sensing and geospatial sciences from both home and abroad further

strengthen international cooperation in basic and key technological research, promote data sharing for peaceful use and academic research, expand exchange and collaboration, improve understanding, and enhance cooperation to build a new silk road for information from imagery and contribute to the peace and interests of human beings and sustainable development.

Friends, Ladies and Gentlemen,

The 29th Olympic Games will be held in Beijing in a month. One World, One Dream, the slogan we put forward is meant to carry forward the Olympic spirit of

unity, friendship and peace, and promote understanding and friendship of the peoples of all nations through the Beijing Olympic Games. Welcome to Beijing to watch the Olympic Games. You are also welcome to tour around China to experience its fast development and magnificent culture.

I wish a great success of the 21st ISPRS Congress.

I wish all the best of your health and your work.

Thank you.

## OPENING SPEECH BY PROF. IAN DOWMAN, PRESIDENT OF ISPRS

Vice Minister Lu Xinshe,  
Congress Director Chen Jun,  
Distinguished Guests, Ladies and Gentlemen,

It is my great pleasure to welcome you all to the twenty first ISPRS Congress. I would immediately like to thank our Chinese hosts for the immense effort which they have put into organising this Congress. Professor Chen Jun is the person responsible for the organisation of the congress and he should take the credit for what I am sure will be a highly successful event. We must not forget that he has been supported by his National Steering Committee, Scientific Program Committee and Local Organising Committee and by many others working hard behind the scenes. In May, China experienced a severe earthquake in Sichuan Province and our deepest sympathy goes to all those who have suffered from this. The earthquake has had a major impact on many people in China including Chen Jun and his team, who have had to deal with this emergency as well as make final preparations for the Congress.

I would also like to thank my colleagues on Council and the Technical Commission Presidents who have also worked hard to produce an excellent programme.

A Congress such as this is more than a meeting of ISPRS members. It is also an opportunity to show our work to others and to look for opportunities to collaborate and I am delighted that we have with us many distinguished guests from other societies:

Stig Enemark, FIG

Bill Cartwright, ICA  
Bas Kok, GSDI  
Dorota Brzezinska, representing IAG

I would also particularly like to welcome those of you, particularly young people, who have been funded by the ISPRS Foundation, Congress travel grants, and Young Authors Awards. The ISPRS Foundation makes it possible for many people to attend the Congress, who would not otherwise be able to, and I hope that everyone will support the fundraising activities of the Foundation here in Beijing.

China is a very appropriate venue for the Congress. Twenty years ago we met in Kyoto, the first time that the Congress had been held in Asia; now we are back in Asia in a country which is having an immense impact in the world with its industrial expansion and rapid growth of Chinese cities. We look forward to learning more about these developments and to experience the ancient and modern culture of one of the oldest civilisation in the world.

I would like to pause here for a moment to remember those of our number who have passed away during the past four years, and also the victims of the recent Earthquake in China: Ted Blachut, Y C Lee, Georges Masson d'Autumne, Robin Lettellier, Madeleine Godefroy, C P Lo, Karl Kraus, and Alden Colvocoresses.

This is an occasion to which we look forward from the end of the previous Congress. We left Istanbul full of

enthusiasm for our society, with many ideas for new research, new activities and making new contacts and collaborations. Now we meet again to see whether these ambitions have been met. I promised in Istanbul to develop our science and to promote the Society in Africa, I would like to briefly review some of these activities.

Many of you have come here to find out about new developments and to recharge your batteries with new ideas for research and production: you should find plenty to provide that energy. The Technical Commissions and Working Groups have been very active. There have been many new developments and you will have the opportunity over the next few days to hear about these in detail. I would like to mention here some of the highlights of our work.

A key development which influences much of our work is new Earth observation satellites and the processing and application of the data which they produce. Satellites are smaller and more agile allowing accurate DEM generation to become operational. Digital aerial cameras are reaching full maturity and the number on the market is proving this; they also collect multispectral data and so are bridging the gap between photogrammetry and remote sensing. There is increasing use of airborne and terrestrial LiDAR systems and of SAR and software is being developed for information extraction, sometimes combined with image data. I am particularly pleased that people from NASA have approached us with a proposal for forming a working group on airborne science. Another exciting development is the area of platforms is Unmanned Airborne Vehicles – the operation of these UAVs which come in all shapes and sizes, and the processing of the data, provide new challenges.

Ground based mobile mapping systems are developing very rapidly to acquire panoramic or stereo imagery and also laser point clouds that can be used to enrich the content of 3D databases. The advent of 'true' 3D-cameras, will deliver time-resolved range images at video rate.

The development of new algorithms for feature extraction is allowing the generation of 3D city models and increasing use of image data for documenting cultural heritage. There is exciting progress in practical applications of hyperspectral data as a result of better geophysical models and fundamental research in spectral signatures. Multitemporal data and change detection is becoming a very important field of research

for disaster monitoring, security applications and for global change studies.

The delivery of data is an important issue for mapping agencies and server based GIS is becoming increasingly available. There are many important developments supporting this: open source software; research into ontologies; content-based indexing, querying, data mining and information retrieval, for example. Geovisualization is providing new opportunities to present information to a wider audience. Good progress is being made in true 3D, but more theory still needed.

We see geospatial information derived from imagery applied in many areas, both general and scientific, and the applications are increasing. I would like to single out one area in particular: this is the area of disaster management which includes prediction, emergency response and long term recovery. This is topical at the moment and I am delighted that we have been able to respond to the Sichuan Earthquake by adjusting the congress programme to include a special session on emergency response and Professor Deren Li will cover this topic in his plenary presentation.

In the area of education, progress has been made with construction of basic guidelines for assuring qualities of E-Learning software. The activities of the Student Consortium are expanding with a successful series of summer schools. There are many opportunities for young people here at the Congress and feel sure that they will be taken advantage of.

The General Assembly of ISPRS is meeting during the Congress. This is the supreme body of ISPRS and will elect officers for the next four years and discuss issues which will affect the way that the Society is administered. If you wish to make input to these discussions you should talk to your national delegate.

So for those especially interested in the science there is plenty to keep you busy for the next eight days. But ISPRS is not only concerned with research and production. Our mission also includes development of international cooperation for the advancement of knowledge, research, development and education in the photogrammetry, remote sensing and spatial information sciences, and to use this to contribute to the well being of humanity and the sustainability of the environment. The challenge is to fulfil this mission and to do this responsibly.

At one end of the scale Council is looking at ways in which ISPRS react to global warming and we have had contacts with the World Business Council for Sustainable Development to advance this process.

At the other end of the scale we all face a challenge: how to use our science to benefit society. The nine societal benefit areas of The Group on Earth Observations (GEO) are a good place to start and the mission of GEO is coordinating international efforts to build a Global Earth Observation System of Systems (GEOSS). This emerging public infrastructure is interconnecting a diverse and growing array of instruments and systems for monitoring and forecasting changes in the global environment. This "system of systems" supports policymakers, resource managers, science researchers and many other experts and decision-makers.

GEO is concerned with Earth observation, but we must apply the same principles to using other images. The ISPRS tag line is 'Information from imagery'; we must live up to this, but not only extract that information, we must make sure that it is used for the benefit of society. John Trinder raised this in his opening speech in 2004. So we should ask ourselves, here in Beijing: 'what have we done so far to benefit society'? And what can we do in the future. One thing is certain, we will be able to do more by collaborating with others, we must talk to scientists in other disciplines and tell them what imagery can do for them, and together we can go to decision makers and show them how science can help their society.

Collaboration is a very important key to success: effective progress in the future will depend on collaborative efforts. ISPRS has been developed a series of workshops on GEOSS through collaboration with IEEE and OGC and by working within ICSU, The

International Council for Science. The ICSU GeoUnions have influenced the work of ICSU, and I am delighted that we have been awarded a grant for Mapping GeoUnions to the ICSU Framework for Sustainable Health and Wellbeing. The Joint Board of Geospatial Information Societies has worked together and contributed to each others science programme and has set up a knowledge portal for African NMAs on the African Geospatial Information Research Network, AGIRN, and is working with GSDI for an international knowledge portal. We are managing a project within the International Polar Year. We must use the potential of working with other societies to meet the challenges facing our planet. I can think of other important areas where this can happen such as water, land reform and informal settlements.

During the Congress we will be preparing a statement, known as the Beijing Declaration which will set out the ISPRS response to the challenges facing us, and we will ask the General Assembly to endorse this for release to the press at the end of the Congress.

In conclusion I urge you to take advantage of all of the opportunities which this Congress has to offer. Chen Jun and his team have done a fantastic job in providing technical, scientific, commercial and social activities, and I thank him and his team again on behalf of you all. Now it is up to you to take what you can from the Congress, but bear in mind that science only brings benefits when it is responsibly harnessed to benefit society, and in the present day and age, with so many problems, society needs the skills which we have to offer, but we need to promote these skills and develop them by collaboration with other disciplines. Let us adopt the spirit of the Olympics, which follows ISPRS to Beijing, and promote universal harmony through science and peaceful collaboration.

# ISPRS

2008

## GENERAL ASSEMBLIES

Ordinary Member Delegates and Advisers to ISPRS General Assembly

Non-Voting Delegates and Advisers to ISPRS General Assembly

Agenda of ISPRS General Assemblies

Decisions of the General Assembly

Minutes of ISPRS General Assemblies

Report of ISPRS President Ian Dowman

Report of ISPRS Treasurer Stanley Morain

Report of ISPRS Journal Editor-In-Chief George Vosselman

Report of ISPRS Secretary General Orhan Altan

Report on Inter-Organizational Relations, Ian Dowman

Report of ISPRS Highlights Editor-In-Chief Orhan Altan

Report of ISPRS Webmaster Fabio Remondino

Report of ISPRS Book Series Editor Paul Aplin

Report of International Scientific Advisory Committee (ISAC)  
by Armin Gruen, ISAC Chairman

Report of International Committee for Architectural Photogrammetry (CIPA)  
by Cliff Ogleby, CIPA Chairman

Report of ISPRS Ad-hoc Group on Standards by Wolfgang Kresse  
Report of ISPRS Financial Commission Chair Petros Patias

## ORDINARY MEMBER DELEGATES AND ADVISERS TO ISPRS GENERAL ASSEMBLY

Ordinary Member	Cat.	Sign	Delegate	Advisors
Canada	8	ok	Costas Armenakis	Jonathan Li, Naser El-Sheimy
Germany	8	ok	Gottfried Konecny	Christian Heipke, Thomas Luhmann
Russian Federation	8	ok	Sergey Nekhin	
USA	8	ok	Kathleen (Kass) Green	Russell Congalton, James (Jim) Plasker
China	7	ok	Yang Kai	Li Deren, Wang Qian
Japan	7	ok	Shunji Murai	Haruhisa Shimoda, Ryosuke Shibasaki
France	6	ok	Marie-Jose Lefevre-Fonollosa	Laurent Polidori, Nicolas Paparoditis
India	6	ok	Shailesh Nayak	PLN Raju, J. S. Panihari
Italy	6	ok	Fulvio Rinavdo	
Spain	6			
United Kingdom	6	ok	Paul R T Newby	Paul Aplin, Jon P Mills
Australia	5	ok	Simon Jones	Renee Bartolo, Chris Bellman
Brazil	5			
Finland	5	ok	Petri Rönholm	Petteri Pöntinen, Juho Lumme
South Africa	5			
Sweden	5	ok	Daniel Akerman	
Austria	4	ok	Gert Steinkellner	Wolfgang Kainz, Norbert Pfeifer
Belgium	4			
Chinese Taipei	4	ok	Shue-chia Wang	L. C. Chen, T. Y. Shih
Jordan	4			
Netherlands	4	ok	George Vosselman	Martien Molenaar, Michael Schaepman
Turkey	4	ok	Sabri Demirezen	Kadri Pamukoglu, H. Hakan Maras
Saudi Arabia	4			
Switzerland	4	ok	Stephan Nebiker	Kirsten Wolff, Peter Fricker
Algeria	3			
Denmark	3	ok	Poul Frederiksen	John Kamper, Rune C. Andersen
El Salvador	3			
Hungary	3	ok	Miklos Gross	Gabor F. Remetey, Arpad Barsi
Iran	3	ok	Mohammad Sarpoulaki	Ali Eslami Rad
Israel	3	ok	Ammatzia Peled	Eyal Besi Dor, Haim Srebro
Morocco	3			
Norway	3	ok	Ivar Maalen-Johansen	Oystein B. Dick
Poland	3	ok	Aleksandra Bujakiewicz	Krystian Pyka, Zdzisław Kurczynski
Sri Lanka	3		Nihal Gunawardana	
Syria	3			
Ukraine	3			
Argentina	2			
Bulgaria	2	ok	Ivan Katzarsky	Tanya Madzharova
Colombia	2	ok	Myriam Ardilla Torres	
Croatia	2			
Cyprus	2		Michael Savvides	
Czech Republic	2	ok	Lena Halounova	Alice Patikova-Flicker

Ordinary Member	Cat.	Sign	Delegate	Advisors
Egypt	2			
Greece	2	ok	Petros Patias	Vasilis Tsşngoy, Vasilis Tsibukey
Hong Kong, China	2	ok	Thien Nyen Wong	Shi Wen-zhong
Ireland	2			
Korea	2			
Kuwait	2			
Malawi	2			
Malaysia	2	ok	Mohamad Kamali Bin Adimin	Abdul Kadir Bin Taib
Mexico	2			
Myanmar	2			
New Zealand	2			
Romania	2	ok	Ion Grigore Şion	Ioan Noaje, Georgeta Pob
Slovak Republic	2			
Thailand	2	ok	Thasanarongsin Boonlert	Chaisit Preeyanuspab
Venezuela	2			
Bangladesh	1			
Botswana	1			
Brunei Darussalam	1			
Burkina Faso	1			
Cameroon	1		Frédéric Happi Mangoua	
Chile	1	ok	Rodrigo Barriga Vargas	Pedro Mahuzier
Cuba	1	ok	Pedro Martinez Fernandez	
Ethiopia	1			
Ghana	1			
Indonesia	1	ok	Fahmi Ahmar	Ade Mulyana, Rudolf Matindas
Iraq	1			
Kenya	1	ok	Ephantus Murage Mudia	Polly Gitimu
Latvia	1	ok	Rihards Uldis Zuments	Liene Kasmina
Libya	1			
Lithuania	1			
Mongolia	1	ok	M. Saandar	
Namibia	1			
Nepal	1	ok	Robin Sharma	Krishna Prasad Bhandri
Nigeria	1			
Pakistan	1			
Peru	1			
Philippines	1			
Qatar	1			
Senegal	1			
Slovenia	1	ok	Mojca Kosmatin Fras	Anka Lisec, Ursa Kanjir
Tanzania	1			
United Arab Emirates	1			
Uruguay	1			
Vietnam	1	ok	Truong Ti Hoa Binh	
Zimbabwe	1			

## NON-VOTING DELEGATES AND ADVISERS TO ISPRS GENERAL ASSEMBLY

### Associate Member Delegates and Advisors (Non-Voting) to ISPRS General Assembly 21st ISPRS Congress, Beijing 2008

Associate Member	Cat.	Delegate	Advisors
Chinese Taipei (CTGS)	1	Tuan Chih Chen	
Colombia (Agustin Codazzi)	1		
Iran (ISC)	1		
Italy (AIT)	3	Piero Boccardo	
Korea (GIS)	1		
Korea (RS)	1		
Morocco (CRTS)	1		
Pakistan (PAUARO)	1		
Russian Federation (Society for CD P & RS)	2		
Thailand (GISTDA)	1	Suvit Vibulsresth Thangchai Charupatt	

### Regional Member Delegates and Advisors (Non-Voting) to ISPRS General Assembly 21st ISPRS Congress, Beijing 2008

Regional Member	Delegate	Advisors
AARS	Kohei Cho	
AARSE	Tsehaie Woldai	Jide Kufoniyi
CSSTEAP		
CRTEAN		
EARSeL		
OACT		
OEEPE	Kevin Mooney	Antonio Arozarena Christian Heipke
PAIGH	Rodrigo Barriga Vargas	Pedro Mahuzier
RCMRD		
RECTAS		
SELPER	Myriam Ardilla Torres	
SOPAC		

# AGENDA OF ISPRS GENERAL ASSEMBLIES

## Thursday 3<sup>rd</sup> July 10.30 to 15.30

1. Opening Address
2. Introduction of Invited Persons
3. Certification of Delegate credentials
4. Explanation and Confirmation of Voting Rights
5. Approval of Agenda
6. Admission of new Members
7. Changes of Category
8. Ratification of:
  - 8.1. ISPRS Lawyer and Accountant
  - 8.2. Awards
  - 8.3. MoUs
  - 8.4. Guidelines
  - 8.5. Contracts and Letters of Agreement
9. Member proposals to host Technical Commissions 2008-2012

## Saturday 5<sup>th</sup> July 08.30 - 12.00

10. Proposed amendments to the Statutes and Bylaws
11. Proposed introduction of Fellowships
12. Proposed increase in subscriptions
13. Discussion for dealing with members in arrears
14. Beijing Declaration
15. Election of Hosts of Technical Commissions
16. Presentation of Certificates to Helava Prize Runners up
17. Presentation by Moscow State University of Geodesy
18. Member proposals to host the ISPRS Congress in 2012
  - 18.1. Australia
19. Reports of Council
  - 19.1. President
  - 19.2. Treasurer
20. Report on the Journal
21. Nominations for Council and Financial Commission

## Monday 7<sup>th</sup> July 13.30 - 16.30

22. Report by the Secretary General
23. Discussion of amendments to Statutes and Bylaws
24. Election of Member to Host the ISPRS Congress in 2012
25. Ratification of Congress Director

26. Election of President
27. Election of Secretary General
28. Appointment of First Vice President
29. Election of Second Vice President
30. Presentation by the ISPRS Student Consortium
31. Election of Treasurer
32. Report on ISPRS Foundation
33. Election of Chair and Members of the Financial Commission
34. Decision on Amendments to Statutes and Bylaws (Deferred to next GA)
35. Exclusion of Members in default of payment of subscription fees
36. Change of names from Commissions
37. Report on Inter-Organizational Relations
38. "Beijing Declaration"
39. Reports on Communications
  - 39.1. ISPRS Highlights
  - 39.2. Home Page
  - 39.3. Book Series

## Wednesday 9<sup>th</sup> July 13.30 - 15.30

40. Reports from ISPRS Committees
  - 40.1. IPAC
  - 40.2. ISAC
  - 40.3. ICORSE
  - 40.4. CIPA
  - 40.5. Ad hoc Committee on Standards
41. Congress Director's report
42. Approval of Statutes and Bylaws
43. Approval of Resolutions for 2004-2008
44. Approval of "Beijing Declaration"
45. Report of Financial Commission
46. Decision on Unit of Subscription
47. Election of the Fellowship Committee
48. Appointment of Regional Representatives to Council
49. Ratification of new Trustees of Foundation
50. Other Business
51. Date of the next General Assembly
52. Close of General Assembly

# DECISIONS OF THE GENERAL ASSEMBLY

## 1. Membership

The General Assembly

- Admitted three Ordinary Members:
  - Nigeria: The Geoinformation Society of Nigeria, Cat: 1
  - Zimbabwe: Survey Institute of Zimbabwe, Cat: 1
  - Senegal: Centre de Suivi Ecologique, Cat: 1
- Approved resignation of Lebanon as an Ordinary Member
- Admitted 1 Associate Member: Colombia, Augustin Codazzi Geograph
- Raised the category of China from 7 to 8
- Decreased the category of Finland from 5 to 3

## 2. Ratification

The General Assembly ratifies the following:

- ISPRS Lawyer and Accountant
- Acceptance of Karl Kraus Award from the Swiss, German and Austrian societies
- Signing MoUs with ScanEx, UNFAO, North American Institute of Navigation (ION), Servicio Aerofotogrammetrico, Chile (SAF) and Chilean Air Force
- Changes to the ISPRS Orange Book guidelines, the Green Book guidelines for members of Council, and review of the guidelines of awards by the new Council
- Contracts with the Congress Director, the Publisher of the ISPRS Journal and the Publisher of the ISPRS Book Series
- ISPRS Webmaster

## 3. Elections

The General Assembly elected the Technical Commission Presidents for 2008-2012:

Commission I: Canada	Naser El-Sheimy
Commission II: Hong Kong, China	Wenzhong Shi
Commission III: France	Nicolas Papanoditis
Commission IV: USA	Marguerite Madden
Commission V: United Kingdom	Jonathan Mills
Commission VI: Netherlands	Martien Molenaar
Commission VII: Austria	Wolfgang Wagner
Commission VIII: Japan	Haruhisa Shimoda

The General Assembly elected Australia to host the ISPRS 2012 Congress in Melbourne.

The General Assembly elected, appointed or ratified Council for 2008-2012:

President: Orhan Altan, Turkey  
Secretary General: Chen Jun, China  
Congress Director: Cliff Ogleby, Australia  
Treasurer: Mike Renslow, USA  
First Vice President: Ian Dowman, United Kingdom  
Second Vice President: Ammatzia Peled, Israel

The General Assembly elected the Financial Commission for 2008-2012:

Chair: Lena Halounova, Czech Republic  
Members: Marie-Jose Lefevre-Fonollosa, France  
Myriam Ardila, Columbia

The General Assembly elected the Fellowship Committee:

Gottfried Konecny, Germany  
John Trinder, Australia  
Kohei Cho, Japan  
Petros Patias, Greece  
Marguerite Madden, USA

The General Assembly elected the Regional Representatives of the Council:

Africa: Jide Kufoniyi, Nigeria  
South America: Myriam Ardilla Torres, Colombia  
Southeast Asia: Suvit Vibulsresth, Thailand

## 4. Statutes, Bylaws and Resolutions

The General Assembly:

- Approved amendments to the Statutes and Bylaws
- Approved introduction of Fellowship as a new type of membership
- Approved the new title for TC II: Theory and Concepts of Spatial Science
- Approved Resolutions for 2004-2008
- Approved "Beijing Declaration"
- Increased the Unit of Subscription
- Ratified the new Trustees of The ISPRS Foundation

# MINUTES OF ISPRS GENERAL ASSEMBLIES

## Session 1 - Thursday 3<sup>rd</sup> July 2008

### 1. Opening Address

The ISPRS President Ian Dowman welcomed delegates and introduced the Council members to the General Assembly. He outlined the agenda.

### 2. Introduction of Invited Persons

The President welcomed the invited guests to the Congress and the General Assembly and looked forward to meeting them in the dedicated meetings with other organisations.

Invited people: William Cartwright, ICA President  
Alexandros Maratos, IHO President  
Stig Enemark, FIG President  
Fraser Taylor, ISCGM Chairman  
Mark Cygan, IMTA  
Michael G. Sideris, IAG President  
Bas Kok, GSDI President

The President also welcomed Honorary Members and other former Council members.

### 3. Certification of delegate credentials

The Secretary General Orhan Altan welcomed all delegates. The Secretary General summarised the voting rights. He advised delegates to register properly in time for the next General Assembly and receive their voting slips.

### 4. Explanation and Confirmation of Voting Rights

The Secretary General explained the certification proceedings and voting entitlements. The GA members were advised that a more detailed voting explanation would be given before the first vote on Saturday 5<sup>th</sup> July 2008.

### 5. Approval of Agenda

The agenda for the General Assembly was approved. No suggestions or alterations were made.

### 6. Admission and resignation of members

The following Ordinary Members have been admitted to ISPRS:

Nigeria: The Geoinformation Society of Nigeria, Cat:1  
Zimbabwe: Survey Institute of Zimbabwe, Cat: 1  
Senegal: Centre de Suivi Ecologique, Cat: 1

The following Ordinary Members have resigned from ISPRS:

Lebanon: National Center for Remote Sensing

The Ordinary members of Lebanon asked for resignation and it was approved.

The following Associate Members have been admitted to ISPRS:

Colombia, Augustin Codazzi Geograph

All Changes were already approved by postal vote.

### 7. Changes of Category

China asked to increase their category from 7 to 8 and it was approved by the General Assembly.

The Finnish Society of Photogrammetry and Remote Sensing asked to be lowered in its category from 5 to 3. This was approved by the General Assembly.

### 8. Ratification of

#### 8.1 ISPRS Lawyer and Accountant

A lawyer and accountant were appointed by the ISPRS Council. The agreements with the accountant Bormel, Grice & Huyett were presented to all members. Richard Kovelant is the lawyer of ISPRS.

#### 8.2 Awards

Leica has donated a new prize for the best papers in the Youth Forum.

#### 8.3 MoUs

The ISPRS website has been moved to the University of Stuttgart. Markus English is the new webmaster.

Agreements were also signed with:

- ScanEx
- UN Food and Agriculture Organisation (FAO)
- North American Institute of Navigation (ION)
- Servicio Aerofotogrammetrico, Chile (SAF) (under discussion).

A MoU with the Chilean Air Force is currently being negotiated.

#### 8.4 Guidelines

Changes to the ISPRS Orange Book guidelines were carried out in article 4 and 5. These changes relate to the sections of Technical Commissions and Working Groups. All Commission Presidents and Working Group Chairs were advised and encouraged to organise joint meetings/symposia.

The maximum number of working groups per Commission has been changed. The number of the Working Groups per commission should be between six

and eight. This should promote better management of each Technical Commission.

The Green Book – guidelines for members of Council has been written to support the work of new Council members.

The guidelines of awards will be reviewed by the new Council, as ambiguities have been identified in the awards guidelines.

#### 8.5 Contracts and Letters of Agreement

Contracts were signed with the Congress Director, the Publisher and the Editors of the journals.

A contract with Elsevier for the ISPRS Journal was signed before the Istanbul Congress. The contract runs until the end of the year and is currently under re-negotiation. A contract for the ISPRS Book Series has also been signed for three years.

### 9. Member proposals to host Technical Commissions 2008-2012

The nominees for Technical Commission Presidents made their presentations:

#### TC I

Canada, presentation by Naser El-Sheimy, Canadian Institute of Geomatics.

Proposed by Canadian Institute of Geomatics.

Change of title suggestions: Integrated Multi-sensor Systems (IMS).

Symposium will be hosted parallel with the Canadian Institute of Geomatics annual conference in June 2010 in Calgary.

#### TC II

Germany, Monika Sester withdrew her bid before the Congress. The official withdrawal was confirmed by Germany.

Hong Kong, presentation by John Wenzhong Shi, Hong Kong Institute of Surveyors.

Proposed by the Hong Kong Institute of Surveyors.

Symposium: Summer 2010 in Hong Kong potentially jointly organised with TC IV and IGU and together Asia GIS Conference.

#### TC III

France, presentation by Nicolas Paparoditis, IGN.

Proposed by the Society Française de Photogrammétrie et de Télédétection.

Five working groups and one inter-commission working group were proposed.

Key events: BenCOS (WGIII.1 7 WGIII.2), PCV Symposium in Paris, PRA 11 Munich (all WG).

#### TC IV

Japan, presentation by Ryosuke Shibasaki, Centre for

Spatial Information Science, University of Tokyo.

Proposed by Japanese Society for Photogrammetry and Remote Sensing.

Mid-term symposium June 2010, in Yokohama, Japan.

It was highlighted by the President that this Commission is first choice for Japan and the bid for Commission VIII is only to be used if the bid for Commission IV is unsuccessful.

USA, Presentation by Marguerite Madden, Centre for Remote Sensing, GIS and Landscape Ecology, University of Georgia.

Proposed by the American Society for Photogrammetry and Remote Sensing.

Symposium 2010 joined with FALL ASPRS Specialty Conference and CaGIS/AutoCarto in October 2010.

China, Presentation by Jianya Gong, National Geomatics Centre of China.

Proposed by Chinese Society for Geodesy, Photogrammetry and Cartography.

Nine working groups proposed, including two new working groups.

#### TC V

United Kingdom, Presentation by Jon Mills.

Proposed by the United Kingdom Remote Sensing and Photogrammetry Society.

Proposed new title: several suggestions were given.

Title will be discussed during the forthcoming open commission meeting and final proposal will be presented to General Assembly on Monday 7<sup>th</sup> July 2008.

Mid-term symposium proposed for 22<sup>nd</sup> to 24<sup>th</sup> June 2010, in Newcastle upon Tyne, UK.

#### TC VI

Chinese Taipei, Presentation by Tian Yuan Shih.

Proposed by the Chinese Taipei Society of Photogrammetry and Remote Sensing.

Symposium proposed for August 2010 in Hsinchu, Taiwan.

Netherlands, Presentation by Martin Molenaar, ITC Enschede.

Proposed by Geo-Information Netherlands.

Symposium proposed in June 2010 together with GEO CBC meeting.

#### TC VII

Austria, Presentation by Wolfgang Wagner, Vienna University of Technology.

Proposed by the Austrian Society for Surveying and Geoinformation.

Run symposium under heading "100 years ISPRS" joint

with Austrian-German and Switzerland Congress.

#### **TC VIII**

Italy, Presentation by Pierro Boccoardo, ITHACA.

Proposed by the Italian Society for Photogrammetry and Topography.

Symposium suggested for 2010 in Torino.

Japan, Presentation by Haruhisa Shimoda, Tokai University.

Proposed by the Japanese Society for Photogrammetry and Remote Sensing.

India, Presentation by Jai Singh Parihar.

Proposed by the Indian Society of Remote Sensing.

The elections for all Technical Commissions will be carried out on Saturday 5th July.

## **Session 2 - Saturday 5<sup>th</sup> July 2008**

### **10. Proposed amendments to the Statutes and Bylaws**

The following amendments to the statutes and bylaws were proposed:

Statute VI – addition of Fellows as a new type of membership, including the definition of this membership type.

Statute X – amended wording to allow observers to be officially invited to attend the GA.

Statute XI – appointment of three regional representatives to assist Council with coordination of activities in their regions, if those regions are not already represented on Council.

Statute XIII – add that Technical Commissions can have a Vice President and Working Groups can have Secretaries.

Bylaw VI – definition of who can propose Fellows:

Fellows Committee should consist of five members.

Maximum number of Fellows should be 30.

First election to be carried out in 2010 for up to 12 Fellows.

It was clarified that the Fellowship of ISPRS would be for life.

Bylaw VIII – Introduction of Advisory Board to meet with Council once a year consisting of the Editors of all ISPRS publications, Regional Representatives and the webmaster.

Bylaw X – give General Assembly more responsibility to elect Fellows and Regional Representatives.

Bylaw XI – Regional Representatives to be proposed by Council and should not serve more than two terms. Their duties are also defined in detail.

It was clarified that Council would attempt to support Regional Representatives financially to facilitate their travel. There are no formal criteria for Regional Representatives.

Bylaw XVII – Conflict of interest – Council should decide

on an individual basis if a conflict of interest may limit the person's objectives or not.

More details on the proposed amendments can be found in the GA document number 11.

The discussion for those proposed amendments was postponed to the end of the GA.

Voting on the amendments will be carried in the GA on Monday 7th July 2008.

Council was asked to consider opening the GA to the public for public observation (Netherlands).

### **11. Proposed Introduction of Fellowships**

The procedure for electing Fellows and their duties have been written in a more formal and detailed description. The Fellowships are to fill the gap between awards and Honorary Membership.

It was proposed by the United Kingdom to change the wording 'members who do not meet the requirements of becoming Honorary Members', as this appears very negative in the preamble. It was clarified that a member can be either a Fellow or an Honorary Member of the Society but not hold both positions at the same time.

### **12. Proposed increase in units of subscription**

It was proposed to change the subscription unit from 100 CHF to 115 CHF, per Bylaw XV. The main purpose is to increase the revenue to meet the rising cost of the day to day operation of the society (rising costs of air travel etc.). General living costs have risen in the last year by about 3% for most countries however the subscription unit has not been increased since 1997. Raising the subscription unit would result in an increase of 20,000 CHF in the annual budget.

It was suggested to maintain the education Unit E as it is at 250 CHF (Israel).

### 13. Discussion for dealing with members in arrears

Cases:

- Member unable to pay – proposed to maintain membership
- ISPRS has lost contact with member because of change in personnel or change of address – proposed to maintain membership but remove benefits
- Member has ceased to exist – proposed to exclude them
- More than eight years in arrears – proposed to exclude them

Proposed solutions:

- Invite Ordinary Member to adopt a country to pay its fee and act as mentor
- Waive subscription if evidence proves that member is active in ISPRS but unable to pay subscription
- Other payment of subscription, e.g. pay Council member during visit or at Congress and Council member will carry out formality because of the increased difficulties to transfer money internationally

There are currently 12 members in arrears of four years or more.

It was proposed to introduce permanent ISPRS email addresses to facilitate better contact to ISPRS (France). It was mentioned that countries in arrears may need more support than paying just the membership to be active in ISPRS (Netherlands). Credit cards payment will be introduced for paying the membership fees.

### 14. Beijing Declaration

The declaration was proposed by China to highlight how ISPRS can help to solve some global problems.

- call on scientific communities to support research
- share data and technology
- encourage cooperation and collaboration between scientists, governments, public and private sectors, non-governmental and international organisations

It was suggested to support the Cape Town Geo declaration with the ISPRS Beijing declaration (Netherlands).

Members of the GA were encouraged to submit written comments to Council for edits and revisions to the declaration.

The declaration will be announced at a press conference on the last day of the Congress.

### 15. Election of Hosts of Technical Commission

The following elections were carried out by approval of the GA:

TCI	Canada	President: Naser El-Sheimy
TCII	Hong Kong, China	President: Wenzhong Shi

TCIII	France	President: Nicolas Paparoditis
TCV	United Kingdom	President: Jon Mills
TCVII	Austria	President: Wolfgang Wagner

The following elections were carried out by voting:

TCIV USA President: Marguerite Madden with 83 votes (39 votes for Japan and 18 votes for China)

TCVI Netherlands President: Martin Molenaar with 177 votes (China Taipei with 26 Votes)

TCVIII Japan President: Haruhisa Shimoda

Results of first vote: Italy 28 votes, Japan 69 votes, India 46 votes. A second round of votes was carried out between Japan and India. The result of the second vote was: Japan 98 votes, India 47 votes.

The President congratulated all elected Technical Commission Presidents.

### 16. Presentation of Certificates to Helava Prize Runners up and Helvava Jury

The President Ian Dowman and ISPRS Journal Editor-in-Chief George Vosselman presented the award to: Martin Raubal, Stephan Winter, Sven Tessmann and Christian Gaisbauer for the paper entitled: "Time geography for ad-hoc shared-ride trip planning in a mobile geosensor network".

The Helvava Jury was thanked for their efforts by Council.

### 17. Presentation by Moscow State University of Geodesy

Presentation by Prof. Chibunichev (Russia) to bring Greetings to the General Assembly from the Moscow State University of Geodesy and Cartography. The University wishes ISPRS a successful Congress.

### 18. Member proposal to host ISPRS Congress in 2012

#### 18.1 Australia

The proposal by Australia to host the 2012 ISPRS Congress was presented by Cliff Ogleby, the proposed Congress Director. The proposed theme is 'Imaging a sustainable future'. The proposed 10 day programme is based on the format of previous ISPRS conferences. The standard registration rate will be 550 Euro. Current suggested dates are 15-28 September 2012.

The bid from Australia to host the ISPRS 2012 Congress in Melbourne was approved by the General Assembly.

### 19. Reports of Council

#### 19.1 President

President Ian Dowman presented his report.

The President is confident that the Society is in healthy state. The report was accepted by the General Assembly.

#### 19.2 Treasurer

The Treasurer Stanley Morain presented his report. The revenue is looking healthy.

The President Ian Dowman thanked Amelia Budge for her contribution and support to the Treasurer's work.

It was recognised that the current location of the ISPRS bank UPS in Switzerland presents a problem of accessibility, as the Treasurer is most times located in a different country.

#### 20. Report on the ISPRS Journal

George Vosselman presented his report as Editor-in-Chief of the ISPRS Journal.

The three Associate Editors of the ISPRS Journal are Ling Bian, Eberhard Guelich and Olaf Hellwich.

A stable schedule for publishing the ISPRS Journal was achieved by the end of 2007.

The President thanked George Vosselman for his tremendous efforts as Editor-in-Chief. A presentation

was made by the President to thank George Vosselman, Ling Bian, Eberhard Guelich and Olaf Hellwich for their work and efforts.

#### 21. Nominations for Council and Financial Commission

The nominations for Council were:

President: Orhan Altan (Turkey)

Secretary General: Chen Jun (China) and Ammatzia Peled (Israel)

Second Vice President: Ammatzia Peled (Israel) and Wolfgang Kainz (Austria)

Treasurer: Mike Renslow (USA)

Ammatzia Peled withdrew his nomination for Secretary General.

Presentations for the nominations for the candidates for Second Vice President were given by Ammatzia Peled (Israel) for himself and by Gert Steinkeller (Austria) for Wolfgang Kainz.

The vote will be carried out in the General Assembly on Monday 7th July.

The nominations for financial commission were:

Lena Halonova (Czech Republic)

Marie Jose Lefevre-Fonollosa (France)

Samantha Lavender (United Kingdom)

## Session 3 - Monday 7<sup>th</sup> July 2008

#### 22. Report by the Secretary General

The Secretary General Orhan Altan presented his report. The President Ian Dowman thanked Umut Aydar and Ozgur Avsar for their support of the work of the Secretary General over the last four years.

#### 23. Discussion of amendments to Statutes and Bylaws

It was decided that there would be too many logistical problems to open the General Assembly to the public. However, Council highlighted that observers can be invited to attend the General Assembly.

Some further minor edits to the original proposed edits in the statutes were presented by Emmanuel Baltsavias. These aimed to keep any edits small and to a minimum. It was proposed to keep changes in the Statutes to a minimum to avoid any conflict with the ISPRS registration. It was therefore determined to remove the sentences that 'observers may attend the GA', 'commission may appoint a vice president', 'working group secretaries may be appointed' from the proposed

amendments.

The Bylaws were edited to clarify the edits, e.g. allow Commission Presidents to elect Vice-Presidents and allow Working Group Chairs to appoint Secretaries and Regional Coordinators.

The definition of a Fellow was reworded to give it a more positive definition and Bylaw VI.6 d was edited to define the difference between a Fellow and an Honorary Member. Israel pointed out that it may give a negative impression to cease an Honorary Member of a Fellowship and the wording was changed.

No further comments regarding these suggestions were made by the General Assembly.

The decision on accepting these changes was postponed to the next General Assembly on Wednesday 9th July 2008.

#### 24. Election of Member to Host ISPRS in 2012

Melbourne was appointed as host for ISPRS 2012 in the previous GA.

### **25. Ratification of Congress Director**

Professor Cliff Ogleby (Australia) was ratified by the GA as the 2012 Congress Director.

### **26. Election of President**

Professor Orhan Altan (Turkey) was elected as ISPRS President for 2008-2012 by the GA.

### **27. Election of Secretary General**

Prof. Chen Jun (China) was elected as Secretary General for 2008-2012 by the GA.

### **28. Appointment of First Vice President**

Prof. Ian Dowman (UK) announced that he would take up the position of First Vice President for 2008-2012.

### **29. Election of Second Vice President**

The Secretary General Orhan Altan carried out a role-call to certify delegate credentials and confirm voting rights for the forthcoming votes.

The vote for the Second Vice President resulted in 82 votes for Ammatzia Peled (Israel) and 63 votes for Wolfgang Kainz (Austria).

Ammatzia Peled (Israel) was elected as Second Vice President for 2008-2012.

### **30. Presentation by the ISPRS Student Consortium**

The Chairman of the Student Consortium Cemal Ozgur Kivilcim gave a short presentation about the work of the ISPRS Student Consortium and the Youth Forum, which took place on Saturday 5<sup>th</sup> July 2008.

The President thanked Emmanuel Baltsavias and Mjoica Fras for their support to the Student Consortium.

### **31. Election of Treasurer**

Mike Renslow (USA) was elected as treasurer for 2008-2012 by the GA.

### **32. Reports on the ISPRS Foundation**

Dieter Fritsch presented the report on the ISPRS Foundation.

### **33. Election of Chair and Members of the Financial Commission**

It was highlighted that no member of the Financial Commission should be of the same country as any Council member (Canada). This caused an issue for the UK nomination Samantha Lavender, as Ian Dowman (also UK) is the First Vice President. Council decided that it would not be acceptable that Samantha Lavender should serve on the Financial Commission due to statutes. Miss Myriam Ardila from Columbia was proposed by Germany as a member for the Financial Commission and she was approved as a third member

of the Financial Commission.

The following delegates were elected by the GA for the Financial Commission.

Chair: Lena Halounova (Czech Republic)

Member: Marie-Jose Lefevre-Fonollosa

Member: Myriam Ardila

### **34. Decision on Amendments to Statutes and Bylaws**

Deferred to next GA.

### **35. Exclusion of Members in default of payment of subscription fee**

Turkey has agreed to support one of the Turkish society members, who have not been able to pay the subscription fee.

The GA approved that members should only be excluded from ISPRS if contact has been lost and if no payment has been made for more than eight years.

### **36. Change of names from Commissions**

TC II Proposed name: Theory and concepts of spatial science

Previous name: Theory and concepts of spatio-temporal data handling and information

TC V Proposed name: Close range image measurement techniques

Previous name: Close range sensing: analysis and applications

TC I withdrew its name change application.

### **37. Report on Inter-Organizational Relations**

President Ian Dowman reported on the current status of Inter-organizational relations, which include:

United Nations (ECOSOC, CODI, UN Statistic Division, COPUOS and FAO)

International umbrella organisations (ICSU, GEO, CEOS, ISO, OGU, OICC and COSPAR)

Other international societies (Joint Board of Geospatial Information Societies, SPIE, IEEE-GRS, CRTEAN and ION). ISPRS will continue to expand international relations around the world and in particular with these organisations.

Congbin Fu, Member of ICSU Executive Board, presented a report on the ICSU strategic plan 2006-2011. The plan was approved in October 2005. ICSU has 114 national members. The mission of the plan is to strengthen the international science for the benefit of the ICSU.

### **38. "Beijing Declaration"**

The declaration was edited following the comments of the last GA and now mentions the link to the Cape

Town GEO Declaration.

The Beijing declaration will be presented to the GA on Wednesday 9<sup>th</sup> July for final approval.

### **39. Reports on Communication**

#### **39.1 ISPRS Highlights**

The report on the ISPRS Highlights was presented by Orhan Altan.

Since March 2006 the ISPRS Highlights are no longer produced in paper form, but are published in digital form only. About 20,000 digital issues of the ISPRS Highlights are published. ISPRS has also a regular page in GIM International magazine. An electronic questionnaire will be sent with the next ISPRS Highlights to review the current way of publication.

The President Ian Dowman thanked Tuan Chin-Chen and Qiming Zhou for their support in producing ISPRS Highlights.

#### **39.2. Home Page**

The report on the ISPRS Homepage was presented by the Emmanuel Baltasvias for the webmaster Fabio Remondino.

Fabio Remondino managed the webpage until May 2008. In May 2008 the ISPRS web server was moved to the University of Stuttgart and Markus English became the new webmaster. The website contains 700 html pages and 1000 PDF documents. More than 400,000 requests are sent to the website per month. The

website was contacted through 170 domains. All TC ran dedicated homepages between 2004 and 2008. A PayPal system will be introduced to pay membership subscription fees more confidently. Proceedings of all ISPRS conferences should be delivered to the webmaster for publishing on the ISPRS web page.

The President Ian Dowman thanked Fabio Ramondino for his work as webmaster and ETH Zürich for hosting the webserver.

#### **39.3 Book Series**

Paul Aplin presented the report on the ISPRS Book Series.

Paul Aplin became Book Series Editor in 2005 following Maxim Shoshany and is appointed until 2011. An overall strategy for the book series was developed. A volume proposal form was developed and should be used by any editor to propose a new volume. The book series website has been updated. The ISPRS Book series publisher is CRC Press/Balkema, Taylor & Francis Group. A Congress special book series was produced. The ISPRS book volumes 3-7 have been published since 2004. The book series is successful but is not yet fulfilling its full potential.

The President Ian Dowman thanked Paul Aplin for his work with a presentation.

## Session 4 - Wednesday 9<sup>th</sup> July 2008

### 40. Reports from ISPRS Committees

#### 40.1. ISAC

Armin Gruen presented the ISAC report.

The President Ian Dowman thanked Armin Gruen for his work with a presentation.

#### 40.2. IPAC

#### 40.3. ICORSE

Jim Webb presented the report for ICORSE.

#### 40.4. CIPA

Cliff Ogleby presented the report for CIPA.

#### 40.5. Ad hoc Committee on Standards

Wolfgang Kresse presented the report of the ad-hoc Group on Standards.

The President Ian Dowman thanked Wolfgang Kresse for his efforts with a presentation.

### 41. Congress Director's report

The Congress Director Chen Jun presented his report.

Overseas registration: 1516 overseas participants and 1280 Chinese participants

Countries: 76 (Germany with 187 participants as the highest participating country)

GA countries: 41 with 120 participants

2815 abstracts were received with the highest for commission TC IV

TC I 376, TC II 353, TC III 298, TC IV 457, TC V 365, TC VI 180, TC VII 389, TCV III 397

275 events and sessions have been organised

145 presentation sessions with 705 presentations were organised

Tutorials: 158 participants

Workshops: 411 participants

User forums were run for the first time and were very successful with over 100 participants

ISPRS Summer School: 40 registrations from 12 countries

Number of full papers: 1776

95 exhibitors with 61 from overseas and 34 from China

8 technical visits were attended by 275 participants

### 42. Approval of Statutes and Bylaws

The new title for TC II 'Theory and concepts of spatial science' was approved by a show of hands.

Council did not recommend the change of title for TC V to 'Close Range image measurement techniques', as it felt

that it would narrow down the working field of the TC V, as the TC should also include applications. The old title of TC V 'Close range sensing: analysis and applications' was voted for by the GA to be maintained. The new proposed title was not voted for. It was recommended that another GA would take place in two years time and it would be provide another opportunity for the change of title.

The amendments to the statutes and bylaws were accepted by the GA.

### 43. Election of the Fellowship Committee

The Fellowship Committee should consist of five members.

The following members were proposed by Council: Kohei Cho (Japan), Petros Patios (Greece), John Trinder (Australia), Marguerite Madden (USA).

Gottfried Konency (Germany) was also nominated as a member of the Fellowship Committee.

### 44. Appointment of Regional Representatives to Council

Council proposed the following representatives for three regions:

Africa: Olajide Kufoniyi

South America: Myriam Ardila-Torres (Columbia)

South-east Asia: Suvit Vibulsresth (Thailand)

The regional representatives were approved by the GA.

### 45. Approval of Resolutions for 2004-2008

John Trinder presented the Resolutions for 2004-2008 consisting of 28 resolutions.

The following changes were applied to the resolutions following discussion during the GA

RS I.1 Delete 'of all types'

RS II.1 Delete of 'for decision support' of the recommendation

RS II.2 Delete brand names 'Google Earth' and 'Virtual Earth'

RS III.1 Delete the recommendation of a working group but keep the recommendation on the proposed research

RS III.2 Delete the recommendation of a working group

RS V.2 Resolution was withdrawn from the resolution list

RS V.3 Recommended to add "cooperation with other institutions" in here but was approved in its original state

RS VII.1 Change of title to "information extraction from SAR and other RS data"

RS VII.2 Change of title "multi-temporal analysis and change detection"

All but one resolution were passed, subject to minor changes in content and wording, see above.

#### **46. Approval of “Beijing Resolution”**

The Beijing Resolution was approved by the General Assembly with some minor changes in the wording, which will be released to the media on Friday 11th July 2008.

#### **47. Report on Financial Commission**

The Chair of the Financial Commission Petros Patias presented the report of the Financial Commission for 2004-2008. It was recommended to include the FC earlier into the financial decision process.

The President Ian Dowman thanked Petros Patias for his efforts with a presentation.

#### **48. Decision on Unit of Subscription**

It was clarified that the Unit of Subscription does not apply to sustaining members. The United Kingdom requested a more detailed justification of the increase. The Treasurer pointed towards the justification given in the original paperwork.

The change to the Unit of Subscription to 115 CHF was approved by a show of hands.

#### **49. Ratification of new Trustees of Foundation**

Two of the following nominations will be chosen by Council to join the Board of Trustees of the ISPRS

Foundation: Ian Dowman, Mike Renslow, and Ammatzia Peled.

#### **50. Other Business**

Austria: The Swiss, German and Austrian societies suggested the Karl Kraus Medal, sponsored by those three societies (OVG, SGPBF, DGPF) to ISPRS. This award should be given to outstanding textbooks in one of the official ISPRS languages. It will be first awarded in 2010 and at every subsequent ISPRS Congress. The jury will consist of three members: one designated by Council and TC VI, one from the Student Consortium and one from the sponsoring societies (OVG, SGPBF, and DGPF).

The General Assembly gave their approval to this proposal.

#### **51. Date of the next General Assembly**

4th July 2010 in Vienna, Austria.

#### **52. Close of General Assembly**

President Ian Dowman closed the final 2008 General Assembly with thanks to attending delegates.

# REPORT OF ISPRS PRESIDENT IAN DOWMAN TO THE GENERAL ASSEMBLY FOR 2004 - 2008

Distinguished Delegates, Representatives, Advisors and Guests, Ladies and Gentlemen,

## 1. INTRODUCTION

It is my pleasure to present my report at the 21st Congress of ISPRS. It has been an honour and privilege to have served as President of ISPRS for the past 4 years and it has been very gratifying that during my term of office I have had the support of so many colleagues and associates. I have had the opportunity to meet many people from sister societies, from government organisations and from other groups who have an interest in ISPRS and in the science which we promote. I hope that I have indeed promoted the interests of the society during this time, that is one of the responsibilities of the President, but I have certainly learned a lot, and gained understanding of many aspects of science and of the cultures within our global community and I hope used this to benefit ISPRS. This has been possible because of the interest and respect of many people in the work of ISPRS, and I sincerely thank all those who have extended their hospitality to the Society and to myself as President during the past four years.

According to the Statutes and Bylaws, the President is responsible for:

- Convening and presiding over the Congress plenary, the General Assembly and meetings of Council
- Coordinating the activities of the Commissions, Working Groups and Committees
- Representing the Society with national and international institutions and organizations whose activities are of interest to the Society
- Cooperating with other international organizations
- Communicating with the Members of the Society.

I will report to this General Assembly (GA) on the activities and achievements of the Council during the past 4 years, and my assessment of the current status of the Society. I will touch on some topics which will be covered in more detail by the people responsible.

In my speech at the closing ceremony of the congress in Istanbul I set out the following goals for 2004 -2008:

- Sustain and develop the scientific programme based on international excellence in research and in collaboration with other international scientific unions;

- Expand the international role of ISPRS by building on our existing links and developing a presence in developing countries;
- Continue the role of ISPRS in education and technology transfer in collaboration with international partners;
- Develop the Foundation and attract \$500 000 of funds by 2008.

During the four year Council has taken note of the need for ISPRS to take issues concerning the global environment and sustainability into consideration, and has discussed policies which will be initiated during the next four year period.

I will cover these issues in the course of my report, and, I hope, demonstrate that according to these objectives, ISPRS has had a successful four years.

## 2. COUNCIL ACTIVITIES

### 2.1 Meetings

The Council convened ten formal meetings during this inter-Congress term, on five of these occasions also with the Technical Commission Presidents. Transition meetings were also held of Council and of Council with the Commission Presidents soon after the elections were decided at the Istanbul Congress in 2004, to review goals, responsibilities, guidelines and future meetings. Council has also met informally on occasions when four or more members have been together at other meetings. The details of the Council and Joint Meetings will be reported on by the Secretary General. Minutes of these meetings have been published in ISPRS Highlights. I want to express my gratitude for the generosity of the Members who hosted and provided support to convene these meetings.

### 2.2 Strategic issues

#### 2.2.1 Outline

In the early meetings, Council discussed the strategic approach which should be taken to a number of important issues and concluded that the following should be pursued:

1. Production of good promotional material for ISPRS science.
2. Promotion of ISPRS as the main international organisation for remote sensing.
3. Greater interaction and engagement with Members.
4. Collaboration with cognate organisations.
5. Organisation of meetings in Africa and Latin America.

### 2.2.2 Promotion of ISPRS

The major achievement has been the production of a video and an accompanying brochure. The Secretary General will report in more detail on this, but I would like to thank all those involved in the production of these items, especially Gerhard Kemper who did most of the production work. The video and brochure have been widely circulated and also widely used as educational and promotional material and have served to inform people about the science of photogrammetry and remote sensing.

### 2.2.3 Promotion of ISPRS as the main international organisation for remote sensing

Successive Councils have been concerned that ISPRS is not seen as the main society promoting remote sensing. It has proved difficult to change this perception over the years and this has not been helped by the fact that the officers of the Society have come primarily from the photogrammetry community. During the last inter congress period ICORSE (the International Committee for Remote Sensing of the Environment) became a committee of ISPRS and so the biennial international Symposia for Remote Sensing of the Environment came under the umbrella of ISPRS. Although ISPRS Council Members and TCPs have had a role in the programme of ISRSE meetings, ISPRS is not seen as the main organiser of these meetings. Positive moves towards this objective are that ISPRS is recognised within the United Nations and ICSU as the society responsible for interpreting imagery. Within the Group on Earth Observations (GEO) ISPRS has played a significant role in the tasks defined for implementing the Global Earth Observing System of Systems (GEOSS).

### 2.2.4 Greater interaction and engagement with Members

Most of the Officers and Working Group chairs are from the developed world and people from Africa, Latin America and parts of South East Asia are not well represented, and are little heard within ISPRS. As a first step towards rectifying this, open meetings have been held at conferences in these regions in which a presentation has been given on ISPRS and discussion held to obtain views from both members and non members. Meetings have been held in Cairo, Pretoria, Hanoi, Accra, and Sao Paulo. In addition Council met with Sustaining Members in Zurich. Council is now proposing to the General Assembly that Regional Advisors be appointed to advise Council on the needs of these less well represented regions.

Council has been concerned that Members do not receive a great deal for their subscriptions. In order

to change this we have reviewed the benefits of membership and have introduced free electronic subscription to the ISPRS Journal for all members in good standing and have given priority to applicants from member countries for travel grants. These changes have been communicated to Members.

### 2.2.5 Collaboration with cognate organisations

A full report on collaboration is given elsewhere by the Secretary General. I mention here the strong links which have been build up through the Joint Board of Geospatial Information Societies (JBGIS), especially with FIG and ICA, through the International Council for Science (ICSU) GeoUnions and through collaboration with IEEE and OGC through GEO. These links have led to ISPRS contributing to ICSU and GEO in ways which would not have been possible by ourselves. Of particular note are the GEOSS Workshops organised with IEEE and OGC: Stan Morain and myself have been involved in the organisation of five of these workshops and ISPRS has contributed with other organisations to several others.

### 2.2.6 Organisation of meetings in Africa and Latin America

I believe that the recognition of ISPRS in Africa has significantly increased during the past four years. I have attended and contributed to 2 meetings of the UN, Economic Commission for Africa, Committee on Development Information (CODI), and meetings of Africa GIS, AARSE and FIG. Two GEOSS Workshops have been held in Africa and a third is being organised for October this year. ISPRS has been instrumental in setting up a Knowledge Portal for African National Mapping Agencies on the Africa Geospatial Information Regional Network (AGIRN) website. This has been done with support from the Ordnance Survey of Great Britain, the Human Sciences Research Council of South Africa and EIS Africa.

Emmanuel Baltsavias, ISPRS Second Vice president has organised a tutorial at Africa GIS in Pretoria, and a Summer School in Costa Rica. A further Summer School is planned for Cuba in September 2008. Attendance at these summer schools and the GEOSS workshops have been supported by travel grants from the ISPRS Foundation.

## 3. ONGOING ACTIONS FROM THE 2000 STRATEGIC PLAN

### 3.1 Implications of previous decisions

The strategic planning process that was undertaken in 1998 and reported on at the Amsterdam Congress,

resulted in a number of ongoing actions for which Council were responsible. John Trinder reported at length to you in 2004 on the progress of the most important of these, and the work of the 2000-2004 Council laid a very strong foundation for Council in the 2004-2008 period.

A major issue was the registration of the Society and this was approved by the General Assembly in 2004. Registration has enabled ISPRS to pursue a number of activities as a legal entity and generally this has occurred without any significant problems. Probably the major burden has fallen on the Treasurer who is required to file annual reports to the IRS in the USA, and this has required the services of an accountant. The necessary work has been done without undue complication.

### 3.2 Commission ToRs

The Terms of Reference of the Technical Commissions were completely revised in 2004 and an additional Commission set up. This process was not without its critics and there have been weaknesses uncovered during the past four years. However both Council and the TCPs agree that the basic concept was correct and that no changes should be made at this General Assembly. It has been a disappointment to Council that it was not possible to have joint symposia in 2006. Common ground between Commissions VII and VIII has not been exploited, although both Commissions contributed to the International Symposium on Remote Sensing of the Environment at St Petersburg in 2005.

### 3.3 ISPRS Foundation

Progress in attracting donations to the Foundation has not been as good as hoped. Nevertheless the Foundation has attracted donations and performed a useful role in allocating funds, mainly for travel to conferences for people from developing countries. Lawrence Fritz as Finance Officer and John Trinder as Operations Officer have done an excellent job in managing the affairs of the Foundation and they have been supported by an active Board of Trustees. A separate report on the Foundation will be made to the General Assembly.

### 3.4 Future Strategy

At the beginning of the 2004 -2008 period Council decided that most of the recommendations of the Strategic Plan approved in 2000 had been met. In 2007 it was decided that it would be appropriate to review the Plan and present an updated strategy to the General Assembly at the ISPRS Centenary event

in 2010. Accordingly a committee has been set up to prepare a revised strategic plan and this committee will meet during the Congress here in Beijing and again in 2009 to prepare the plan.

## 4. SCIENTIFIC ACTIVITIES

The main activities of ISPRS have been the meetings organised by Technical Commissions and Working Groups. These are reported on in detail by the Secretary General. The main activity was the Commission Symposia held in 2006. It was a big disappointment that the symposium of Commission VIII had to be cancelled because of the military situation in Israel. The Commission Presidents have done an excellent job in ensuring that all relevant areas of science have been covered by working groups and although not all working groups have been active, most have organised at least one meeting during the four year period. Of particular significance have been the joint meetings and it is particularly pleasing to see a number of meetings becoming regular events; in particular the Hannover Workshops on use of high resolution imaging, the Photogrammetric Image Analysis Workshop (PIA), Mobile Mapping Technology (MMT) and GI4DM. Some of these meetings have been jointly with other societies. The meetings of ISPRS Committees, CIPA and ICORSE are also internationally recognised biennial events.

Council has examined, with the TCPs, how well the actions set out in the resolutions passed in Istanbul, have been carried out and concluded that the TCPs have made satisfactory progress on following the wishes of the General Assembly. Council is advised on scientific matter by the International Science Advisory Committee, which is a permanent committee of ISPRS. The four year cycle of ISPRS can mean that new developments are not taken on board as quickly as necessary; we look to advice from ISAC on which topics should be pursued urgently. We do get input from other sources and I am particularly pleased about an initiative from NASA to start a working group to bring together regional organisations working on airborne science. The new president of Commission I is working with those interested to start this activity.

In 2004 we set up an ad hoc Committee on Standards to co-ordinate work on standards across the Commissions and Working Groups, and to represent ISPRS at ISO and other standards groups. I am grateful to Wolfgang Kresse for chairing this committee and for the support of Hans Knoop in representing ISPRS at ISO.

## 5. COMMUNICATIONS

The main means of communication within the Society and externally have been unchanged except for the format of Highlights. Detailed reports will be given by the editors. The ISPRS Journal of Photogrammetry and Remote Sensing has continued to flourish under the editorship of George Vosselman, with the help of the Associate Editors. A new contact with Elsevier is currently being negotiated. Meeting organisers have continued to produce the International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, mainly as softcopy and most proceedings are now available on the ISPRS website, although there have been some difficulties because of editors not producing proceedings in the required format. The Book Series, edited by Paul Aplin has produced 6 volumes and of particular note is *Advances in Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book*, which is released here at the Congress. The website has developed well under the control of Fabio Remondino, but due to Fabio leaving ETH Zurich, has now been moved to University Stuttgart where Markus English will be the webmaster. Memoranda of Understanding have been signed with Armin Gruen at ETH Zurich and Dieter Fritsch at Stuttgart to host the website, and their support is very much appreciated. My thanks go to all of these editors and to Tuan Chih-Chen who has edited the Calendar and to Quiming Zhou, the book review editor.

The major change since 2004 has been the change of format of ISPRS Highlights to an eBulletin, and more recently Reed Business has designed a new website to display eHighlights. We are looking for feedback on this from the GA and Congress delegates.

## 6. COOPERATION WITH INTERNATIONAL ORGANIZATIONS

While details of cooperation with international organizations will be presented separately to the GA. We have signed agreements with the following organisations during the past four years:

- ScanEx
- UN Food and Agriculture Organisation (FAO)
- North American Institute Of Navigation (ION)
- Servicio Aerofotogramétrico, Chile (SAF) (under discussion)

I would like to note particularly our work with The International Council of Science (ICSU) and with the Group on Earth Observation. Membership of ICSU has brought ISPRS into contact with a number of other scientific unions such as IUGG, IUGS URSI which have common interests with ISPRS, and these have been

discussed through the GeoUnions group. One very positive outcome from this has been the award of a grant from ICSU to ISPRS, with Stan Morain as Principal Investigator, for "Mapping GeoUnions to the ICSU Framework for Sustainable Health and Wellbeing", which will involve other GeoUnions. This interest in health also links to GEO activities, where WG VIII/2, co chaired by Amy Budge has organised GEOSS workshops on air pollution and health. These developments are extremely encouraging for wider collaboration in the future.

## 7. MEMBERSHIP

I have noted already the problem of members in arrears and the Secretary General will report on membership. The General Assembly has already approved changes in the Statutes and Bylaws to increase the number of Honorary Members, and the new Honorary Members for this year have been chosen by the Honorary Members Committee which was chaired by Larry Fritz. I would like to thank Larry and his Committee for their work on this issue. Council is also proposing to the GA that they introduce the position of ISPRS Fellow to reward individuals who have given long and distinguished service to the Society.

## 8. ADMINISTRATION AND OPERATIONAL MATTERS

### 8.1 The Society Headquarters

The day to day running of the Society is the responsibility of the Secretary General. Orhan Altan has set up an efficient organisation in Istanbul and has made good use of the tools provided by previous Councils, particularly the membership database, set up by Ammatzia and Rachel Peled between 2000 and 2004. Good communication has been established with Members and the Society has run well. The smooth running of the office in Istanbul, and the management by Orhan Altan has ensured that the Society has prospered during the past four years.

### 8.2 Finance

The Treasurer has run the financial side of the Society very well and made a number of important innovations such as the use of PayPal to facilitate payments to the Society. This, along with a number of issues which should be discussed by the new Council are set out in the Treasurer's report. Stan Morain has been ably assisted by Amy Budge whose hard work has helped the efficient running of the Treasurer's office. The GA is aware of the proposal to raise subscription and I hope that you will support this to enable the Society to continue to run on a good financial basis.

Most of the Society's expenditure is on administration

and Council travel. We have also supported some science initiatives and travel for delegates to conferences; an increase in this activity is highly desirable and will be possible with a healthier bank balance.

### 8.3 Representing the Society

During the past four years I have had the opportunity to visit many countries for the purpose of representing ISPRS at meetings and conferences. The Society has also been represented by other members of Council when appropriate. I have always tried to visit ISPRS members organisations in those countries in which we are represented and have visited 32 of our Member countries and met representatives from other countries at conferences and meetings. I am very grateful to those members who have shown me hospitality during the past four years and very much appreciate the opportunity to experience their culture and discuss local and global issues. Meetings with our Regional members have also been very productive and we have ongoing discussions with EuroSDR and AARSE about closer collaboration. I have also represented ISPRS at UN CODI, the UN Regional Cartographic Conference for the Americas, at the International Council for Science (ICSU) and the Group on Earth Observation (GEO). Other members of Council have also represented the Society and various conferences and meetings.

I have formed the opinion from these visits and discussions that ISPRS plays an important role in bringing people together from different countries and can make a significant contribution to the international development of photogrammetry and remote sensing and that our involvement with ICSU and the United Nations gives our members opportunities for developing national programmes.

### 9. RECOGNITION OF CONTRIBUTIONS OF THE COUNCIL AND ISPRS OFFICERS

An organisation such as ISPRS should develop and get stronger over the years. Hence the achievements of the 2004 - 2008 Council are built on the contribution of those which went before it. In particular I would like to mention the actions which resulted from the Strategic

Plan agreed in 2000 and the engagement with other organisations which resulted from that. However we must take responsibility for what has been done during the last four years and what has been done could not have been done without a committed and dedicated team. The President relies heavily on his fellow Council members. I have already paid tribute to Secretary general Orhan Altan and Treasurer Stan Morain but the experience and wise advice from 1st Vice President John Trinder and the insightful comment and attention to detail of 2nd Vice President Manos Baltasvias have been invaluable in the discussions of Council. I do not need to repeat what a good job Congress Director Chen Jun has done in organising the Congress, and he has also made useful contributions to all aspects of Council discussion.

Many hundreds of hours of personal as well as employer time have been spent by all of the Council in undertaking their duties. The Society should be very grateful for having such a totally committed Council. I acknowledge the contributions of the Technical Commission Presidents and their secretaries who were all very committed to their task, their WGs chairs, co-chairs and secretaries, the Financial Commission, the publication editors, chairs and members of ISPRS permanent committees, IPAC, ISAC, ICORSE and CIPA. I cannot name all of these people, but the work of ISPRS has been team effort. I also wish to acknowledge the support of University College London, which has allowed me to spend time and resources on ISPRS affairs, and the UK Remote Sensing and Photogrammetry Society which has given financial and moral support.

### 10. SUMMARY OF STATUS OF THE SOCIETY

In conclusion I believe that in July 2008 the Society is in a healthy state. There is always more work to do and I am confident that this will continue under the new President. I thank the general Assembly for their support and ask them to accept this report.

Ian Dowman  
President  
July 2008

# REPORT OF ISPRS TREASURER STANLEY MORAIN TO THE GENERAL ASSEMBLY FOR 2004-2008

## Opening Comments

It is my pleasure to present a financial summary for the 2004-2008 Congress Period. It has been one of remarkable progress for ISPRS. To set the stage for this report, it may be instructive to compare summary financial data from Congress periods XVII-XXI (1988-2008).

## Financial Trends 1988-2008

Table 1 ISPRS Financial Status 1992-2008  
Source: Archives-A Treasurer Reports to the General Assembly

tem	Approximate Values <sup>1</sup> (Swiss Francs)				
	1988-92	1993-96	1997-2000	2001-04 <sup>2</sup>	2005-30/5/08
<b>Total Cash Income</b>	253,690	395,049	499,385 <sup>3</sup>	629,570	603,776
<b>Net Cash Income<sup>4</sup></b>	67,799	95,855	69,837	188,068	69,184
<b>Investments<sup>5</sup></b>	244,499	273,839 <sup>6</sup>	389,630 <sup>7</sup>	619,908	554,303
<b>Total Expenses</b>	185,891	299,194 <sup>8</sup>	429,548	441,502	534,592
<b>In-kind Support<sup>9</sup></b>	NA	≈ 95,000	≈ 100,000	NA	≈ 165,000
<b>Approx. Cost of Doing Business<sup>10</sup></b>	195,891	394,194	529,548	>441,502	699,592

<sup>1</sup>All values are approximate because there is no set format for the treasurer's report.

<sup>2</sup>In 2004 the fiscal year was changed from April 1-March 31 to January 1-December 31. Values for 2004 are thru December 31 so do not match the values presented in Istanbul. Values for 2004-08 are thru 30 May, 2008.

<sup>3</sup>In 2000, unpaid fees were considered to be deferred income. For consistency, these fees have been subtracted here from total income. The assets reported were CHF 580,710.

<sup>4</sup>Total Income minus total expenses

<sup>5</sup>Values are given for the end of each Congress Period; value for 2005-2008 is for 30 May, 2008.

<sup>6</sup>Based on a 12% increase between 1992 and 1996. Base (presumed) = 244,499.

<sup>7</sup>The increase of 12% in Swiss Bond income reported for the 1992-1996 period reportedly dropped 6% by 2000. Diversification into other investments helped to maintain value.

<sup>8</sup>No specific figure for expenses was given so the amount was derived by subtracting Net Cash Income (95,855) from Total Cash Income (395,049).

<sup>9</sup>In-kind support consists of estimated out-of-pocket expenses to host ISPRS Council Meetings and Council administrative costs.

<sup>10</sup>Total expenses plus estimated in-kind support.

Notable Trends: Costs for managing Society's business needs and scientific programs are rising and cannot be sustained without high levels of cash and in-kind support from Ordinary and Sustaining members, and cash donations from external sources.

Incremental developments in e-Commerce, the global spread of the information age, and banking practices have not only increased the Treasurer's responsibilities, but also the amount of time required to perform them. The Treasurer's role has migrated from a fiscal officer answerable only to the Society's Financial Commission toward being a financial manager with external legal and fiduciary responsibilities to the Society; namely, a tax accountant, lawyer, and government regulatory agencies. These external developments have blurred the role and functions of the Financial Commission. The need for internal financial oversight is still important, and Council is now working with the Commission to modernize its terms-of-reference.

The figure below shows income and expenses for January 1, 2000 to May 30, 2008. Trend lines indicate nearly parallel, gradual increases in both. To off-set rising costs, Council proposes a change in the membership unit from 100 to 115 beginning January 1, 2009.

Table 2 shows a relatively stable annual income from member fees over the last 10 years. Higher income in some years typically result from members paying arrears or attending Congresses.

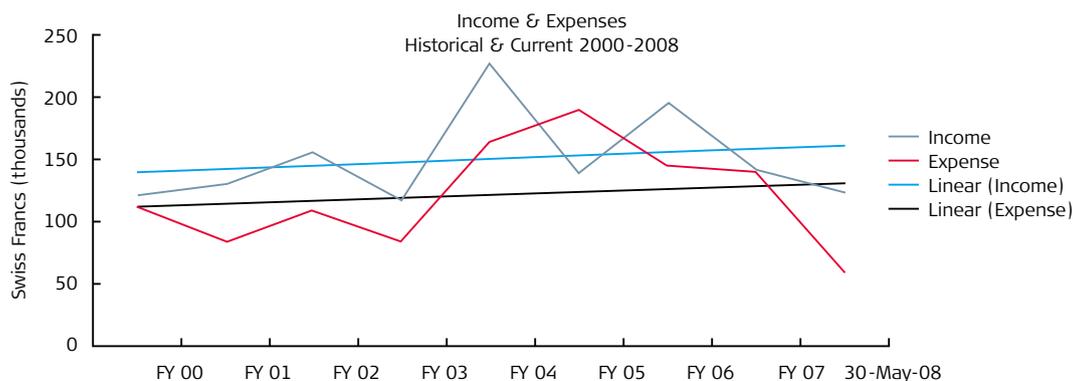


Table 3 Subscriptions Collected 1997-2008 (all membership types and categories)

Member Type	OM	SM	RM	AM	Total
Year	CHF	CHF	CHF	CHF	CHF
1997	61,111	44,729	800	1,400	108,040
1998	52,763	31,863	200	1,300	86,126
1999	82,082	34,500	300	1,700	118,682
2000	65,918	28,294	1,577	1,200	96,989
2001	59,246	43,985	1,555	2,532	107,318
2002	55,659	40,426	364	3,200	99,649
2003	71,373	33,161	486	949	109,208
2004	75,513	42,662	1,944	6,238	126,357
2005	63,195	51,936	1,283	1,817	118,231
2006	74,070	58,945	1,462	3,207	137,684
2007	58,275	47,729	858	2,482	109,344
2008	56,215	39,719	1,065	1,095	98,093

Note: Exchange rates between USD/CHF and Euro/CHF were calculated for each year (1997 through 2003) per the exchange rate at the end of each calendar year (31 Dec.). Exchange rates between these currencies starting in 2004 were calculated throughout the year on the day of each transaction using a daily average rate provided online by x-rates.com (<http://www.x-rates.com>). Totals for 2008 are through 30 May 2008.

### 2005-2008 Financial Operations

Accounting System: The accounting system created in the 2000-2004 period has been used with only minor changes. This system requires maintenance by both the Secretary General and the Treasurer and their assistants; and, it contains functions that require "work-around" solutions. For the convenience of future Treasurers, we have developed a training manual for day-to-day operations of the Treasurer's database. In the longer term, the system either needs to be streamlined and further documented, or it needs to be transitioned to a commercial-off-the-shelf (COTS) software maintained and up-dated by the vendor. Since the World Trade Centers disaster in 2001, International banking regulations have been increasingly restrictive. Accordingly, there have been changes in UBS banking policies toward its international customers. The traditional practice of having ISPRS headquarters

officially located in the Secretary General's home country is problematical with our current UBS bank in Zurich. Due to banking regulations, ISPRS was asked to establish a permanent headquarters in either the EU or the UK. Other banking issues are:

- UBS discourages members from sending checks for annual fees directly to the bank. They prefer payments by check to be passed through the ISPRS Treasurer and forwarded to UBS along with an official bank deposit form. UBS now charges a fee for checks sent directly to them, and may eventually disallow the practice.
- The bank encourages electronic transfers and credit card payments. These services often involve 3rd party banks that all charge fees for their services and can take days or weeks to be completed. These measures, while safer than payments by mail, all add complexity and time to transactions, and require more email traffic between Treasurer and members to monitor transactions.

Incorporation: The Society's incorporation as a not-for-profit (that is, tax exempt) organization has worked well. However, it has added responsibilities to the Treasurer that require certified professional services to complete and submit annual financial forms, most notably the IRS-990 and the State of Maryland Personal Property forms. There are regulatory changes in these forms each year that, if not followed, could result in ISPRS losing its tax-exempt status.

Monitoring Society expenses: In 2005, Council authorized the Treasurer to make online electronic transfers to pay for vendor services. This is a convenient and safe method for doing business. For external compliance purposes and sound record keeping, it also requires documentation from vendors before funds can be disbursed. Among others, vendors include recipients of scientific initiatives, the Journal Editor and Associate Editors, service providers (accountant, lawyer, outreach), and ISPRS memberships in organizations like ICSU. Practices for accounting Society's expenses have evolved over many years. In the 2004-2008, period we have tried to standardize these practices.

Credit Card payments for annual fees: In 2008 Council authorized credit card payments for annual member subscriptions. At present, only payments in USD are permitted because the Society has no official address in Switzerland. Such an address would permit payments in USD, Euros, or CHF. When implemented, members will be able to submit their subscription fees via the ISPRS website and clicking on the PayPal payment option. The site prompts members for their ISPRS ID number and their membership type and category. When correctly entered, a payment page will appear requiring international credit card information and the amount to be paid. For the initial stage of operation, the Treasurer will send an email invoice to each member. This invoice will contain the member ID and correct amount of the payment (including arrears), which then can be used to execute the payment. No partial payments are accepted through this payment option. Also, a nominal fee is automatically charged by the service provider; but this fee is much smaller than the fee typically charged by

banks for electronic transfers. Moreover, no 3rd party bank fees are assessed.

Future enhancements: Electronic transfers and credit card payments hold the potential for alleviating time-consuming functions that now require hands-on attention by the Secretary General and Treasurer. By creating a password-protected area on the webpage, and by migrating the credit card payment option to this sector, each member's contact information could be updated automatically every time a payment is made. It would also permit receipts to be generated for the member at the time of payment.

Support for ISPRS Awards:

- In-Kind Contributions: We applaud our fellow members who have collectively sponsored more than 14,000 CHF to support the Brock, Otto Von Gruber, Gino Cassinis, Eduard Dolezal, Schwidefsky, and Schermerhorn awards.
- Direct Contributions: In addition, we thank sponsors who donated over 20,000 CHF directly to ISPRS for various awards. These are: Leica Geosystems and Elsevier for their support of the U.V. Helava award; Leica Geosystems for donating travel funds to cover two Youth Forum awards; the European Science Foundation for providing travel and expense funds for six of the fifteen Young Authors; and to the ISPRS Foundation for the Sherman Wu, Wang Zhizhuo, and CATCON awards, and part of the Nanjing summer school.

**Financial Summary January 1, 2005 to May 30, 2008 (CHF)**

As seen in Table 3, 2005 was an expensive year for the Society, primarily due to development of several promotional items. The period from 2006 to May 30, '08 experienced positive net income, which was carried over to the next fiscal year. The large positive net income for 2008 does not include income or expenditures for the XXI Congress.

**Investments**

The Society's investments (referred to by UBS as "custody accounts") yielded 25,131.53 CHF in dividends

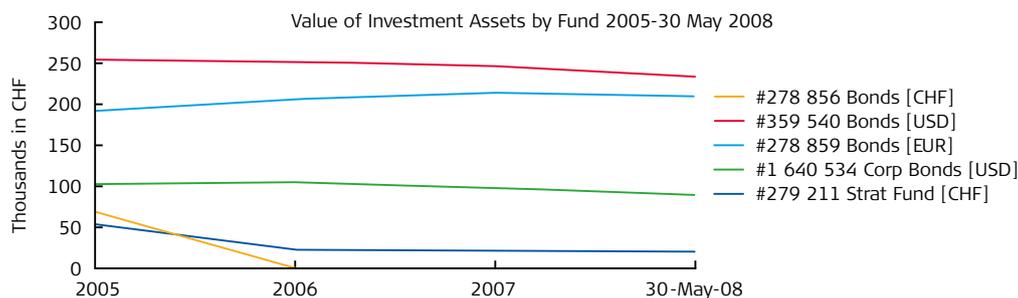
Table 4 Income and Expenses

	2005	2006	2007	May 30, '08
Income	138,591	196,457	144,126	124,603
Expenses	190,273	145,210	140,758	58,351
Net Income	51,681	51,247	3,367	66,251

See Table 1 for an explanation of income, expenses, and net income

during the 2005 to 30 May 2008 period. These dividends were re-invested in the bond funds from which they were earned. The chart above shows the annual end-of-year values for each of the investment funds, 2005-2007 and the value in 2008 as of 30 May. Bond fund #278856 (green line) was transferred in its entirety to the ISPRS Foundation in 2006, thus the

zero value in 2007 and 2008. Strategy fund #279211 (red line) declined in 2006 because 251 units were transferred to the ISPRS Foundation. It has remained fairly flat in 2007 and early 2008. The two USD bond funds (blue and black lines) continue to decline due to the declining value of the US dollar (source: 2007 Annual Report to FinCom).



For annual budget planning purposes, Council should expect that only about half of the members will pay their subscriptions. Table 4 is instructive in that it shows how much revenue is not received each year by members who accumulate arrears. Council should re-evaluate the meaning of arrears as they apply to various types of membership. Ordinary Members, for example can lose their voting privileges and, in worst cases, can

be expelled by not settling their accounts. However, many Sustaining Members view their participation as optional on an annual basis. Perhaps there should be a distinction between "Sustaining Members" who truly do pay each year and sustain the Society, and "Corporate Sponsors" who choose to participate only in Congress years.

Table 5 Total Fees Due and Received in 2007 (CHF) (includes arrears prior to 2007)

	Due 1.1.07	Received by 31.12.07	Difference	% paid
OM	114,512.00	58,275.13	56,236.87	51%
SM	87,546.00	47,728.80	39,817.20	55%
RM	1,300.00	858.26	441.74	66%
AM	5,500.00	2,481.46	3,018.54	45%
Total	208,858.00	109,343.65	99,514.35	52%

Note: This table represents the total amount due by type of member in CHF on 1 January 2007 and the amount actually received as of 31 Dec. 2007. The total amount due includes the 2007 fees plus arrears from previous years.

### Summary Recommendations

1. In the 2008-2012 Quadrennium, Council should consider modernizing the operational role of the Society's Treasurer on Council by providing an assistant for the position. Reason: The workload is too much for a single person to handle on a daily basis as a volunteer.
2. Council should modernize the terms of reference for the Financial Committee so that its role and functions are realistic and clearly articulated. Reason: The current role and functions have been superseded in part by Incorporation and regulatory compliance.

3. Council should modernize the Society's webpage to include a "members only" privileged area protected by a firewall. Reasons: (1) Credit card payments for member fees are expected to grow in number and will require additional levels of web security to reduce liabilities; (2) the Secretary General requires an efficient (automatic, hands-off) means for maintaining the membership database.

4. Treasurer should work with the Financial Commission to develop and document proof of purchase required on receipts submitted for reimbursement, as well as a list of allowable subsistence expenses. Reason: Presently

there are no internally agreed-upon minimum standards for receipts, or allowable maximums for living expenses.

5. Treasurer should explore alternative banking institutions to UBS. Reasons: (1) to find a more flexible bank to handle ISPRS financial requirements; (2) to settle the question of the Society's permanent address;

(3) to obtain advice on investments.

6. Council should take a systems approach to the next strategic planning process. Reasons: (1) to insure that strategic objectives are harmonized with financial resources; (2) to avoid piecemeal solutions to more complex issues.

# REPORT OF ISPRS JOURNAL EDITOR-IN-CHIEF GEORGE VOSSelman TO THE GENERAL ASSEMBLY FOR 2004-2008

## Summary of major developments

Manos Baltasvias handed over his tasks as Editor-in-Chief of the ISPRS Journal to George Vosselman at the end of 2004. At the same time Marguerite Madden, later succeeded by Ling Bian, and Eberhard Gülch were appointed associate editor. After handling and accepting many papers in the years 2005-2007, the ISPRS Journal is back on schedule as of the end of 2007. In a new contract with Elsevier the number of journal pages per volume will increase substantially to accommodate the larger numbers of accepted papers in the years ahead. A new web-based paper handling system, the Elsevier Editorial System (EES), has been introduced in 2005. The number of downloads of papers from ScienceDirect as well as the number of citations to papers published in the ISPRS Journal doubled in the past four years. The U.V. Helava Award for the best paper of the years 2004-2007 has been awarded to Martin Raubal, Stephan Winter, Sven Teßmann, and Christian Gaisbauer for their paper "Time geography for ad-hoc shared-ride trip planning in mobile geosensor networks".

Year	2004	2005	2006	2007
# issues	6	5	9	8
# papers	20	22	47	45
# pages	326	356	650	638

Volume	59	60	61	62
# issues	6	6	6	6
# papers	25	31	30	35
# pages	388	440	426	492

## 1. Changes in the editorial team

After the 2004 congress in Istanbul, Manos Baltasvias (ETH Zürich, Switzerland), after serving the ISPRS Journal for seven years, transferred the editorship to George Vosselman (ITC, the Netherlands). At the same time Marguerite Madden (University of Georgia, USA) and Eberhard Gülch (Stuttgart University of Applied Sciences, Germany) were appointed associate editor. Olaf Hellwich (University of Berlin, Germany) continued to work as associate editor. As of January 2006, Marguerite Madden was succeeded by Ling Bian (State University of New York at Buffalo, USA). Based on their areas of expertise the papers submitted to the journal are assigned to the editors by the Editor-in-Chief. Ling

Bian handles papers on optical remote sensing. Olaf Hellwich is responsible for papers on radar remote sensing and close-range photogrammetry. Eberhard Gülch handles papers on aerial photogrammetry and GIS and George Vosselman handles papers on airborne and terrestrial laser scanning as well as communication with the ISPRS Council, Elsevier, and guest editors of theme issues. To balance the working load of the editors, papers occasionally are assigned otherwise.

## 2. New editorial advisory board

As of January 2005 a new editorial advisory board was installed. The size of the board was reduced to 24 members. The expertise of the board members is equally distributed over the three main fields of the ISPRS: photogrammetry, remote sensing and spatial information sciences.

## 3. Publications

### 3.1 Statistics on publications

At the start of 2004, the ISPRS Journal was running four issues behind schedule. As the new editors had to start processing many manuscripts from scratch, the backlog increased to five issues by the end of 2005. Thereafter a large number of submitted papers has been processed resulting in a large number of publications in the years 2006 and 2007. By the end of 2007 the journal was back on schedule. When the journal is running on schedule all issues of a volume are published in one year. As this was not the case in the past four years, the number of publications is give both per volume and per year.

The contract between ISPRS and Elsevier specifies that the journal will contain 6 issues per year of 85 pages each. From the left table it is clear that the number of published pages has been lower than the contractual 510 pages per year. Thin issues were published on purpose to get back to schedule faster and satisfy the expectations of libraries subscribing to the journal. To compensate for these thin issues, the number of pages that will be published in 2008 will be 150 above the contractual 510. At the time of writing all papers that will be published this year already have been accepted. Most of these papers are already typeset and available as article in press. To avoid building up a queue of accepted papers that are waiting for publication, the number of pages per volume will be increased in the

next contract between the ISPRS and Elsevier (see below for further information on the new contract).

The average paper size is 13.6 journal pages. This number is rather constant over the years. The number of pages used for announcements, editorials, reviewer acknowledgements and other non-paper publications decreased from about 30 in volume 59 to 16 in volume 62. The main reason for this decrease is that the indices with keywords are no longer published in the last issue of a volume. In the age of search engines, indices have become superfluous.

### 3.2 Theme issues

Ten theme and special issues have been published since 2004:

- Integration of Geodata and Imagery for Automated Refinement and Update of Spatial Databases. Guest editors: Christian Heipke, Kian Pakzad, Felicitas Willrich (all from the University of Hannover, Germany), and Ammatzia Peled (University of Haifa, Israel). Published in volume 58, issues 3-4, January 2004.

- Advanced Techniques for Analysis of Geo-spatial Data. Guest editors: Wenzhong Shi, Zhilin Li (both from The Hong Kong Polytechnic University, Hong Kong), and Yvan Bedard (Pavillon Casault University of Laval, Canada). Published in volume 59, issue 1-2, August 2004.

- Remote sensing and geospatial information for natural hazards characterisation. Guest editors: Earnest D. Paylor II (Pacific Disaster Center, USA), Diane L. Evans (Jet Propulsion Laboratory, USA), and David M. Tralli (Jet Propulsion Laboratory, USA). Published in volume 59, issue 4, June 2005.

- Advances in spatio-temporal analysis and representation. Guest editor: Donna J. Peuquet (The Pennsylvania State University, USA). Published in volume 60, issue 1, December 2005.

- Extraction of topographic information from high-resolution satellite imagery. Guest editors: Manfred Schroeder (German Aerospace Centre, Germany), Clive Fraser (University of Melbourne, Australia), and Alain Baudoin (CNES, France). Published in volume 60, issue 3, May 2006.

- Digital aerial cameras. Guest editors: Christian Heipke (University of Hannover, Germany), John Mills (University of Newcastle, United Kingdom), and Karsten Jacobsen (University of Hannover, Germany). Published in volume 60, issue 6, September 2006.

- Airborne and spaceborne traffic monitoring. Guest editors: Stefan Hinz (Technical University Munich, Germany), Richard Bamler (German Aerospace Center, Germany), and Uwe Stilla (Technical University Munich,

Germany). Published in volume 61, issue 3-4, December 2006.

- Young author award papers of the Istanbul Congress. No guest editor. Published in volume 62, issue 2, June 2007.

- From Sensors to Systems: Advances in Distributed Geoinformatics. Guest editors: Peggy Agouris (University of Maine, USA), Matt Duckham (University of Melbourne, Australia), and Arie Croitoru (University of Maine, USA). Published in volume 62, issue 5, October 2007.

- Terrestrial laser scanning. Guest editors: Derek Lichti (Curtin University of Technology, Australia), Norbert Pfeifer (Vienna University of Technology, Austria), and Hans-Gerd Maas (Dresden University of Technology, Germany). Published in volume 63, issue 1, January 2008.

Currently, the following theme issues are under preparation.

- Remote Sensing and GIS for Coastal Ecosystem Assessment and Management. Guest editor: Xiaojun Yang (Florida State University, USA).

- Mapping with SAR - Techniques and Applications. Guest editors: Andreas Reigber (Berlin University of Technology, Germany) and Laurent Ferro-Famil (University of Rennes 1, France).

- Visualization and Exploration of Geospatial Data. Guest editors: Jochen Schiewe (University of Osnabrueck, Germany) and Marguerite Madden (The University of Georgia, USA).

- Image analysis and image engineering in close range photogrammetry. Guest editors: Hans-Gerd Maas (Dresden University of Technology, Germany) and Thomas Luhmann (University of Applied Sciences Oldenburg, Germany).

### 3.3 Countries of origin of contributions

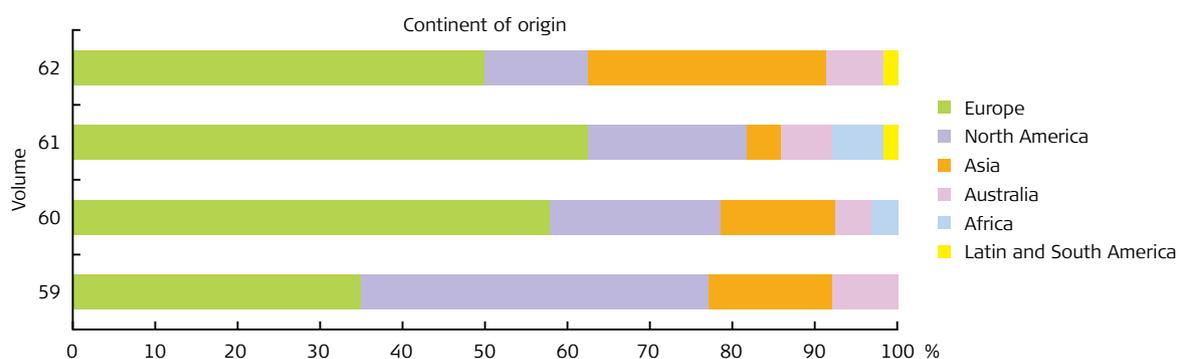
The table below lists the countries of origin of the contributions per volume for the last four volumes. In case a paper was written by authors from multiple countries, the count was distributed over these countries. Hence, when two authors are from country A and one from country B, countries A and B contributed 2/3 resp. 1/3 of the paper.

Contributions have been published from all continents. The larger part of the contributions clearly comes from Europe and North America. Last year's volume 62 also showed a large contribution from Asian countries. Within Europe only two contributions from eastern European countries were published. Contributions from nine different Asian countries were received. China and

India are responsible for the largest part. Contributions from Latin and South America as well as Africa are rare.

The five most publishing countries together contributed more than 50% of the publications.

Country	59	60	61	62	Total	%
USA	8.0	4.5	5.1	1.4	19.0	15.7%
Germany	1.3	3.3	9.3	4.8	18.6	15.3%
Netherlands	2.0	0.5	3.8	2.2	8.5	7.0%
China	2.0	0.8		5.3	8.1	6.7%
Canada	2.5	1.9	0.7	3.0	8.1	6.7%
Australia	2.0	1.3	1.8	2.5	7.7	6.3%
Austria	1.0	4.0		1.0	6.0	5.0%
Spain		2.8	1.0	1.5	5.3	4.4%
Switzerland	1.0	2.3	0.5	1.2	4.9	4.1%
United Kingdom		1.0	1.2	2.0	4.2	3.4%
India	1.0	1.0	1.0	1.0	4.0	3.3%
France	0.5	2.1		1.2	3.8	3.1%
Greece		1.0		2.4	3.4	2.8%
Finland	1.0	1.0		0.9	2.9	2.4%
Italy	2.0			0.3	2.3	1.9%
Algeria		1.0	1.0		2.0	1.7%
Japan				2.0	2.0	1.7%
Thailand		1.0	0.3	0.5	1.8	1.5%
China Taipei				1.0	1.0	0.8%
Estonia			1.0		1.0	0.8%
Hungary			1.0		1.0	0.8%
South Korea		1.0			1.0	0.8%
Sweden			1.0		1.0	0.8%
Iran	0.8				0.8	0.6%
Brazil				0.6	0.6	0.5%
Israel		0.5			0.5	0.4%
Mexico			0.5		0.5	0.4%
South Africa			0.5		0.5	0.4%
Uganda			0.3		0.3	0.3%
Singapore				0.3	0.3	0.2%
<b>Total</b>	<b>25</b>	<b>31</b>	<b>30</b>	<b>35</b>	<b>121</b>	<b>100.0%</b>



#### 4. U.V. Helava Award

The U.V. Helava Award, sponsored by Elsevier B.V. and Leica Geosystems GIS & Mapping, LLC, is the prestigious ISPRS Award for the best publication in the ISPRS Journal in a four year period between the congresses. It was established in 1998 to encourage and stimulate submission of high quality scientific papers to the ISPRS Journal, to promote and advertise the Journal, and to honour the outstanding contributions of Dr. Uuno V. Helava to research and development in Photogrammetry and Remote Sensing. For the years 2004-2007 the Helava Award Jury, comprising five experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, determined the best paper of each year. These best papers are.

2004: A layered stereo matching algorithm using image segmentation and global visibility constraints by Michael Bleyer and Margrit Gelautz.

2005: Recent developments on direct relative orientation by Henrik Stewénius, Christoph Engels and David Nistér.

2006: Range determination with waveform recording laser systems using a Wiener filter by Boris Jutzi and Uwe Stilla.

2007: Time geography for ad-hoc shared-ride trip planning in mobile geosensor networks by Martin Raubal, Stephan Winter, Sven Teßmann, and Christian Gaisbauer.

The Helava Award Jury selected the best paper of 2007 by Martin Raubal, Stephan Winter, Sven Teßmann, and Christian Gaisbauer as the winner of the 2004-2007 Helava Award.

#### 5. Impact factor and citations

The field impact factor of year X is defined as the number of citations in the year X to articles published in the years X-1 and X-2 divided by the number of articles published in the years X-1 and X-2. It is a widely used statistic to evaluate the quality of a journal. From 2003 to 2004 the impact factor of the ISPRS Journal made a jump from 0.472 to 1.317. Since then it has been roughly at the same level. With this impact factor the ISPRS Journal is the 2nd or 3rd ranked journal of the 10 journals in the field of remote sensing. Because of the relatively low number of publications in the ISPRS Journal the impact factor is rather unstable. The decrease of the factor by 0.3 from 2005 to 2006, e.g., can be completely explained by the citations to a single publication in 2003. This publication no longer counts for the citation index in 2006. The citation index is likely to fluctuate in future.

Year	2003	2004	2005	2006
Impact factor	0.472	1.317	1.674	1.381
Total cites	301	452	447	632

Remarkable in the (not shown) statistics on citations is that 50% of the published articles is never cited. For the top journal in the field (Remote Sensing of Environment) this number is only 25%.

A positive development is the total number of citations to articles in the ISPRS Journal. This number continues to grow and doubled in the period 2003-2006. The citation analysis for 2007 was not yet known at the time of writing this report.

#### 6. Paper handling

##### 6.1 Elsevier Editorial System

On March 14, 2005, the Elsevier Editorial System (EES) has been launched for the ISPRS Journal. EES replaced the old Elsubmit system for paper submission and offers completely web-based communication between authors, reviewers, the Editor-in-Chief, associate editors, and Elsevier. To prepare for EES, the editorial workflow was precisely described, a classification scheme was introduced, a reviewer database was created and an introduction course was taken by all associate editors and the Editor-in-Chief. The classification scheme can be used to select reviewers by matching their expertise with the classes assigned by authors to their submitted manuscripts. Experiences made so far with EES are very good. It allows the editors to easily keep an overview on the status of the various manuscripts they need to handle and offers facilities to send reminders to authors and reviewers when revisions or reviews are late.

By coincidence, the ISPRS Journal happened to be the 500th journal (out of the 1700 Elsevier journals) to migrate to EES. The Editor-in-Chief went to the Elsevier headquarters in Amsterdam to join a small celebration and used the event to meet some Elsevier staff.

##### 6.2 Acceptance rate

Currently, about one third of the papers submitted to the ISPRS Journal is accepted for publication. The tendency over the last four years is a small decrease in the percentage of accepted papers. The large numbers of accepted papers in 2006 and 2007 are partly caused by the elimination of the backlog in processing submitted papers. Some of these papers were submitted in 2004 or earlier. On the other side, the number of paper submissions to the ISPRS Journal also increased. In 2007 about 180 papers were offered

for review. Unfortunately, many papers have a very low quality. To speed up the processing and to avoid irritation of reviewers the weakest papers are rejected without reviews. This is the standard policy for most journals.

Year	2004	2005	2006	2007
# final decisions	63	48	160	169
# accepted papers	25	20	59	59
# rejected papers	38	28	101	110
Acceptance percentage	40%	42%	37%	35%

In five cases papers have been rejected because of plagiarism. The plagiarism varied from large sections of text copied verbatim to systematically paraphrasing introductory paragraphs. In particular the latter kind of plagiarism is difficult to detect. They are often brought to attention by the authors of the original text when they were invited to review.

Although authors need to certify that the submitted publication is only offered for publication to the ISPRS Journal, parallel submission to another journal, most often Photogrammetric Engineering & Remote Sensing, was noted in a couple of cases. This is often noted by reviewers that are invited by two journals to review one and the same paper. The policy of the ISPRS Journal, and also of most other journals, is to reject the manuscript in case parallel submission is identified.

### 6.3 Processing times per stage

On the average in the last two years it took about half a year to reach a final decision on the acceptance or rejection of a submitted manuscript. Compared to other journals this is a bit long. The half a year is an average value which also includes the handling of low quality papers that may have been rejected within a few days.

For papers of theme issues the handling time may be somewhat above the average as the guest editors often wait until the review results of all submitted papers are known before starting to make decisions. For some of these papers review results may then already be known for many weeks.

Number of weeks needed	2006	2007
Until first decision	14.9	15.6
Paper revision by author	7.6	7.3
Until final decision	23.6	27.8

For some papers it is very difficult to find reviewers. In particular for the weaker and therefore less interesting papers, the editors sometimes have to send out ten invitations in order to find two peers willing to review. Such papers often experience long reviewing times.

## 7. Subscriptions

### 7.1 Number of subscriptions per type

The table below shows the number of subscriptions to printed issues by the end of December of the last three years. Numbers of e-subscriptions could not be obtained. The number of people that have access to the on-line version of the ISPRS Journal is difficult to assess as many universities have site licenses to access all journals in a specific domain (e.g. Earth sciences). From the number of paper downloads (see further down) it is clear that most papers are accessed through some kind of e-subscription. Printed issues nowadays only play a minor role in the distribution of scientific developments.

### 7.2 Free subscriptions

On Council's request Elsevier made an offer for e-subscriptions for all members of the ISPRS (i.e. one representative per member society). Costs for such a bulk subscription would be US\$ 25. Elsevier set up the website <http://www.sciencedirect.com/isprsjprs> for e-access to the ISPRS Journal that can be used by individuals. This site will also be used for new requested subscriptions. It is intended to offer this service as of volume 64 in 2009.

In 2006, ISPRS Council also offered up to fifteen complimentary subscriptions to the ISPRS Journal for all academic, research and other public institutions in developing countries, which are unable to fund the US\$ 45 subscription.

Subscription type	Dec. 2005	Dec. 2006	Dec. 2007
Normal	236	193	203
Personal subscription of individuals working in a company with a normal subscription	1	0	0
Member of a national society	28	39	28
Other	8	9	2
Gratis	75	67	40
<b>Total</b>	<b>348</b>	<b>308</b>	<b>273</b>

## 8. Online journal access

### 8.1 Paper downloads

Papers are available on-line through the Elsevier website [www.sciencedirect.com](http://www.sciencedirect.com). As can be seen from the table below, the number of downloaded papers strongly increased from 2006 to 2007. This may be partly explained by the increased number of published papers in these years, but probably also shows that more and more readers are using web services instead of printed issues to monitor progress in our field of science.

Year	2004	2005	2006	2007
# downloads	53835	55969	68498	99949

### 8.2 Photogrammetria online

All old issues of the ISPRS journal between 1938 and 1964, called Photogrammetria at that time, have been digitised and are available through ScienceDirect since 2005. These back issues are accessible after a one time payment of 100 US\$.

### 8.3 Journal web pages

The ISPRS website of the journal has been updated and transferred to <http://www.itc.nl/isprsjournal>. This site is targeting the ISPRS community with information on calls for papers, announcements of Helava awards and special subscription rates. In 2007 this website was visited by 963 unique visitors per month. Statistics for earlier years are not available.

Elsevier continues to operate the regular ISPRS journal website <http://www.elsevier.com/locate/isprsjpr>. In cooperation with Elsevier the author instructions have been completely revised and are now shown on the Elsevier website.

## 9. Elsevier

### 9.1 New contract

A new contract will be signed between ISPRS and Elsevier for publication of the ISPRS Journal in the years 2009-2012. In the negotiations with Elsevier the focus has been on a strong increase in the number of pages per volume while keeping the increase of the subscription fees limited.

In the past two years we have been accepting almost 60 papers per year for publication. With an average paper size of 13.6 pages, about 800 pages are needed on a yearly basis. Under the current contract, we may publish only 510 pages per year. Hence, to avoid that the journal builds up a queue of accepted papers waiting for publication, we need to either strongly

increase the number of pages per volume or to lower the acceptance rate. Preference is given to the first option.

After a few iterations, Elsevier offered to increase the number of pages such that the 60 pages per year can be accommodated. The 57% increase in the number of published articles will lead to increases of the subscription fees in 2009 of 7.5% for e-subscriptions and 10% for paper subscriptions. These increases already include the 3% correction for inflation in the past year. Thus, the quite large increase in the number of pages will only lead to a small increase in subscription fees.

With the start of volume 64 in 2009, the journal will change to the A4 paper format and a different layout. Instead of 800 pages in the old format, only 600 pages in the new format will be required to accommodate the 60 papers per year. This change of format also enabled Elsevier to keep the subscription increase limited. As more and more papers are downloaded from online resources (and often printed on A4 paper), it makes sense to also use A4 as the paper format for the journal.

### 9.2 Personnel changes at Elsevier

Since the past congress in Istanbul four different Publishing Editors were appointed at Elsevier to look after the editorial management of the ISPRS Journal and support and develop the portfolio, in particular the customer support. Luckily, no changes occurred since Christine Erb took this position two years ago. Next to the Publishing Editor Elsevier also appointed a Publisher (Nicolette van Dijk), who is responsible for contracts, pricing policy, and marketing at conferences for all journals on Environmental Sciences and Remote Sensing. Frequent contacts are also maintained with the Journal Manager (Margaret Blackler) who is assisting with the online submission process, compiles the issues and deals with the whole production process after papers have been accepted.

### 9.3 Change of typesetter

In the past authors complained about problems with the typesetting of LaTeX papers. The typesetter contracted by Elsevier had no knowledge of LaTeX and had to set everything new. Consequently, many mistakes were made in formulas. About 25% of the accepted papers is prepared with LaTeX, the rest with MS Word. Upon request Elsevier moved the ISPRS Journal to another typesetter with more LaTeX knowledge starting with the papers of issue 63/4 this year.

## 10. Outlook

Now that the paper handling process is well under control and a large number of papers has been accepted in the previous two years, the challenge is to consolidate this much higher volume. The theme issues proved to contribute significantly to the high number of accepted manuscripts. With the larger issues sizes in 2009 and later, the number of submissions to could be risen a little further to ensure that a complete issue can

be devoted to the theme. The current planning of two theme issues on a total of six issues per year works well.

Next to theme issues, it is also planned to invite experts to contribute review papers on recent developments. E.g., in the area of remote sensing, papers are or will be solicited on support vector machines, object based classification and thermal remote sensing.

# REPORT OF ISPRS SECRETARY GENERAL ORHAN ALTAN TO THE GENERAL ASSEMBLY FOR 2004-2008

Distinguished Delegates, Ladies and Gentlemen,

It is my great pleasure to present my report on the activities of the Secretary General since the last Congress in ISTANBUL.

The past four years have been very busy which provides promise for the next four years. The Society has consolidated its role as an international society representing the areas of the photogrammetry, remote sensing and spatial information sciences and has made continuing progress towards its acceptance as an international representative of these sciences. As Secretary General I was responsible for the day to day running of the Society, and in particular for acting as secretary for the meetings of Council, the General Assembly and for co-coordinating the activities of the Technical Commissions. I was also responsible for managing the publications of the Society; this includes the Archives, Highlights and the web pages, the ad hoc publications such as the Silver Book and Blue Book and publicity materials such as brochures and the prospectus. The Secretary General also attends meetings on behalf of the Society and represents the Society on occasions in place of the President. In carrying out these tasks I am highly dependent on the cooperation of many people and I would like to thank all members of the Society and the supporting organizations who have assisted me so willingly during the past four years, without whose help I could not carry out the job properly.

## CORRESPONDENCE

Most ISPRS correspondence is now carried out by email. This makes the running of a Society easier than when everything had to be done on paper. Correspondence covers all aspects of the work of the Society including member records, approving meetings and publications and dealing with the many organizations with which we have contacts. Although email makes life much easier, not all Members use email, or have not informed me of their email address. It would help future Secretaries General enormously if all correspondence with members could be done by email.

## TECHNICAL COMMISSIONS

The Technical Commissions (TCs) have been particularly active during the past four years. Seven of the eight TCs held very successful symposia in 2006, but unfortunately the symposium of the TC VIII has to be cancelled due to severe security problems in Israel. Nearly 2000 delegates were registered at the Symposia, which includes participants in combined meetings, particularly of TCs II and III. Table 1 gives full details of the symposia.

Some Technical Commissions used a double blind review process of submitted papers during their symposia. This trend was also used in several WG meetings and ISPRS welcomes this approach to achieve higher quality scientific papers. We have also seen this practice at this Congress by Technical Commission III.

Table 1 Summary of Technical Commission Symposia

Comm	Venue	Dates	Total Attendance	Total Papers	Partners
I	Paris	4-6 July	207 (30 countries)	29 peer reviewed (Part A proc.) 45 full papers and 21 abstracts (Part B proc.)	
II	Vienna	10-14 July	TCII Symp. 37 SDH: 108 CECC: 143 Total: ~400	SDH: 56 CECC: 39 TCII Symp. 27	Cent. Europ. Cart. Con.(CECC) 12th Int. Symp. on Spatial Data Handling (SDH)
III	Bonn	20-22 Sept.	123 (14 countries)	From 70 submitted full papers 44, 24 (oral) 20 (poster) after double blind review process	
IV	Goa	27-30 Sept.	325 (23 countries)	161 (oral) 50 (poster)	ISRS
V	Dresden	25-27 Sept.	243	72 (oral) 40 (poster)	
VI	Tokyo	27-30 June	250 (28 countries)	53 papers	
VII	Enschede	8-11 May	500	108 (oral) 129 (poster)	

In addition to the symposia, there have been more than 61 meetings of Working Groups (WGs) in 29 different countries. Very few WGs have been inactive in this area, with most having held at least one workshop. Often meetings have been organized jointly between two or more working groups. WGs have also conducted international tests, sometimes in collaboration with other organizations such as EuroSDR and EARSeL, Computer Vision Society, Institute of Navigation (ION), CIPA/VAST, ISO, SPIE and many others. At the beginning of 2005 a sample mock-up for

website preparation was distributed to all Technical Commissions and WGs, for establishing and maintaining their websites with similar layout and information context. This tool has been useful and was pursued by personnel at the HQ and missing links or information in web sites was regularly distributed to all 60 WGs for completion. In this digital age, all information is disseminated through websites. This control process was time consuming but very useful, and I hope that in the future this will be followed by the coming Secretaries General.

## MEMBERSHIP

### Ordinary members

Not all Members have kept up to date with their subscriptions and this issue will be dealt with at this General Assembly. The following Ordinary Members have been admitted since the Istanbul Congress:

ID	Member Name	Country/Region	Category	Membership Date
10105	The Geoinformation Society of Nigeria	Nigeria	1	21.06.2006
10106	Survey Institute of Zimbabwe	Zimbabwe	1	01.01.2008
10108	Centre de Suivi Ecologique	Senegal	1	20.02.2008

The following Ordinary Members have been excluded in the Istanbul Congress:

ID	Member Name	Country/Region	Category	Exclusion Date
10001	Albanian Society of Geodesy, Cartography and Photogrammetry	Albania	1	19.07.2004
10008	State Committee for Land Resources, Geodesy and Cartography	Belarus	2	19.07.2004
10011	Instituto Geografico Militar	Bolivia	1	19.07.2004
10023	Direction of Cadaster & Topography	Congo DRC	1	19.07.2004
10032	Mapping & Remote Sensing Centre	Eritrea	1	19.07.2004
10057	Association de Photogrammetrie et Teledetection	Madagascar	1	19.07.2004
10068	Geoinformation Society of Nigeria	Nigeria	3	19.07.2004
10074	Associacao Portuguesa de Fotogrammetria e Deteccao Remota	Portugal	2	19.07.2004
10084	Sudan Society of Photogrammetry	Sudan	1	19.07.2004
10091	Office de la Topographie et de la Cartographie	Tunisia	1	19.07.2004
10100	Union of Geodetic Engineers & Geometres of Yugoslavia	Yugoslavia	2	19.07.2004
10101	Agence Nationale de Meterologie et de Teledetection per Satellite(METTELSAT)	Congo PRC (Zaire)	1	19.07.2004
10102	Surveyors Institute of Zambia	Zambia	1	19.07.2004
10103	Zimbabwe Society for Photogrammetry, Remote Sensing & Cartography	Zimbabwe	1	19.07.2004

The following Ordinary Members were warned for non-payment of their subscription fees 2 years after the Istanbul Congress and were subsequently excluded due to their continued non payment:

ID	Member Name	Country/Region	Category	Exclusion Date
10006	Azerbaijan National Committee for Photogrammetry, Remote Sensing and Geoinformatics	Azerbaijan	1	06.03.2007
10009	National Center for Remote Sensing & Forest Cover Monitoring	Benin	1	06.03.2007
10024	Comite Nat'l de Teledetection et d'Information Geographique	Cote D'Ivoire	1	06.03.2007
10085	Central Bureau for Aerial Mapping	Suriname	1	06.03.2007

The following Ordinary Members have been warned for non-payment of their subscription fees 2 years in the Istanbul Congress and have subsequently paid their dues, thus terminating the warning:

ID	Member Name	Country/Region	Category	Warning End Date
10044	State Commission on Survey	Iraq	1	07.06.2005
10094	National Society of Photogrammetry & Remote Sensing	Ukraine	3	?????

The following Ordinary Member has resigned since the Istanbul Congress:

ID	Member Name	Country/Region	Category	Resigned Date
10054	National Center for Remote Sensing	Lebanon	1	01.11.2007

Institute of Water and Atmospheric Research Ltd changed its name to Land Information New Zealand in 05.05.2008. There are currently 87 Ordinary Members.

### **Associate members**

The following Associate Members have been admitted since the Istanbul Congress:

ID	Member Name	Country/Region	Category	Membership Date
20002	Agustin Codazzi Geographic Institute - Research Center for Remote Sensing	Colombia	1	01.01.2008
20015	Chinese-Taipei Geoinformatics Society	Chinese Taipei	1	01.01.2006

The following Associate Members were excluded in the Istanbul Congress:

ID	Member Name	Country	Category	Exclusion Date
20002	Agustin Codazzi Geographic Institute - Research Center for Remote Sensing	Colombia	1	19.07.2004
20011	KN Toosi University of Technology	Iran	1	19.07.2004
20012	Tehran Geographic Information Center	Iran	1	19.07.2004

The following Associate Member has resigned since the Istanbul Congress:

ID	Member Name	Country/Region	Category	Resigned Date
20001	Land Information Management Department of Natural Resources (Queensland)	Australia	1	26.05.2005

The following Associate Member was warned for non-payment of their subscription fees 4 years ago at the Istanbul Congress:

ID	Member Name	Country/Region	Category	Warning Date
20006	Geo-Spatial Information Systems	Korea	1	19.07.2004

There are currently 10 Associate Members.

## Regional members

The following Regional Member has been admitted since the Istanbul Congress:

ID	Member Name	Membership Date
30013	Regional Centre for Mapping of Resources for Development	01.01.2005

The following Regional Member was excluded in the Istanbul Congress:

ID	Member Name	Exclusion Date
30003	CILSS/AGRHYMET Regional Centre	19.07.2004

The following Regional Members have been warned for non-payment of their subscription fees 4 years ago at the Istanbul Congress:

ID	Member Name	Warning Date
30008	SELPER	19.07.2004
30005	African Association of Cartography & Remote Sensing (OACT)	19.07.2004

There are currently 12 Regional Members.

## Sustaining members

The following Sustaining Members have been admitted since the Istanbul Congress:

ID	Member Name	Country/Region	Category	Membership Date
40071	Mescioglu Engineering Co.	Turkey	D	01.01.2005
40072	BAE Systems	USA	B	01.01.2005
40073	SEPRET Ingenieurs Conseils S.A.R.L.	Morocco	D	01.01.2005
40074	DSM GEODATA LIMITED	United Kingdom	D	01.01.2005
40075	Erdem Emi Mapping Information Construction and Transportation Industry Co.	Turkey	C	01.01.2005
40076	Topol Software	Czech Republic	D	01.01.2005
40077	Global Scan Technologies L.L.C.	United Arab Emirates	D	15.02.2005
40078	Earth Data Analysis Center	USA	E	06.03.2005
40080	PROSIGCONSULT	Romania	D	20.04.2005
40082	School of Civil Engineering and Geosciences, University of Newcastle upon Tyne	United Kingdom	E	30.05.2005
40083	Selcuk University Division of Photogrammetry	Turkey	E	01.01.2006
40085	Fac. of Geodesy, Univ. of Architecture, Civil Engineering and Geodesy - Sofia	Bulgaria	E	01.01.2006
40086	ITU Centre for Satellite Communications and Remote Sensing	Turkey	E	01.01.2006
40087	METU, Department of Geodetic and Geographic Information Technologies	Turkey	E	01.01.2006
40088	INTA SPACETURK INC	Turkey	C	01.01.2006
40089	GEOMETRAL, Tecnicas de Medição e Informática, SA	Portugal	C	19.01.2006
40090	Infoterra GmbH	Germany	C	17.02.2006
40091	GIS Center of Dubai Municipality	United Arab Emirates	C	16.03.2006
40092	GeoCad 93 Ltdi.	Bulgaria	C	01.01.2007
40093	Space Technologies Research Institute (TUBITAK-UZAY)	Turkey	D	17.01.2007

ID	Member Name	Country/Region	Category	Membership Date
40094	CycloMedia Technology BV	The Netherlands	C	26.04.2007
40096	University of Calgary Department of Geomatics Engineering	Canada	E	01.01.2008
40097	Siberian State Academy of Geodesy	Russian Federation	E	01.01.2008
40099	Center for Remote Sensing and Mapping Science	USA	E	01.01.2008
40100	Airborne Hydrography AB	Sweden	D	01.01.2008
40101	Istanbul Metropolitan Municipality/Directorate of Cartography (Mapping)	Turkey	B	10.01.2008
40103	SENSON LTD	Georgia	D	10.01.2008
40104	Institute of Engineering Surveying and Space Geodesy	United Kingdom	E	30.01.2008
40105	Virtual Geomatics	USA	D	04.03.2008
40106	GEO:CONNECTION Ltd.	United Kingdom	D	24.03.2008
40107	TRACK'AIR B. V.	Netherlands	D	29.04.2008
40109	Vexcel Imaging GmbH	Austria	C	01.06.2008

The following Sustaining Members have been resigned since the Istanbul Congress:

ID	Member Name	Country/Region	Category	Resigned Date
40065	Research Systems International UK Ltd	United Kingdom	D	17.01.2005
40048	Stora Enso Forest Consulting Oy Ltd	Finland	C	21.01.2005
40044	School of Surveying and SIS, University of New South Wales	Australia	E	30.06.2006
40039	Space Imaging Inc.	USA	C	21.12.2005
40037	TopEye AB	Sweden	D	31.12.2007
40011	DigitalGlobe Inc.	USA	C	13.10.2005
40008	Core Software Technology	USA	C	17.01.2005
40002	Aerial	France	D	31.12.2007
40012	Kodak Aerial Imaging	USA	D	31.12.2007

Z/I Imaging Corporation changed its name to Intergraph Corporation in 15.09.2005. There are currently 77 Sustaining Members.

## PUBLICATIONS

### ISPRS Journal of Photogrammetry and Remote Sensing

The ISPRS Journal is the premier publication in this area and has continued to maintain high standards during the four year period under the editorship of George Vosselman and the associate editors Ling Bian, Eberhard Gülch and Olaf Helwich. After three years of hard work by editors and guest editors, the ISPRS

Journal was back to its regular schedule when it started issue 63/1 in January 2008. Council decided in 2007 to provide more benefits for its Members and following an agreement with Elsevier, all Ordinary and Associate Members (without arrears in payment of subscriptions) have received unique passwords and ID coded to access the ISPRS Journal Webpage and to view all issues in digital form from 1984 until the last printed issue. A full report by the editor will be presented to the General Assembly.

## International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences

Table 2 lists the volumes approved for publication.

Vol No	Title	Comm/WG
XXXVI-1	Commission I Symposium "From Sensors to Imagery"	Comm I Symposium
XXXVI-2	Commission II Symposium "GICON 2006 - GeoinformationConnecting Societies"	Comm II Symposium
XXXVI-3	Commission III Symposium "Photogrammetric Computer Vision PCV206"	Comm III Symposium
XXXVI-4	Commission IV Symposium "Geospatial Databases for Sustainable Development"	Comm IV Symposium
XXXVI-5	Commission V Symposium "Image Engineering & Vision Meteorology"	Comm V Symposium
XXXVI-6	Commission VI Symposium "E-Learning and the Next Steps for Education"	Comm VI Symposium
XXXVI-7	Commission VII Symposium "Remote Sensing: From Pixels to Processes"	Comm VII Symposium
XXXVI-5/W1	International Workshop on Processing and Visualization Using High-Resolution Imagery	V/6
XXXVI-8/W2	Laser-Scanners for Forest and Landscape Assessment	VIII
XXXVI-1/W3	High resolution Earth Imaging for Geospatial Information	I/5
XXXVI-4/W4	Geoinformation for Disaster management	IV/8
XXXVI-4/W5	Annual conference of the ASPRS GIS Division	
XXXVI-4/W6	Service and Application of Spatial Data Infrastructure	IV/1
XXXVI-8/W7	31st International Symposium on Remote Sensing of Environment 'Global Monitoring for Sustainability and Security'	VIII/2-5-8-9
XXXVI-5/W8	2nd Panoramic Photogrammetry Workshop	V
XXXVI-4/W9	Workshop on "Landscape Modeling & Visualization"	IV/4
XXXVI-7/W10	IGARSS/ISPRS Remote Sensing and Data Fusion Symposium	VII/5
XXXVI-7/W11	4th EARSeL Workshop on Imaging Spectroscopy	VII/1
XXXVI-1/W12	International Conference on Advanced Remote Sensing for Earth Observation; Systems, Techniques, and Applications	I/4
XXXVI-8/W13	ForestSat 2005	VIII/11
XXXVI-1/W14	SAR and LiDAR Systems Workshop on Three-Dimensional Mapping from InSAR and LiDAR	I/2
XXXVI-2-4/W15	6th Joint ICA/ISPRS/EuroGeographics Workshop on Incremental Updating & Versioning of Spatial Data Bases	II-IV
XXXVI-4/W16	WG VI/7 Meeting with AOGS2005	IV/7
XXXVI-5/W17	"3D-Arch'2005" 3D Virtual Reconstruction and Visualization of Complex Architectures	V/4
XXXVI-2/W18	International Conference, with Beijing University, on "Spatial-Temporal modelling and Multi-source data Fusion and Integration	II/7
XXXVI-3/W19	"Laserscanning 2005"	III/3-4
XXXVI-7/W20	9th International Symp. on physical measurements and Signatures in Remote Sensing.	VII/1
XXXVI-7/W21	The Fourth International Symposium on Multispectral Image Processing and Pattern Recognition	VII/6
XXXVI-7/W22	International Image Processing Conference	VII/6
XXXVI-7/W23	Joint Session with 26th Asian Conference on Remote Sensing	VII/8
XXXVI-3/W24	Joint Workshop Object Extraction for 3D City Models, Road Databases and Traffic Monitoring - Concepts, Algorithms, and Evaluation	III/4-5
XXXVI-2/W25	International Symposium on Spatial-temporal Modeling	II/1
XXXVI-2/W26	4th International Symposium on spatial data quality	II/7
XXXVI-8/W27	3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas (URBAN 2005) 5th International Symposium Remote Sensing of Urban Areas (URS 2005)	VIII/1
XXXVI-3/W28	Workshop on Omnidirectional Vision, Camera Networks and Non-classical Cameras	III-V

Vol No	Title	Comm/WG
XXXVI-2/W29	4th ISPRS Workshop on Dynamic and Multi-dimensional GIS	II-IV
XXXVI-6/W30	Tools and Techniques for E-Learning	VI/2
XXXVI-3/W31	First International Workshop on Next Generation 3D City Models	III/4
XXXVI-3/W32	Towards Benchmarking Automated Calibration, Orientation and Surface Reconstruction from Images	III/1-2
XXXVI-1/W33	First South African International Workshop On Sensor Web Enablement	I/3
XXXVI-5/C34	CIPA 2005 XIX International Symposium	V
XXXVI-1/W35	Workshop to summarise the results of the SRTM	
XXXVI-8/W36	RSPSoc2005, "Measuring, Mapping and Managing a Hazardous World"	VIII/2-6
XXXVI-6/W37	Joint ISPRS workshop on disaster monitoring and assessment	VI/3-4-5 SIG II/2 VII/5-6 II/IV
XXXVI-4/C38	ITI 6th Arab GIS Conference (Arab Map 2005)	IV
XXXVI-2/W39	Workshop on Spatial/spatio-temporal Data Mining (SDM) and Learning	II/2
XXXVI-1/W41	Workshop on Topographic Mapping from Space	I/5-6
XXXVI-2/W40	Workshop Multiple Representation and Interoperability	II/3-6
XXXVI-3/W49	Photogrammetric Image Analysis (PIA07)	III/4-5, IV/3
XXXVI-3/W52	ISPRS Workshop Laser Scanning	III/3-4, V/3
XXXVI-4/W45	Workshop "Visualization and Exploration of Geospatial Data"	II/3-5, IV/4-6
XXXVI-1/W44	IC WG I/IV 2nd International Workshop "The Future of Remote Sensing"	I/V
XXXVI-5/C55	5th International Symposium on Mobile Mapping Technology (MMT2007)	ICWG I/V, I/2, V/3
XXXVI-4/C42	Bridging Remote Sensing and GIS - 1st International Conference on Object-based Image Analysis	IV/4, VIII/11
XXXVI-2/C43	International Symposium On Spatial Data Quality	II/7
XXXVI-7/C46	Conference on Information Extraction from SAR and Optical Data, with emphasis on Developing Countries	VII/2-7
XXXVI-5/W47	2nd International Workshop: 3D-ARCH'2007 3D Virtual Reconstruction and Visualization of Complex Architectures	V/4-2
XXXVI-8/W48	WG VIII/10 Workshop "Remote Sensing Support to crop yield Forecast & Area Estimates"	VIII/10
XXXVI-7/C50	10th Intl. Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS'07)	VII/1
XXXVI-1/W51	ISPRS Hannover Workshop 2007	I/5
XXXVI-5/C53	CIPA 2007 XXI International Symposium	V
XXXVI-7/C54	Mapping with out the Sun	VII/5-6
XXXVI-3/W56	BenCOS 2007 Towards Benchmarking Automated Calibration, Orientation and Surface Reconstruction from Images	III/1-2

Table 2 Issues of the International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences.

In addition Volume XXXV Part A, the Proceedings and Results of the Istanbul Congress, has been published, as well. A number of workshop proceedings have been published that are not part of the Archives; some proceedings have only been produced on digital media. As Secretary General it was one of my unsuccessful tries to harmonize the Archives Publications and make them available for all interested parties as online archives; but I must confess, that more than approximately 30% of the Archives are not produced according the Guidelines especially the format of it, so

that we cannot publish them on the Webpage of the Society. So we are going to loose a great source of information for the next generations.

For this purpose we had produced in October 2004 sample pages and guidelines (even including the Pantone Number for the unique color code of the covers) samples of digital and hardcopy pages of a Sample ISPRS Publication. But some organizers of the events does not read these instructions and produce several gigabytes of pdf file for one event, which does not allow doing a search for Author and Keyword index.

I hope that this improves in the next years.

### **ISPRS Highlights**

ISPRS Highlights have been published by GITC bv in The Netherlands, which have served the Society very well in producing a high quality bulletin which has been distributed on time to all ISPRS members and to individuals associated with ISPRS. I have edited Highlights for the past 4 years. 4 issues in each of 2004 and 2005 were produced, including three 64 page issues containing the Annual Reports for 2005 and 2006 and a report on the 2004 Congress. I am being supported by Tuan Chih Chen as Calendar Editor and Qiming Zhou as Book Review Editor. Council decided in 2006 to continue Highlights in digital form due to high production and distribution costs. The last paper form of Highlights was produced in March 2006 with the annual report of 2005. The number of email addresses of individuals who receive E-Highlights is over 3000. However the actual number now can be estimated at over 10,000 as many societies (such as ASPRS or the Swiss Society) distribute this new version of so called "E-Highlights" to their members internally.

### **ISPRS Book Series**

A new venture, starting in 2003, has been the ISPRS Book Series. This is to contain peer reviewed papers, either on a theme, or from a conference or workshop, and published by Taylor & Francis. Paul Aplin from United Kingdom is the ISPRS Book Series Editor and already 6 books have been published. A report from the editor will be presented to the General Assembly.

### **ISPRS Web pages**

Fabio Remondino, at ETH Zurich, has been the ISPRS webmaster for the past 8 years and has efficiently and enthusiastically managed the ISPRS website. The amount of material has increased enormously and it is now easy to navigate around the website and find all necessary information on ISPRS organizations and activities. In addition, Fabio has put many of the proceedings of meetings on the website and has set up a separate site for the ISPRS Foundation. ISPRS is very grateful for the support from ETH for this activity. A separate report will be presented to the General Assembly by the webmaster. After the Congress the new webmaster will be Marcus English from the Institute of Photogrammetry of the University Stuttgart.

### **ISPRS Database**

In 2000 it was decided that an efficient database should be set up for use of ISPRS officers and to allow

good communications between Council and Members. The software to serve ISPRS needs was written in Microsoft Access by Rachel Peled, who has done an outstanding job in setting up a highly practical system, and the database is now established and in use. The software data is maintained by the personnel at the Headquarters of ISPRS and used also by the Treasurer of ISPRS to generate invoices and trace the accounts of Members.

### **ISPRS Video and Prospectus**

During the ISPRS Congress in Istanbul there were numerous good examples of the sciences ISPRS is involved with that were presented at the Technical Sessions and the Exhibition. In 2005 Council decided to produce a high quality DVD from that material in order to publicize our sciences and the work of the Society. With the help of Gerhard Kemper and Council, especially First-Vice President Trinder and several institutions, who supported this DVD with material, 300 high quality DVDs were produced. This ISPRS Video for promoting the work and sciences of ISPRS activities has been prepared in 5 languages (English, French, German, Spanish and Turkish). It is distributed to our Members and sold to several institutions as teaching material at cost and shipping price of €30. The high quality and comparably low production cost of this DVD is admired by different organizations and Council decided to publish these examples as a hardcopy material. With the financial support of USD7,500 from INTERGARPH Corporation an ISPRS Prospectus of 32 pages in high quality printed material was published in 2 versions in a total number of 7,000 prints. The ISPRS video is placed to the Website as a streaming video type copy only in English. Also the high quality pdf files of all pages of the ISPRS prospectus are placed on the webpage for download. A sample (only the English version) of the Video is placed in the invitation packages for recruiting new members to ISPRS.

### **Ad Hoc publications**

The following publications have also been produced:  
ISPRS Organization and Program (Silver Book), 2004-2008  
ISPRS Members List (Blue Book), 2005  
ISPRS Manual of Operations for ISPRS Technical Commissions and Working Groups, 2005  
ISPRS Brochures, 2005, 2006, 2007  
ISPRS Awards Brochure  
ISPRS Foundation Brochure  
ISPRS Display Panels  
ISPRS Invitation Materials "to become a member of ISPRS"

## CENTENARY PREPARATIONS

Council has decided to celebrate the 100 years of the Foundation of the Society with a series of activities and formed a Board for the preparations. It as suggested that the ISPRS Centenary Celebration should on July 4, 2010 (as in our statutes the foundation date of the Society is mentioned as 4 July 1910) in Vienna Austria. It will be held in conjunction with the Dreilander Tagung (The 3-Country/society - Austria, Germany, Switzerland) conference, and the Inter-Congress Symposium for Commission VII (in case Austria gets the approval of the General Assembly to host the Commission VII.

The program of the 4th of July is proposed as;

11.00-13.00 General Assembly at TU Vienna (foundation place of the Society)

13.00-14.00 Lunch

15.00-16.30 Formal Presentations at the TU Vienna

19.00-23.00 Gala Dinner with guest keynote speaker

The Board of the centenary preparations will have a meeting on the 11th of Friday 08.30-10.00 at the Congress.

## RELATIONS WITH THE WORLD BUSINESS COUNCIL OF SUSTAINABLE DEVELOPMENT

In the past few decades the world has recognized that the extent to which humans can modify and alter the energy and mass exchanges that occur between atmosphere, oceans and biota, and understood that the changes being wrought may be beyond the resilience of natural systems to absorb? Sustainable development has been proposed as a means of

ensuring that human impacts are within the capacity of the Earth to cope with the changes influenced by humans

The World Business Council for Sustainable Development (WBCSD) is a CEO-led, global association of some 190 companies dealing exclusively with business and sustainable development.

The Council provides a platform for companies to explore sustainable development, share knowledge, experiences and best practices, and to advocate business positions on these issues in a variety of forums, working with governments, non-governmental and intergovernmental organizations.

The Council focuses on four key areas:

Energy and Climate

Development

The Business Role

Ecosystems

ISPRS has many overlapping areas of interest with these key areas and established links with this took place on the dates of 21st – 22nd May 2008 at Istanbul and gave a presentation (Ian Dowman and Orhan Altan) on the “Structure and Aims of ISPRS and the Sustainable Indicators”.

We hope by intensifying our contacts with the outside world (like WBCSD) ISPRS can outreach its scientific achievements to the Society.

## COUNCIL MEETINGS

Council has met formally on 12 occasions, as set out in Table 3.

Table 3 Council Meetings 2004-2008

Venue	Dates	Host(s)	Attendees
Istanbul, Turkey	24 July 2004	Istanbul Congress	Joint meeting with TCPs
Istanbul, Turkey	8-9 December 2004	Istanbul Technical University	Council
Chiang Mai, Thailand	21-25 November 2004	ACRS	Joint Meeting with TCPs
Zurich, Switzerland	12-15 May 2005	ETH-Z IPF	Council
Enschede, Netherlands	30 September - 4 October 2005	ITC	Joint Meeting with TCPs
Reno, USA	30 April-2 May 2006	ASPRS	Council
Goa, India	1-4 October 2006	ISRS	Joint Meeting with TCPs
Vienna, Austria	3-6 March 2007	Austrian Soc	Council
Beijing, China	20-24 August 2007	Congress	Joint Meeting with TCPs and International Advisory Committee
Istanbul, Turkey	8-9 December 2007	Istanbul Technical University	Council
Durham, UK	7-12 April 2008	UK Society	Joint Meeting with TCPs
Beijing, China	28-30 June 2008	Congress	Council

Council is very grateful to all the organizations which have assisted in organizing the meetings of Council and sponsored the costs involved. I express my sincere thanks to my university in supporting 2 additional Council meetings in Istanbul.

Members of Council have also met at international meetings, particularly the ISPRS Symposia, and held ad hoc meetings.

### **HEADQUARTERS MANAGEMENT**

The headquarters of ISPRS has been at Istanbul Technical University (ITU), Turkey. The Secretary General has been assisted by Özgür Avsar, who acted as assistant secretary to the SG from September 2004 and Umut Aydar from October 2005 to the Congress. From February 2005 until March 2007 Melis Mine Sener supported and led this team.

The major tasks carried out by the SG have been:

- Preparation of Papers and Minutes for Council meetings.
- Revision and preparation of database for distribution.
- Preparation of ballots for changes of ToRs, Bylaws and admission of new Members.
- Liaison with the Publisher of Highlights.
- Communications with TCPs and WG chairs regarding symposia, workshops, publications, terms of reference etc..
- Communications with members on activities and contact details.
- Preparation of Silver Book.
- Preparation and Revision of Orange Book (Manual of Operations for ISPRS Technical Commissions and Working Groups, 2005 and 2007).
- Preparation of draft of Green Book (Manual of Operations for ISPRS Council).

### **Financial Support**

Most of the financial support of the Secretary General's operations has been from ISPRS funds. However the Turkish Government has given total funds of USD50,000 for the four years period to support travel costs of the Secretary General and other costs such as communication, postage, printing etc. and as mentioned above INTERGRAPH Corporation donated USD7,500 for the production and printing of "ISPRS prospectus". Leica Geosystems donated €5,000 per year to support the activities of the Headquarters. With this financial assistance significant savings of ISPRS accounts have been achieved, which will be reflected at the Treasurer's Report.

### **ISPRS COMMITTEES**

ISPRS has 4 permanent Committees. Two of these were set up by Council to advise on Policy and Science: The International Policy Advisory Committee (IPAC) is chaired by Ray Harris (UK) and The International Science Advisory Committee (ISAC) is chaired by Armin Gruen (Switzerland). These two Committees have been active in providing advice to Council. CIPA is The ICOMOS & ISPRS Committee on Documentation of Cultural Heritage, ISPRS is represented on the CIPA Board and President Dowman, has attended CIPA meetings. The International Committee on Remote Sensing of Environment (ICORSE) was established at the Amsterdam Congress and has organised two Symposia, in 2005 and 2007. The interaction between ISPRS Council and ICORSE has not been as strong as is desirable and efforts must be made to bridge that gap in the coming years, in order for the remote sensing community to recognize that ISPRS has a genuine involvement in all aspects of Remote Sensing.

### **INTERNATIONAL ACTIVITIES OF THE SECRETARY GENERAL**

Apart from attending Council Meetings and all of the Commission Symposia in 2006, the Secretary General has attended many international meetings to represent ISPRS, these include, COPUOS, ICSU, Joint Board; International Conferences, FIG, ACRS. The Secretary General has also met with Members, contracting companies and individuals and individual WGs for ISPRS in more 20 countries, often on more than one occasion. The Secretary General has been involved in each year's INTERGEO Trade Fairs and Exhibition and ISPRS have had a booth there.

### **ACKNOWLEDGEMENTS**

I would like to acknowledge support from many people during my time as Secretary General, most particularly from ITU: my colleagues in the Department of Geodesy and Photogrammetry Engineering, especially Özgür Avşar and Umut Aydar, who have worked with enthusiasm in ISPRS daily matters. I have also had excellent support from the Turkish National Society for Photogrammetry and Remote Sensing. My thanks are also to the Turkish Government, who supported the Headquarters with a large grant and the Istanbul Technical University for providing me free time to devote to ISPRS business. I would like to thank everybody within ISPRS who has efficiently interacted with me particularly TCPs and WG chairs and of course Council, with whom it has been a real pleasure to

work. Within the Council it was a wonderful climate of collegial respect, a spirit of teamwork and help each other. This we owe to our President Ian Dowman in the first instance. Here I have to mention the help of First-Vice President John Trinder. He was the first person who receives all my reports and documents at first and edits them with his unpretending capacity. There is a

lot of effort involved in the job of Secretary General but the rewards from working with such a dedicated and stimulating group of people make it all worthwhile. Finally I would like to thank my wife, Melike, without whose tolerance and support, I would not have been able to serve the Society as Secretary General.

# REPORT ON INTER-ORGANIZATIONAL RELATIONS, IAN DOWMAN

One of the major objectives of ISPRS is the development of international cooperation for the advancement of the photogrammetry, remote sensing and spatial information sciences. A major activity is to represent the photogrammetry, remote sensing spatial information sciences communities to intergovernmental organisations and to other international societies. ISPRS is a member of a number

of international organisations, and also collaborates with others. Table 1 gives a summary of ISPRS relationships with international organisations, divided into Intergovernmental bodies, international umbrella organisation and other international societies. Some additional information on the major inter-organisational activities follows the table:

Organisation	ISPRS Status	Activities in 2004-2008	Representatives
<b>United Nations</b>			
UN Economic and Social Council (ECOSOC)	Accredited NGO	None	
UN ECA Committee on Development Information (CODI)	Accredited NGO	Meetings of CODI 2005 and 2007	Ian Dowman
UN Statistics Division	Accredited NGO	UN Regional Cartographic Conferences for Americas 2005 and Asia Pacific 2005	Ian Dowman John Trinder Stan Morain
COPUOS UN office of Outer Space Affairs (OOSA)	Observer	Annual Meetings of COPUOS and COPUOS Science and Technology Sub Committee	COPUOS – Ian Dowman COPUOS S&T – Orhan Altan
FAO	MoU signed 2007	Advice given by correspondence.	
<b>International umbrella organisations</b>			
International Council of Science (ICSU)	Member	Plenary meeting in Suzhou, 2005 Unions Meeting, Rome, 2007 Meetings of GeoUnions.	Ian Dowman Orhan Altan Chen Jun
Group on Earth Observation	Participating Organisation	Plenary meeting and committee meetings GEOSS Workshops	Ian Dowman Stan Morain
Committee on Earth Observation Satellites (CEOS)	Associate	Plenary Working Group on Education	Ian Dowman John Trinder
International Standards Organisation (ISO)	Liaison member	Represented through Working Groups.	Hans Knoop Wolfgang Kresse
Open GIS Consortium (OGC)	No formal relationship	Collaboration through WGs Joint organisation of GEOSS Workshops	
Organization of Islamic Cities and Capitals (OICC)	MoU signed	No activity	
COSPAR	Became a member in 2004	Correspondence only	John Trinder
<b>Other international societies</b>			
Joint Board of Geospatial Information Societies	Member	Annual meetings at members conferences	Ian Dowman Orhan Altan
International Society for Optical Engineering (SPIE)	MoU signed	Sponsorship of meetings, particularly the Videometric conferences.	
IEEE-GRS	MoU signed	Joint organisation of GEOSS Workshops	Ian Dowman
CRTEAN	Associate 2003	No activity	
ION	**	Signed an MoU	**

### **UN Statistics Division**

The Regional Cartographic Conference for the Americas was held in New York in June 2005 and attended by President Dowman and Treasurer Stan Morain. The UN Regional Cartographic Conference for Asian and the Pacific was held in Bangkok in 2005 and attended by John Trinder. The UN cartographic conferences for Africa are organized by the Economic Commission of Africa under CODI (Committee on Development Information). President Dowman attended CODI in 2005 and 2007. CODI meetings have emphasized the development of spatial data infrastructure for African countries and workshops on the topic have been held. The ISPRS representatives at these meetings have presented papers on ISPRS activities on cartographic applications of aerial and space images.

### **UN Committee on the Peaceful Uses of Outer Space (COPUOS)**

COPUOS is organised by the Office of Outer Space Affairs (OOSA) from the UN Office in Vienna. ISPRS has a Memorandum of Understanding (MoU) with the Director of the Office of Outer Space Affairs on cooperation between the two organizations. Items in the MoU include: joint co-sponsorship annually of an event (workshop, seminar, tutorial, etc.); coordination of schedules, events, topics and/or specialist needs in pre-planning related activities; jointly seeking financial support and identification of relevant high-quality specialists and lecturers for United Nations led events that require photogrammetric, remote sensing and Geographic Information Systems expertise; inclusion of joint events in the quadrennial ISPRS Congress, and in relevant quadrennial ISPRS Commission Symposia and Working Group activities; the provision by ISPRS of scientific and technological expertise through reviews, evaluations or recommendations on space matters related to remote sensing; and facilitation and initiation of opportunities for fellowships, grants and awards in remote sensing, photogrammetry and geo-spatial information sciences.

President Dowman and Secretary Altan have attended COPUOS meetings and meetings of the COPUOS Science and Technology Committee and presented reports on ISPRS activities. ISPRS prepared posters which were displayed at an exhibition marking the 50th session of COPUOS and the 50th anniversary of the space age. These posters on ISPRS activities have also been displayed at other exhibitions. ISPRS has also been involved with the United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER).

### **The "United Nations Platform for Space-based Information for Disaster Management and Emergency Response-UN-SPIDER" is established on**

the resolution of the United Nations General Assembly in 14 December 2006. In its mission statement: *"Ensure that all countries and international and regional organizations have access to and develop the capacity to use all types of space-based information to support the full disaster management cycle"*. ISPRS has participated to the preparation of this resolution by Secretary Altan acting as a member of the ad-hoc Expert Group for preparing the ToRs of this entity.

### **International Council for Science (ICSU)**

ICSU is a non-governmental organization founded in 1931 to bring together natural scientists in international scientific endeavour. It comprises 113 multi-disciplinary National Scientific Members, Associates and Observers (scientific research councils or science academies) and 29 international, single-discipline Scientific Unions to provide a wide spectrum of scientific expertise, enabling members to address major international, interdisciplinary issues which none can handle alone. ISPRS became a full Union Member of ICSU in 2002 and attended the triennial plenary meeting in 2005.

Membership of ICSU has enabled ISPRS to play a greater role in a number of areas of ICSU. ISPRS President and Secretary General make regular contributions to the ICSU Secretariat on relevant scientific matters. Professor Ray Harris, chair of ISPRS IPAC has represented ISPRS on the Priority Area Assessment Committee on Data and Information, and has chaired the ad hoc Strategic Committee on Information and Data. President Dowman attended a Unions meeting in Paris in 2007. ISPRS is also a member of the GeoUnions Group which has been set up so that the Unions involved in the use of geographical information can exchange views. President Dowman and Secretary General Altan have attended annual GeoUnions meetings.

One of the areas promoted by ICSU is health and Wellbeing. ISPRS contributed to the initial meetings on this topic and ISPRS, led by Stan Morain has now been awarded a grant to for "Mapping GeoUnions to the ICSU Framework for Sustainable Health and Wellbeing", which will involve other GeoUnions. This interest in health also links to GEO activities.

### **Group on Earth Observation (GEO)**

The group on earth Observation (GEO) has now been operating for three years and ISPRS has been active through its committees and task teams and also

through organising workshops on the Global Earth Observing System of Systems (GEOSS). ISPRS has collaborated with IEEE and OGC under the umbrella of GEO to organise a series of workshops to provide a forum for discussing the architecture and user applications of the GEOSS, these include on line demonstrations by OGC on the web services which will be part of GEOSS and feedback sessions for user comment. Stan Morain has been active in promoting the use of remote sensing for health issues and has organised 2 workshops on this topic.

### **Committee on Earth Observing Satellites (CEOS)**

ISPRS is a CEOS Associate but in view of the establishment of GEO has decided to concentrate its resources on GEO and has attended only 1 plenary during the past 4 years.

### **ISO**

ISPRS is a liaison member of several ISO Technical Committees and has a commitment to supporting efforts to establish standards for data format and transfer. ISPRS also supports efforts for interoperability and data transfer through the Open GIS Consortium (OGC). In order to implement this an ad hoc Committee on Standards has been set up under the chairmanship of Wolfgang Kresse. The role of the committee is to co-ordinate WG input to standards organisations such as ISO, OGC and to regional and national standards organisations and for a; to encourage Working Group liaison with standards organisations and to promote ISPRS to standards organisations. The committee will make a separate report to the GA. Hans Knoop is the ISPRS representative to ISO/TC 211.

### **Joint Board of Geospatial Information Societies**

The Joint Board of Geospatial Information Societies (JBGIS) comprising FIG, ICA, IHO, AIG, ISPRS, IMTA, GSDI and ISCGM is the main vehicle for inter society collaboration. The Board has established a committee on capacity building in Africa, chaired by Ian Dowman. A major activity has been the development of a knowledge portal for Africa. In the final plenary session of CC: The Exchange an event hosted by Ordnance Survey in July 2005, on behalf of National Mapping Agencies (NMA's) from across the world, the notion of transferring information from NMAs in developed countries to those in developing countries was discussed. GSDI agreed to scope the requirements to set up such a portal which will have three primary components:

- knowledge database;
- commitment database;
- equipment database.

A lot of information already exists and work needs to be done to integrate this into the portal. An existing portal, AGIRN, run by EIS Africa has been chosen as a pilot study which will give experience of the required structure, based on an existing portal and allow feedback from providers and users. The AGIRN portal is now operating and can be viewed at <http://www.AGIRN.org> and the Joint Board is supporting the development of this portal and the GSDI portal.

The Risk and Disaster Management Committee had the role of co-ordinating the many initiatives in these areas and has recommended that each organisation within JBGIS organises sessions on disaster management topics during their main conferences. The societies should also provide experts to UN conferences and other UN activities and also nominate a contact person or working group for disaster management. The GI4DM conference series is recognised as the main international event in this area. This series will be preceded in the coming years. Secretary Altan is appointed as the chair of the (JBGIS)'s ad-hoc committee on Risk and Disaster Management at the Conference of GSDI in Chile in February 2008.

### **Other relationships**

ISPRS has established links with The World Business Council for Sustainable Development (WBCSD), a CEO-led, global association of some 190 companies dealing exclusively with business and sustainable development. The Council provides a platform for companies to explore sustainable development, share knowledge, experiences and best practices, and to advocate business positions on these issues in a variety of forums, working with governments, non-governmental and intergovernmental organizations.

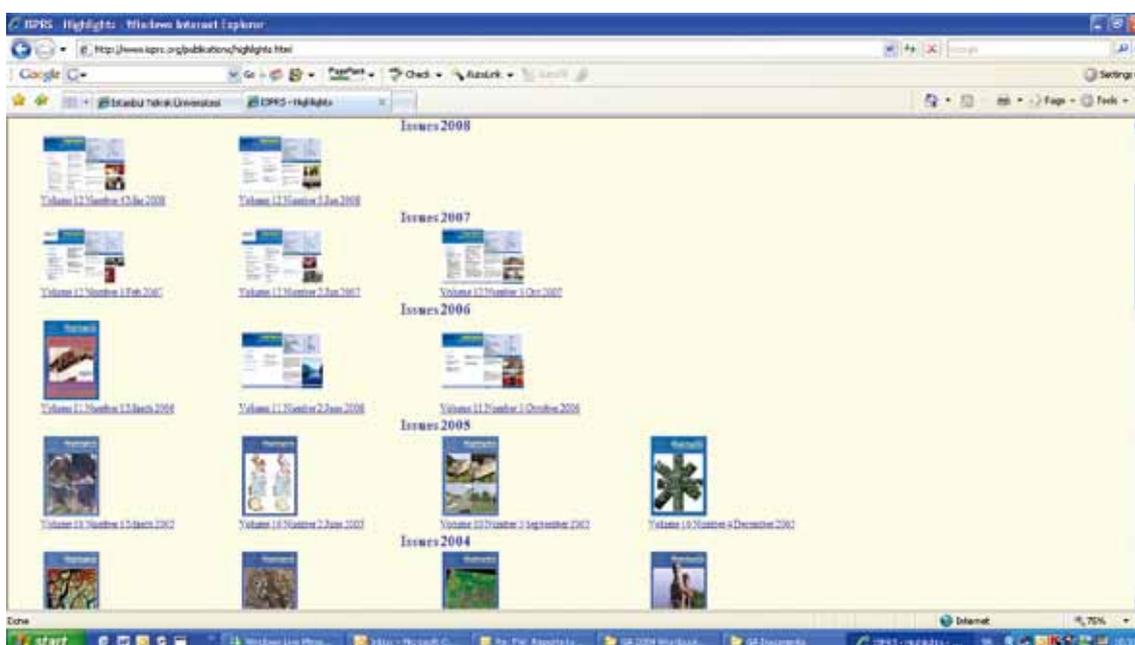
ISPRS has many overlapping areas of interest with the key areas of this Council participated to a Conference of Turkish Council on the dates of 21st – 22nd May 2008 at Istanbul and gave a presentation (Ian Dowman and Orhan Altan) on the "Structure and Aims of ISPRS and the Sustainable Indicators".

We hope by intensifying our contacts with the outside world (like WBCSD) ISPRS can outreach its scientific achievements to the Society.

# REPORT OF ISPRS HIGHLIGHTS EDITOR-IN-CHIEF ORHAN ALTAN TO THE GENERAL ASSEMBLY FOR 2004-2008

ISPRS Highlights have been published by GITC bv in The Netherlands, which have served the Society very well in producing a high quality bulletin which has been distributed on time to all ISPRS members and to individuals associated with ISPRS. I have edited Highlights for the past 4 years. 4 issues in each of 2004 and 2005 were produced, including three 64 page issues containing the Annual Reports for 2005 and 2006 and a report on the 2004 Congress. I am being supported by Tuan Chih Chen as Calendar Editor and Qiming Zhou as Book Review Editor.

Council decided in 2006 to continue Highlights in digital form due to high production and distribution costs. The last paper form of Highlights was produced in March 2006 with the annual report of 2005. The number of email addresses of individuals who receive E-Highlights is over 3000. However the actual number now can be estimated at over 10.000 as many societies (such as ASPRS or the Swiss Society) distribute this new version of so called "E-Highlights" to their members internally.



Links of the Highlights issues on the Webpage

# REPORT OF ISPRS WEBMASTER FABIO REMONDINO TO THE GENERAL ASSEMBLY FOR 2004-2008

The ISPRS web site (<http://www.isprs.org>) has turned out to be one of the most important components of ISPRS communications, providing up-to-date information about the society and linking its various activities.

The first html pages regarding ISPRS were inserted on the Internet by Andre' Streilen in December 1994, on a web server hosted at the Institute of Geodesy and Photogrammetry of ETH Zurich, under the URL <http://www.geod.ethz.ch/isprs>. In September 1999, thanks to the reservation of the international domain name 'isprs.org', all the information were moved to a meaningful URL and nowadays all different ISPRS activities can have an Internet address ending on the suffix 'isprs.org'. After a short period in T.U. Delft, in September 2000 the ISPRS server moved back to ETH Zurich. Fabio Remondino managed the website until May 2008 when the server was moved to Uni Stuttgart and Markus English took over the duty of webmaster.

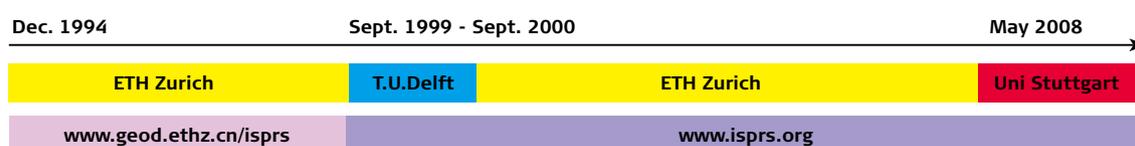
Nowadays there are more than 700 html pages with approximately 25 000 lines of information. Moreover there are ca 1000 PDF files available online, i.e. a total of ca 15 GB of data. The information (directories) more requested contain the publications, the events calendar and the technical commissions while ca 70% of the

consulted files are PDF articles. This fact suggests that an online database with all the ISPRS events proceedings is required.

The web statistics are a very useful tool to check the access and requests to the server. In 1995 the average of monthly requests was 424 and in 1998 the average was 5780. In 2004, before the Istanbul Congress, we had ca 250,000 requests per month while at present ISPRS server has more than 400,000 requests per month. The different domains (~ countries) served at least ones by the server are 170 (ca 70% of the registered country domains) while more than 20,000 different organizations (e.g. universities, companies) have contacted the ISPRS server within the last years.

In the last four years, all Technical Commissions had a dedicated homepage and 56/58 of the Working Groups and 5/5 of the ICWG provided information on their own web pages.

ISPRS will remain inside the World Wide Web, always improving its appearance and resources. The main board and the web master will continually strive to refine and expand ISPRS online material to provide always more information and services for its users.



History of ISPRS website

# REPORT OF ISPRS BOOK SERIES EDITOR PAUL APLIN TO THE GENERAL ASSEMBLY FOR 2004-2008

## **Book Series Editor**

Maxim Shoshany's term as Book Series Editor ended in early 2005, at which time Paul Aplin was appointed until 2007, later extended to 2011. The final two ISPRS Book Series volumes developed during Maxim's tenure were published under the joint Book Series Editor stewardship of Shoshany and Aplin.

## **Book Series Strategy**

At the time of appointment, Paul Aplin was asked to review the motive and strategy of the Book Series, and propose a mode of operation. Summary text describes this:

The ISPRS Book Series comprises significant scientific publications in photogrammetry and remote sensing, and related disciplines. Each volume in the series is prepared independently and focuses on a topical theme. Volumes are published on an occasional basis, according to the emergence of noteworthy scientific developments. The material included within each volume is peer-reviewed rigorously, ensuring strong scientific standards. While volumes are published on any suitable theme, it is common for themes to be related to ISPRS meetings. Volumes may vary markedly in character, but are often (i) extended proceedings (papers selected from an ISPRS meeting), (ii) edited volumes (papers invited on a particular theme), (iii) text books (general overview of a significant subject) or (iv) monographs (in-depth study on a specific topic). The series is published by CRC Press/Balkema, Taylor & Francis Group.

## **Volume Editing**

As part of the general review of the Book Series, the procedures involved in editing a volume were formalized to clarify volume editor duties and ensure consistent practices and standards across volumes. A volume proposal form was prepared and circulated, and full volume editor instructions were outlined and made available.

## **Book Series Website**

The Book Series website was overhauled, and new material added to provide comprehensive information for all parties interested in viewing volume details, ordering volumes or editing/authoring volumes. Former

ISPRS webmaster, Fabio Remondino, was instrumental in developing the new website, and current webmaster, Markus English, now helps maintain it. The website address is:

<http://www.isprs.org/publications/bookseries.html>.

## **Book Series Publisher**

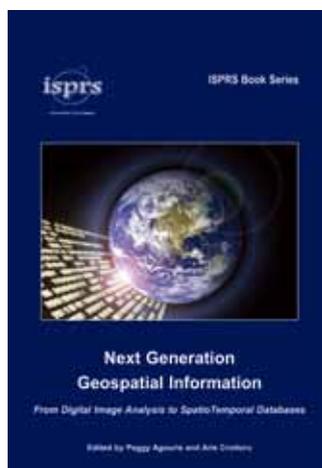
ISPRS shares a good working relationship with the Book Series publisher, now known as 'CRC Press/Balkema, Taylor & Francis Group', formerly known variously as Balkema and/or Taylor & Francis. The Book Series Editor is in constant email communication with the publisher, and both the Book Series Editor and the ISPRS President have held several face-to-face meetings with the publisher. Generally, the publisher has been responsive and encouraging when handling procedural matters with individual volume publications. Though less proactive in the early days of the Book Series when addressing marketing or book review matters, the publisher has now focused well on these, generally preparing information to coincide with the publication of volumes. The publisher continues to be a little concerned about the timescale of volume publications – many fall behind schedule, some considerably so – and to express a desire to increase the quantity of volumes published.

## **Discounted Volume Purchase Price**

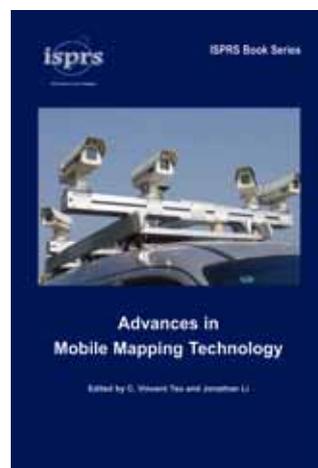
To promote Book Series volume sales through ISPRS, the publisher has agreed to a 35% discount on cost price for all individuals within ISPRS Ordinary, Associate, Regional and Sustaining members. This is a generous benefit that applies to all volumes. An order form is available through the website: [http://www.isprs.org/publications/PDF/ISPRS\\_orderform\\_earthSc.pdf](http://www.isprs.org/publications/PDF/ISPRS_orderform_earthSc.pdf).

## **Book Series Volumes**

Since 2004, ISPRS Book Series volumes 3, 4, 5 and 6 have been published (see below), with volume 7 due for release at the ISPRS Congress in Beijing: 'Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book'. Another volume, 'Advances in Remote Sensing and Geoinformation Processing for Land Degradation Assessment', is due for publication later in 2008, and one more, 'Earth Observation Small Satellites for Remote Sensing Applications' is currently in preparation.



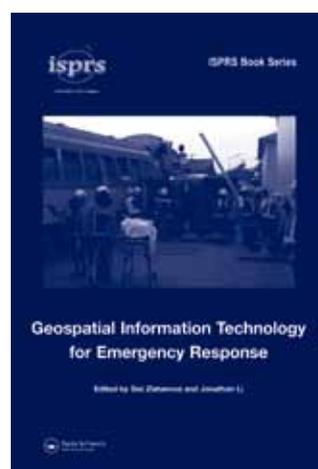
Volume 3, Next Generation Geospatial Information: From Digital Image Analysis to Spatio-Temporal Databases, 2005, edited by Peggy Agouris and Arie Croitoru.



Volume 4, Advances in Mobile Mapping Technology, 2007, edited by Vincent Tao and Jonathan Li.



Volume 5, Advances in Spatio-Temporal Analysis, 2008, edited by Xinming Tang, Yaolin Liu, Jixian Zhang and Wolfgang Kainz.



Volume 6, Geospatial Information Technology for Emergency Response, 2008, edited by Sisi Zlatanova and Jonathan Li.

### Book Series Standards

The primary aim of the Book Series is to publish scientific work of high quality from the ISPRS community. The earlier review of the Book Series was intended in part to drive up and maintain high standards. This has been achieved to a large extent, with a series of volumes presenting topical and advanced research. However, while overall standards have been high, not all work submitted for publication in the Book Series has been of superior quality. Given the independent nature of each volume and the many authors and editors contributing to the Book Series, it is not surprising that the quality of work has varied. However, it seems clear that perceptions of the Book Series have varied markedly and some have viewed the series as simply a mechanism for publishing standard conference proceedings papers. This is not the case and it is important that contributors, volume editors

in particular, view the Book Series as an outlet for publishing the highest quality work.

To date, on occasions where substandard work has been submitted and initially accepted, the Book Series Editor has intervened and excluded such work from publication. In future, volume editors should aim to take full responsibility for selecting high quality papers and, where necessary, excluding substandard ones.

A related issue here is the standard, very poor on occasion, of the written English in submitted work. This led to one volume in particular experiencing considerable delays, while several revisions were made. In this case, the Book Series Editor was able to help arrange a specialist English language editor, but this incurred considerable extra cost. Clearly this may continue to be a difficulty where a volume editor's native

language is different to the language of publication, but this issue should not be overlooked and time/cost implications should be considered at the outset.

### **Book Series Opportunities**

The Book Series has met with considerable success over the last four years, but it probably still represents untapped potential. The visibility and recognition of the series seems limited within the ISPRS community – the ISPRS Book Series brand is not yet very well established. The series offers excellent opportunities for practitioners of photogrammetry and remote sensing, including not only heavily discounted volume prices, but also a mechanism for editing, authoring and

publishing very high quality scientific work. All members of the ISPRS community, but perhaps particularly ISPRS Working Group Chairs and Technical Commission Presidents, are encouraged to consider preparing ISPRS Book Series volumes as part of their scientific activities. I would be happy to discuss any suggestions you may have.

Paul Aplin  
ISPRS Book Series Editor  
paul.aplin@nottingham.ac.uk  
June 2008

# REPORT OF INTERNATIONAL SCIENTIFIC ADVISORY COMMITTEE (ISAC) TO THE GENERAL ASSEMBLY BY ARMIN GRUEN, ISAC CHAIRMAN

This report covers the activities of ISAC during the intercongress period 2004-2008.

ISAC (International Science Advisory Committee) resumed its work after the ISPRS Congress in Istanbul 2004 with a crew of 12 members, covering at equal numbers (4) the major areas of interest of ISPRS Photogrammetry, Remote Sensing and GIS.

For the Terms of Reference of ISAC please see Attachment 1 and for the ISAC Member Lists Attachment 2.

Throughout the 4-years period the Committee developed and submitted opinions to the following issues and documents:

## **Year 2004**

Discussion of the working mode, the structure and composition of ISAC. It was noted that the Committee Members' activities varied to a great deal and that certain areas of expertise are missing in the Committee. The Chairman made a proposal to Council as to what kind of measures should be introduced in order to make the work of the Committee more efficient (ISAC Memorandum to Council, November 2004).

## **Year 2005**

In 2005 ISAC went through a period of consolidation. Some members left the Committee, others were not yet appointed.

(a) On occasion of the Council Meeting in Zurich, 12-15 May 2005, there was an intensive discussion about the future role of ISPRS with respect to the input of mapping agencies and system manufacturers. There was general agreement that, as a first step, ISAC should open up for representatives from these groups of experts. As a first action Dr. A. Streilein, swisstopo was appointed for the Photogrammetry group.

(b) Other topics of concern are still the working mode, the structure and the legal status of ISAC within ISPRS. The Chairman made a proposal to Council as to what kind of measures should be introduced in order to make the work of the Committee more efficient and Council agreed in general. However, the practicalities are not implemented yet.

## **Year 2006**

The Symposia of 2006 were attended only by a small number of ISAC Members; therefore a sound analysis of the events was not feasible.

## **Year 2007**

(a) Comments of the ISAC Chairman to the Council Proposal for Scientific Collaboration (18 July 2008)

(b) Proposal to Council for restructuring ISAC (28 November 2007)

## **Year 2008**

Review of the Draft Resolutions for the XXIst Congress of the ISPRS, Beijing 2008

## **Conclusions and Suggestions**

The work of ISAC suffered at times from a very uneven amount of activities among its members. While some have been actively and timely contributing, others did not show so much interest in ISAC's matters. This may partly be due to the fact that so far ISAC was run as an ad hoc Committee with no root in the official and legal structure of ISPRS. Therefore the Chairman suggested several times to Council Members that this deficiency should be taken care of by giving ISAC a more formal status within ISPRS, i.e. by defining it through Statutes and Bylaws.

Also, the flow of information between Council and ISAC was not always at its best. In order for ISAC to work more pro-actively it is necessary that the ISAC Chairman has closer links to Council. This includes the attendance of Joint Meetings.

Another problem stems from the fact that ISAC has an inflexible structure. The static distribution of its membership according to the areas Photogrammetry, Remote Sensing and GIS does not always support the necessary expertise for certain issues. A combination of fixed membership and ad hoc involvement of experts would be more beneficial and more appropriate for the current situation in our sciences.

The Chairman of ISAC would like to express his sincere thanks to all those members who have contributed to the Committee's work over the past period.

## ATTACHMENT 1

### The International Science Advisory Committee (ISAC)

The ISAC has been established to support the Council and the ISPRS General Assembly in identifying and addressing important S&T trends which impact the scope of the ISPRS Commissions and the activities which should be addressed by ISPRS Working Groups. The ISAC is to ensure that ISPRS S&T activities are in proper balance and cover the breadth of the Society's S&T mission.

#### ISAC Terms of Reference

- Identify and prioritize scientific and technologic (S&T) trends which will impact the S&T activities of the Society and recommend actions to ISPRS Council.
- Facilitate excellence in scientific research and development and the use of proper and appropriate technology by evaluating and refining S&T Resolutions proposed in advance by ISPRS Member Organizations and Commissions for approval by the quadrennial ISPRS General Assembly.
- Collaborate with the ISPRS Council to formulate Resolutions for ISPRS General Assembly approval which will ensure that ISPRS is at the forefront of the S&T in the photogrammetry, remote sensing and spatial information sciences and covers the full breadth of the Society's mission.
- Review proposed Working Groups Terms of Reference with Council and identify S&T gaps and overlaps and recommend corresponding fills and consolidations.
- Evaluate inputs recommended for changing the overall scope and direction of S&T activities in the Society and advise Council accordingly.
- Suggest collaborative S&T activities with other international societies and intergovernmental bodies to foster cooperation on the inter-disciplinary boundaries.
- Propose worthy candidates for recognition and awards.

## ATTACHMENT 2

### ISAC Membership

Originally, Council decided that it is preferable to have a Committee of 12 members who have broad experience and knowledge of the state of the sciences and technologies, and are respected experts and visionaries in the three primary disciplines embraced by ISPRS. The ISAC Chair and Members are appointed by Council, not limited by term, but periodically reviewed and replaced if deemed inactive. To ensure proper representation,

the ISPRS Council will strive to maintain active participation by specialists for each area of expertise. At the beginning of the reporting period (July 2004) the following renowned scientists have been members of ISAC:

#### Geospatial Information Sciences

Prof. Dr. Michael F. Goodchild, University of California, USA

Prof. Dr. Martien Molenaar, ITC, Netherlands

Prof. Dr. David Rhind, City University, UK

Anne Ruas, IGN, France

#### Photogrammetry

Prof. Dr. Clive Fraser, University of Melbourne, Australia

Prof. Armin Gruen, ETH Zurich, Switzerland (Chairman)

Prof. Edward Mikhail, Purdue University, USA

Prof. Dr. Wolfgang Förstner, University of Bonn, Germany

#### Remote Sensing

Prof. Dr. Paul Curran, University College of Swansea, UK

Dr. Diane Evans, JPL, USA

Prof. Dr. Tony Milne, University of New South Wales, Australia

Dr. Klaus Komp, EFTAS, Germany

The membership has changed throughout the reporting period. In particular, Council has decided to have also participation from professional practice, specifically from large mapping organizations and system manufacturers. Therefore, two experts from the user community (who figure here under "User Forum") have accepted the invitation to join ISAC. Thus the membership is currently (as of July 2008):

#### Geospatial Information Sciences

Prof. Dr. Michael F. Goodchild, University of California, USA

Prof. Dr. Martien Molenaar, ITC, Netherlands

Anne Ruas, IGN, France

#### Photogrammetry

Prof. Dr. Clive Fraser, University of Melbourne, Australia

Prof. Armin Gruen, ETH Zurich, Switzerland (Chairman)

#### Remote Sensing

Prof. Dr. Paul Curran, University Bournemouth, UK

Prof. Dr. Tony Milne, University of New South Wales, Australia

#### User Forum

Dr. Mustafa Oender, Inta Spaceturk, Turkey

Dr. Andre Streilein, swisstopo, Switzerland

# REPORT OF INTERNATIONAL COMMITTEE FOR ARCHITECTURAL PHOTOGRAMMETRY (CIPA) TO THE GENERAL ASSEMBLY BY CLIFF OGLEBY, CIPA CHAIRMAN

## I. GENERAL

### A. Statutes

The statutes did not change since the last report. CIPA is occasionally upgrading its Operational Guidelines which can be found on CIPA's web site (cipa.icomos.org).

### B. Date of last elections

November 1st, 2006, in Nicosia, Cyprus.

### C. Date of next elections

2010

## II. GOVERNANCE AND MEMBERSHIP

### A. COMMITTEE OFFICERS of the CIPA Executive Board

#### President

##### Cliff Ogleby (2007 - 2010)

The University of Melbourne  
Department of Geomatics  
Victoria 3010, Australia  
Tel: +61-3-8344-6806  
Fax: +61-3-9347-2916  
E-mail: president@cipa.icomos.org

#### Vice Presidents

##### Klaus Hanke (2007 - 2010)

Surveying and Geoinformation Unit  
University of Innsbruck  
Technikerstrasse 13  
A 6020 Innsbruck, Austria  
Tel: +43-512-507-6752  
Fax: +43-512-507-2910  
E-mail: vicepresident@cipa.icomos.org  
Url: www2.uibk.ac.at/geodaesie/hanke\_e.html

##### Mario Santana Quintero (2007 - 2010)

Consultant  
Torre Banvenez piso 12 ofc. 12-C  
Av. Francisco Solano López c/c. Pascual Navarro,  
Sabana Grande, Caracas Venezuela  
E-mail: vicepresident@cipa.icomos.org

#### Secretary General

##### Michael Doneus (2007 - 2010)

Institute for Prehistory and Protohistory  
University of Vienna  
Franz-Klein-Gasse 1

A 1190 Vienna, Austria

Tel: +431-4277-40486

Fax: +431-4277-9404

E-mail: secretary\_general@cipa.icomos.org

Url: www.univie.ac.at/Luftbildarchiv/index.htm

#### Treasurer

##### Pierre Grussenmeyer (2007 - 2010)

National Institute of Applied Sciences of Strasbourg  
Photogrammetry & Geomatics Group  
24, Boulevard de la Victoire  
F-67084 Strasbourg Cedex  
Tel/Fax: +33-3-88-14-47-33  
E-mail: treasurer@cipa.icomos.org  
Url: www.insa-strasbourg.fr/topographie

#### Ordinary Members

##### a. Society Delegates

##### Giora Solar (ICOMOS) (2005 - 2007)

P.O. Box 263  
TSUR HADASA 99875  
ISRAEL  
Tel/Fax: +972-570-9801  
E-mail: gioras@012.net.il

##### Yutaka Takase (ISPRS) (2005 - 2009)

Executive Officer, CAD Center Corporation  
Professor, Ritsumeikan University  
2-3-21, Kouraku, Bunkyo-ku, Tokyo, Japan 112-0004  
Tel: 81-3-5842-7300  
Fax: 81-3-5842-7301  
E-mail: takase@cadcenter.co.jp  
Url: www.cadcenter.co.jp

##### b. Society Representatives of ICOMOS

##### (1 position vacant)

##### Michael Doneus (2007 - 2010) (address see above)

##### Cliff Ogleby (2007-2010) (address see above)

##### Ana Almagro-Vidal (2007 - 2010)

Fundacion Caja Madrid  
Departamento de Conservacion del Patrimonio Historico  
Plaza de San Martin, 1  
E-28013, Madrid (Spain)  
Tel: +34-913792516  
Fax: +34-913792020  
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**Mario Santana Quintero (2007 - 2010)**

Consultant  
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Sabana Grande, Caracas  
Venezuela  
E-mail: msantana@3darchdoc.com

**c. Society Representatives of ISPRS****Gabriele Fangi (2005 - 2008)**

Dipartimento di Scienze dei Materiali e della Terra  
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**Pierre Grussenmeyer (2007 - 2010) (address see above)****Klaus Hanke (2007 - 2010) (address see above)****Heinz Rùther (2005 - 2009)**

ISPRS representative from South Africa  
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University of Cape Town  
Rondebosch Private Bag 7701  
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Fax: +27-21-650-3512  
E-mail: heinz.ruther@eng.uct.ac.za  
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**Petros Patias (2007 - 2010) (address see above)****Associate Members:**

Internet Communication Officer (Webmaster) in charge

**Fulvio Rinaudo**

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Symposium Director, Kyoto 2009

**Yutaka Takase (Society Delegate of ISPRS)**

Symposium Co-Director, Kyoto 2009

**N.N.**

Symposium Director, Athens 2007

**Andreas Georgopoulos (2005 - 2009) ISPRS**

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Fax: +30-1-7722670

E-mail: drag@central.ntua.gr

Symposium Co-Director Athens 2007

**Nikos Agriantonis (2005 - 2009)**

Architect, Greek Tourist Organization  
President of Hellenic Section of ICOMOS  
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**Alonzo C. Addison**

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**Bill Blake**

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E-mail: bblake@theolt.com

**Jose Luis Lerma-Garcia**

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**Rand Eppich**

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**Honorary Members**

**John Badekas**, Greece

**Carl-Wilhelm Clasen**, Germany

**Ross W.A. Dallas**, UK (2004)

**Cevat Erder**, Turkey (2004)  
**Mario Fondelli**, Italy  
**Jozef Jachimski**, Poland (2004)  
**Peter Waldhaeusl**, Austria (2005)  
**Elzbieta Wanot**, Poland  
**Honorary President Maurice Carbonell**,  
**France Peter Waldhaeusl**, Austria (2007)

### **B. List of National and Committee Delegates:**

The Board increased to 68 officially nominated and approved members (Status 09.05.2007).

CIPA has today 61 National and 7 Committee Delegates. From the 61 are 34 from National ICOMOS Committees and only 27 from National ISPRS Member Societies. Together they represent 45 countries. Only 16 countries have nominated delegates from both, ICOMOS and ISPRS. Further nominations, extensions and updates are due until end of the year.

**Call for Delegates:** National and International ICOMOS Committees are kindly requested to nominate delegates respectively extend delegations so that information can be exchanged and partnerships established with the National ISPRS Members. The ICOMOS delegates are to be nominated for three years (whereas ISPRS has four year cycles) with the possibility of extension up to 12 years. Communication is mainly by email in English language. Specially interested experts are welcome who wish to advise, co-operate with and contribute to the work in the Working Groups of CIPA.

## **III. ACTIVITIES**

### **A. MEETINGS, SYMPOSIA**

#### **CIPA Symposia**

1. The XIXth International CIPA Symposium 30 Sept. - 4 Oct. 2003 in Antalya, Turkey on "New Perspectives to Save Cultural Heritage" was held under the auspices of UNESCO. There were about 200 participants from 50 countries. Symposium Directors were Prof. Dr. Orhan M. Altan, Council Member of ISPRS and its Society Delegate in CIPA, and Prof. Dr. Nuran Gülersöy, ITU Istanbul. The main topics were Recording, Documentation and Information Management Tools applied to:

- Archaeological Heritage,
- Architectural Heritage,
- Engineering and Industrial Heritage,
- Urban, Natural and Cultural Landscapes,
- Moveable Heritage,
- Heritage Management.

2. The XXth International CIPA Symposium was held in Torino, Italy from 27 September to 1 October 2005. Symposium Directors are Prof. Dr. Sergio Dequal,

Associate Member of CIPA and Prof. Dr. Marco DEZZI. International Cooperation to Save the World's Cultural Heritage has been chosen as the theme to underscore the notion that only the international cooperation between public and private endeavours can provide viable solutions to safeguard and preserve the World Cultural Heritage for future generations.

3. The XX1st International CIPA Symposium was held in Athens, Greece from 1 to 6 October 2007. Symposium Directors were Andreas Georgopoulos and Nikos Agriantonis. The theme was "Anticipating the Future of the Cultural Past". From originally 243, ca. 160 were approved and published as full papers. The proceedings are online at the CIPA website ([cipa.icomos.org](http://cipa.icomos.org)).

#### **Annual Meetings**

1. 2003: Prior to the CIPA Symposium in Antalya, Turkey, from September 28 - 30, 2003.
2. 2004: During the ISPRS conference on July 17, 2004, in Istanbul, Turkey.
3. 2005: Prior to the CIPA Symposium in Torino, Italy, Sept 26 2005.
4. 2006: During the CIPA/VAST/EG/EPOCH/Euro-Med 2006 event which took place from 30 Oct. - 4 Nov. 2006 in Nicosia, Cyprus.
5. 2007: During the CIPA Symposium in Athens, Greece, Sept. 30 and Oct 1 2007.

#### **Recordim - Roundtables**

1. 2004: RecordIM Roundtable 3 in Leuven, Belgium (see <http://extranet.getty.edu/gci/recordim/>)
2. 2004: RecordIM Roundtable 4 in Istanbul, Turkey (see <http://extranet.getty.edu/gci/recordim/>)
3. 2005: RecordIM Roundtable-5 took place immediately after the Symposium (October 1-2, 2005), to follow-up on the symposium RecordIM Plenary Session discussions. It will then focus on how to improve communication between conservation organizations, and on increasing efficiency and effectiveness in the use of the Alliance Hub.
4. 2006: The CIPA - RecordIM Roundtable 6 took place in Nicosia, Cyprus, at Nov. 2 and 3, 2006 (see <http://extranet.getty.edu/gci/recordim/> for details)
5. 2007: The CIPA - RecordIM Roundtable 7 took place in Athens, Greece, at Oct. 6 and 7, 2007

#### **Workshops, Sessions**

1. CIPA was testing the efficiency of Regional CIPA Workshops to build up regional awareness, interest and capacity. The International Workshop on Vision Techniques Applied to Rehabilitation of City Centers, Lisbon, Portugal, 25-27 Oct 2004 took place and was a

great success... See <http://www.visiontec-workshop.org>

2. XX. International Congress of ISPRS in Istanbul, Turkey, 12-23 July 2004, with two special sessions for CIPA and a great number of publications concerning applications of photogrammetry, laser scanning, remote sensing and related sciences to Cultural Heritage. ISPRS created a "Foramitti-Session" to be held at each ISPRS in memory of the great CIPA founder and photogrammetric pioneer Hans Foramitti. The Foramitti sessions are devoted to heritage recording and documentation, to the state of the art, the development of new technology, and applications at present and in the future. VicePresident Letellier reported on the strategic alliances in the framework of the RecordIM initiative. President Petros Patias commemorated the 35 years anniversary of CIPA and outlined the future program. Vicepresident Cliff Ogleby talked for Gaetano Palumbo, World Monument Fund, on Heritage at Risk and CIPA, and finally on Heritage Documentation in the future, dreams and predictions.

3. CIPA was co-organizer of the joint event CIPA/VAST/EG/EPOCH/Euro-Med 2006 which took place from 30 Oct. – 4 Nov. 2006 in Nicosia, Cyprus and was a great success with more than 300 participants.

4. CIPA executive board took actively part in the ISPRS Commission V Symposium in Dresden, Germany, 25 - 27 September 2006.

5. Workshop in Stone Town Zanzibar/Africa: A joint workshop of Aluka, the African Cultural Heritage Project, UCT, and CIPA (organised by Heinz Rüther) was held in Stone Town, Zanzibar during the last week of July 2007. The purpose of the workshop was the introduction to the African Cultural Heritage Sites and Landscapes Database to users in Africa as well as local capacity building in the area of heritage documentation. It was attended by 30 participants from Sudan, Kenya, Ghana, Mali, Tanzania including of course Zanzibar, and South Africa.

6. CIPA session at the conference "Computer und Archäologie" 12. International conference with the topic: "Kulturelles Erbe und Neue Technologien" 5 – 7 November 2007.

## **B. PUBLICATIONS AND WEB SITE**

### **Publications:**

1. CIPA has its own series of publications, the CIPA International Archives for Documentation of Cultural Heritage. The numbering goes parallel to the resp.

ISPRS International Archives of Photogrammetry, Remote Sensing and Spatial Information Systems numbering.

1. M. Ioannides, D. Arnold, F. Niccolucci and K. Mania (Editors), The 7th International Symposium on Virtual Reality, Archaeology and Cultural Heritage VAST (2006).

2. Ioannides, Marinos (Ed.) u.a: The e-volution of Information Communication Technology in Cultural Heritage. Short Papers: Where Hi-Tech Touches the Past: Risks and Challenges for the 21st Century. Budapest: EPOCH, 2006.

3. Ioannides, Marinos (Ed.) u.a: The e-volution of Information Communication Technology in Cultural Heritage. Prohject Papers: Where Hi-Tech Touches the Past: Risks and Challenges for the 21st Century. Budapest: EPOCH, 2006.

4. A. Georgopoulos (Ed.), Anticipating the future of the cultural past. Proceedings of the XX1st International Symposium CIPA, Athens 2007. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XXXVI-5/C53, 2007.

5. Dequal Sergio (Ed.): International Cooperation to save the World's Cultural Heritage. Proceedings of the International CIPA Symposium in Torino, Italy. International Archives of CIPA Vol XX, Torino 2005 and The ISPRS International Archives of Photogrammetry, Remote Sensing and Spatial Information Systems Vol. XXXVI-5/C34 ISSN 1682-1750. € 100 plus postage. To be ordered from [sergio.dequal@polito.it](mailto:sergio.dequal@polito.it)

6. Orhan M. Altan (Ed.): Proceedings of ISPRS Commission V, (Petros Patias, President) of the XXth International Congress for Photogrammetry, Remote Sensing and Geoinformation, Istanbul 12-23 July 2004, The ISPRS International Archives of Photogrammetry, Remote Sensing and Spatial Information Systems Vol. XXXV Part 5. 998 pages. Approx. one third of the publications are interesting for cultural heritage recording. ISSN 1682-1750. € 100 plus postage. To be ordered from [Oaltan@itu.edu.tr](mailto:Oaltan@itu.edu.tr)

7. Orhan M. Altan (ed.): New Perspectives to Save the Cultural Heritage. Proceedings of the International CIPA Symposium in Antalya, Turkey. International Archives of CIPA Vol XIX, Antalya 2003 and The ISPRS International Archives of Photogrammetry, Remote Sensing and Spatial Information Systems Vol. XXXIV-5/C15 ISSN 1682-1750. € 100 plus postage. To be ordered from [Oaltan@itu.edu.tr](mailto:Oaltan@itu.edu.tr)

8. Petros Patias (Ed.): "Close Range Imaging, Long Range Vision". Proceedings of the Symposium of ISPRS Commission V (2-6 September 2002 in Corfu, Greece). Again one third of all the 115 contributions concern CIPA, specially the area Image Analysis and Spatial Information Systems for Applications in Cultural Heritage. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol XXXIV-5/V, 622 pages, ISSN 1682-1750, Thessaloniki, 2002. A4, 750 pp. € 100 plus postage. To be ordered from treasurer@cipa.icomos.org

9. Wolfgang Boehler (Ed.): Scanning for Cultural Heritage Recording. Workshop Proceedings of CIPA's Working Group 6 on Integrated Surveying Methods for Heritage Recorders, Corfu, 1-2 September 2002. A4, 160 pp. The volume contains keynote papers on 3D scanning hardware and software and many fine examples of projects where scanners were used for heritage recording purposes. CD included. Aristotle University Thessaloniki, 2002. € 50 plus postage. To be ordered from treasurer@cipa.icomos.org

10. Joerg Albertz (Ed.): "Surveying and Documentation of Historic Buildings - Monuments - Sites, Traditional and Modern Methods". Proceedings of the International CIPA Symposium in Potsdam, Germany, 18 - 21 Sept. 2001. International Archives of CIPA Vol. XVIII, 656 pages, Berlin 2002. ISSN 0256-1840. € 50 plus postage. To be ordered from treasurer@cipa.icomos.org

11. Klaus Hanke, Pierre Grussenmeyer: "Current advances in 3D reconstruction and Documentation of Cultural Heritage". A Tutorial of CIPA's Working Groups 3 and 4 on Simple Methods for Heritage Recording and on Digital Image Processing and Vision Sciences in Conservation, Corfu, Greece, 2 Sept. 2002. To be ordered from treasurer@cipa.icomos.org

12. Petros Patias (Ed.): "Close Range Imaging, Long Range Vision". Proceedings of the Symposium of ISPRS Commission V (2-6 September 2002 in Corfu, Greece). One third of all the 115 contributions concerned CIPA, specially the area Image Analysis and Spatial Information Systems for Applications in Cultural Heritage. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol XXXIV-5/V, 622 pages, ISSN 1682-1750, Thessaloniki, 2002. A4, 750 pp.

13. Camillo Martins Gomes (Ed.): "Mapping and Preservation for the New Millenium". Proceedings of the International Symposium of CIPA in Recife, Brazil,

3 - 6 Oct. 1999. International Archives of CIPA Vol. XVII available from the ICOMOS Documentation Centre Paris as Machine Copy against costs or via internet from <http://cipa.icomos.org>

2. Publications under development are from:

- CIPA Task Groups:
- Underwater Photogrammetry for Archaeology (Pierre Drap, Paul Chapman)
- "Open Source" in use for the Cultural Heritage communication process (Markus Jobst)
- RecorDim Task Groups (<http://extranet.getty.edu/gci/recordim/>)
- Information Warehouse (<http://extranet.getty.edu/gci/recordim/info.html>)
- Training: Metric Survey Skills in Conservation (Sarah Lunnon, UK)
- RecorDIM Information Warehouse (Andrew Powter, Canada)
- Survey on Heritage Recording as a Property Management and Project Delivery Practice (Natalie Bull, Canada)
- Principles and Guidelines for the Recording, Documentation and Information Management of the Built Cultural Heritage (François LeBlanc, USA)
- Low-Cost Standards for Architectural Heritage RecorDIM (Lazar Sumanov, FYROM)
- Collecting, compiling, cataloging and sharing Heritage Stereo views (Walter Schuhr, Germany)
- Tabulation of task specific technologies for RecorDIM activities in India (Divay Gupta, India)
- Rock-Art Science Task Group (Daniel Arsenault, Canada)
- Generic GIS Template for the Management of Heritage Places (Fulvio Rinaudo, Italy, Gaetano Palumbo, France)
- Technical Monitoring of Large Archaeological Sites (Peter Waldhäusl, Austria)
- Documentation for World Heritage Nominations and Monitoring (Giora Solar, Israel)
- Persian Heritage Archive (Abbass Malian, Iran)
- Documentation and support of restoration of the traditional architecture in Nias, Indonesia (Ulrike Herbig, Petra Gruber, Austria)
- Multilingual Dictionary and Glossary of Terms for the Heritage Recording and Documentation in Internet (Jozef Jachimski, Poland)
- Survey of architecture and cultural heritage by Phototacheometry (José Luis Lerma, Spain)
- International Heritage Documentation Standards (Bill Blake, UK)

3. Official CIPA Publications are also available

- Statutes and Bylaws <http://cipa.icomos.org/index.php?statues>

- CoG Book: CIPA Operational Guidelines: <http://cipa.icomos.org/index.php?id=18>
- Open Call for CIPA Task Group Formation: <http://cipa.icomos.org/index.php?id=16>
- Open Call for RecorDim Task Group Formation: <http://extranet.getty.edu/gci/recordim/pdf/taskgroup-procedures.pdf>

**CIPA's Website is <http://cipa.icomos.org>**

### **C. Working Groups**

A CIPA Working Group is a limited but manageable group of interested people willing to work on one of CIPA's permanent areas of interest. The Working Groups are intended to be stable, and more permanent than Task Groups.

In all instances, the scope of the Working Groups will include single objects, assemblages and sites/landscapes, and the Working Groups will address both tangible and intangible aspects of cultural heritage.

#### **Working Group I:**

##### **Data Acquisition and Recording Techniques for Cultural Heritage Documentation**

**Chair: Jose Luis Lerma, Bill Blake**

TOR: This Working Group will coordinate and initiate activities and research into the acquisition of data and information for the purpose of documenting cultural heritage. The WG is primarily focussed on the collection of data and information.

The WG will address manual measurement, field survey methods, film based and digital photography, video recording, photogrammetric techniques, laser scanning, sonar scanning, aerial photography, satellite imaging, geophysical prospecting techniques and ...

#### **Working Group II:**

##### **Documentation and Information Management**

**Chair: Fulvio Rinaudo, NN**

TOR: This Working Group will coordinate and initiate activities and research into the processing, enhancement and quality control of information in cultural heritage documentation. The WG will address the use of geographic, management and multimedia information systems, display and visualisation techniques, 2d and 3d modelling techniques and systems, metadata and quality standards, web based applications etc.

### **Working Group III: Training, Technology Interchange and Communication**

**Chair: Ana Almagro, Mario Santa**

TOR: This Working Group will coordinate and initiate activities and research into education and training at fundamental, advanced and professional levels ... including the development of computer assisted teaching and learning.

The WG will also coordinate and initiate activities and research in the transfer of techniques and technologies used in cultural heritage documentation between all interested parties. The WG will facilitate communication between CIPA and other International organisations, fellow researchers and the public in general.

### **D. INTER-INSTITUTIONAL COOPERATION**

1. The main cooperation is that with ISPRS, the International Society for Photogrammetry, Remote Sensing and Spatial Information Sciences. The cooperation is defined by the CIPA Statutes, controlled by Society Delegates. CIPA has the status of a Permanent ISPRS Committee as well as of an International Scientific ICOMOS Committee. Historically CIPA is also an ICOMOS International Scientific Committee with fruitful cooperation with its other ISCs.

2. For 2002 - 2007 CIPA has a strong cooperation with the Getty Conservation Institute and with ICOMOS international in the framework of the RecorDIM Initiative, coordinated by Bill Blake. In this framework also many other cooperations exist, as e.g. with English Heritage.

### **IV. FINANCIAL SUPPORT**

CIPA has a dozen of Sustaining and Institutional Members which pay a yearly membership fee according to their size. But travels are normally being paid by the delegating institution or university. A further income is the symposia which cover the hotel expenses of the Executive Board and the printing costs of the Proceedings. A small surplus helps to cover mailing costs. A further but very small income results from selling of the proceedings.

# REPORT OF ISPRS AD-HOC GROUP ON STANDARDS TO THE GENERAL ASSEMBLY FOR 2004-2008, BY WOLFGANG KRESSE

The activities of the Ad-hoc group on Standards are focused on a regular observation of the standardization activities of the official standardization organizations and the industry consortia. This is done through a membership in the ISO/TC 211 "Geographic information/ Geomatics" with functions in the development of standards, through a representation in the Global Earth Observation System of Systems (GEOSS), and through related activities in the Open Geospatial Consortium and EuroSDR.

## 1. GEOSS

Since the formation of GEOSS another type of standardization organizations has shown up. Formed by the United Nations the primary task of GEOSS is an integrated view on the world's ecological system in order to understand and eventually influence hazardous processes for mankind like the Earth's warming. Though standardization is not GEOSS's primary focus the practical work soon leads to standards. This work tends to duplicate the activities of ISO/TC 211 because ISO formally connects the important players in a field as liaison-members. Therefore the participants in the GEOSS-process are liaison-members of ISO/TC 211 as well.

An interoperability interface and the register for storing GEOSS standards and other interoperability arrangements have been developed and are being operated as a GEOSS resource. This work is led by the Standards and Interoperability Forum (SIF) of GEOSS. The SIF-group meets with 2- to 3-weeks intervals by means of a combination of face-to-face meetings and teleconferences. The outcome of this work is a register of the existing standards. However, it is not the responsibility of the SIF-group to insure interoperability among the systems. It is rather the responsibility of the system-suppliers to ensure this interoperability and to be compliant with the given standards.

The author is the representative of the ISPRS to the SIF.

## 2. ISO/TC 211

The last two meetings of ISO/TC 211 took place in Xi'an, China (fall 2007) and Copenhagen, Denmark (spring 2008). The ISO 19101-2 "Reference model for imagery", and the ISO 19115 "Metadata for imagery" are technically complete and now wait to complete their formal procedures for an International Standard. The ISO 19129 "Framework for imagery" has been reduced in size because much of the original contents have become part of other standards like ISO 19101-2. The remaining parts will be completed as the final ISO 19129 in less than a year.

The U.S. has presented an enhanced document for the ISO 19130 with the modified title "Imagery sensor models for geopositioning". This document shall become a Technical Specification in 2009. It standardizes the metadata necessary to georeference remotely sensed imagery. The following sensors are referenced in this specification: Digital aerial cameras, pushbroom and whiskbroom sensors, and Synthetic Aperture Radar. The specification also standardizes the widely used mathematical approaches to the georeference of imagery such as polynomials, Direct Linear Transformation, and True Replacement Model based on grid interpolation.

## 3. OGC

The Open Geospatial Consortium has turned its interest towards Earth Observation (EO) with the subtopics Sensor Web and Earth Observation products. GML (Geography Markup Language) and Web Mapping standards have been practically completed. One of the remainders is CityGML.

# REPORT OF ISPRS FINANCIAL COMMISSION CHAIR PETROS PATIAS TO THE GENERAL ASSEMBLY FOR 2004 - 2008

## 1. Membership of the Financial Commission

The General Assembly at Istanbul 2004 appointed the following members of the Financial Commission:

- Petros Patias, Greece (chair)
- Costas Armenakis, Canada (member)
- Lena Halounova, Czech Republic (member)

## 2. Role of the Financial Commission - Legal framework

The ISPRS Financial Commission operates under the following legal framework:

### a. According to the ISPRS Statutes (STATUTE XIV - Financial Commission)

(<http://www.isprs.org/documents/statutes04.html>)

1. At each Congress the General Assembly shall elect a Chairperson and two members of a Financial Commission.

2. The role of the Financial Commission shall be advisory and consultative. It shall examine expenditure of all kinds incurred by the Society and suggest to the General Assembly broad lines of financial policy for the Society having regard to its scientific responsibilities.

3. Between Congresses the Financial Commission shall report directly to the Council through the Secretary General at least once a year after the annual balance sheet has been prepared and examined. It shall be present in an advisory capacity at meetings of the General Assembly.

### b. According to the ISPRS Bylaws (BYLAW XI, 10(d) and (e) - Council)

(<http://www.isprs.org/documents/bylaws04.html>)

The Treasurer shall:

(d) keep account of all financial transactions and submit a statement of accounts at the end of each fiscal year to the Financial Commission for audit;

(e) assemble the complete accounts of the Society for the four-year term at the end of the fiscal year prior to the Congress and submit them to the Financial Commission for audit;

### c. and according to the ISPRS Bylaws (BYLAW XIV - Financial Commission):

1. Each member of the Financial Commission shall be of a different nationality. No member of the Financial Commission shall be of the same nationality as any member of Council. Delegates to the General Assembly shall not be excluded from serving as members of the

Financial Commission.

2. The Financial Commission shall advise the Council on all financial matters at any time upon the request of the Council.

3. The outgoing Financial Commission shall continue to serve after the Congress to ensure that the outgoing Treasurer hands over the accounts and funds of the Society to the new Treasurer within two months of the Congress. The new Financial Commission shall replace the outgoing Financial Commission at the same time as the changeover of Treasurers, and report to the Council that the changeover has been satisfactorily accomplished.

4. The Financial Commission shall examine and audit accounts of the Treasurer once every year, and submit its recommendations to the Council.

5. In the event that a member of the Financial Commission becomes unable to continue in office, on the advice of the remaining members of the Commission, the Council may approve a replacement.

### d. Finally, according to the ISPRS Guidelines (Guidelines for ISPRS Financial Commission)

(<http://www.isprs.org/documents/guidelines/FinCom.html>)

The role of the Financial Commission of ISPRS shall be advisory and consultative, and shall involve the following responsibilities:

1. To annually examine and audit accounts of the Treasurer and submit its findings in a report to Council no later than 31 May of each year.

2. To examine income and expenditures of the Society, and suggest to the Council and the General Assembly guidelines of financial policy, having regard to the Society's scientific and administrative responsibilities.

3. To advise the Council on all financial matters, including placement of investments and size of reserve, at any time upon the request of the Council.

4. To advise Council of the appropriateness of the annual budget prepared by the Treasurer and approved by Council.

5. To examine all accounts and claims submitted by Council members and others included in the Treasurer's report, to verify their accuracy and ensure that they are consistent with ISPRS spending policies.

6. To ensure reconciliation of accounting discrepancies and co-sign with the Treasurer the annual budget, statement of receipts and payments and balance sheet

by the end of May of each year and report directly to the Council through the Secretary General.

7. To be present in an advisory capacity at meetings of the General Assembly.

8. To meet at least once during its four-year term to develop financial policies.

9. To advise Council on proposals for new expenditures or new proposals that incur additional expenditure by the Society.

Historically, the role of the FC was mainly the “auditing” function and less the “advisory” one. This has been pointed out also at the previous FC Report (Heinz Rurther, 2004). The current Council and the FC started a discussion on the role of the FC as early as 2004. During this period (2004-2008) the appointment of an external accounting-auditing firm (Bormel Grice & Huyett) also eased the discussion, since the “auditing” function of the FC has been undertaken by this firm and thus the “advisory and consultative” role, according to the spirit and the letter of the Statute XIV, could be now emphasized.

The discussion finally concluded in December 2007 (Council Istanbul meeting) and the final recommendations of the FC to the Council are the following:

- No changes to either Statutes or Bylaws are necessary.
- The suggested changes to Guidelines are as follows:

The role of the Financial Commission of ISPRS shall be advisory and consultative, and shall involve the following responsibilities:

1. To annually examine/inspect the financial records, the annual financial reports and the audit reports to ensure that all in the financial records are well documented (maintenance of records, bank statements, expenses, etc), that revenues and expenses are based on appropriately taken decisions and that all the required documentation is in order and available. The findings are reported to Council no later than 31 May of each year.

2. To advise Council and the GA on Guidelines of financial policy as well as on setting up a 4-year Budget Program and categorize expenses and assigning upper limits of each expense category as percentage of the projected income.

3. To advise the Council on all financial matters, including placement of investments and size of reserve, at any time upon the request of the Council.

4. To advise Council of the appropriateness of the annual budget prepared by the Treasurer and approved

by Council.

5. FC has the right of random sample checks on expenditures when it is considered necessary.

6. To be present in an advisory capacity at meetings of the General Assembly.

7. To meet at least once during its four-year term to develop financial policies.

8. To advise Council on proposals for new expenditures or new proposals that incur additional expenditure by the Society.

We consider these changes vital for the function of the future FC and the ISPRS in general, since it concludes a very lengthy discussion in ISPRS and helps the FC to better serve the Society.

### **3. Meetings of the Financial Commission**

Other than the meeting immediately after the election of the FC in Istanbul in 2004, there was no opportunity for the Commission to meet during the 2004-2008 period. However, the FC members regularly exchanged views and information through emails. The FC chair has been invited and participated in two Council meetings (Zurich, Dec. 2006 and Istanbul, Dec. 2007) where important matters of FC concern were discussed. We consider vital for FC to participate regularly in Council meetings and we propose in future that FC is been invited where important financial decisions are discussed in Council.

### **4. Approval of Annual Financial Reports**

The Annual Financial Reports are prepared by the Treasurer, who estimates income and plans expenses for the fiscal year, submitted to the FC for inspection and approval and then presented to the Council for approval.

All the annual reports for the period 2004-2008 have been submitted by the Treasurer, as required, found to be appropriate and correct and have been approved by the FC. The Treasurer should be complimented on the detailed and pragmatic annual financial reports and budgets.

### **5. Membership fees**

There has been no membership fee increase since 1996. Nevertheless, banking costs continue to rise along with other costs for doing ISPRS business. In line to these, the Council proposed a membership fee increase to become effective January 1, 2009. The discussion between the Council and the FC started in 2006 and concluded in 2008 and the FC endorsed the recommendation of the Council to the General

Assembly in Beijing 2008 for an increase in the membership unit from 100 to 115.

## **6. Publications**

A major publication expense during the 2000-2004 period, concerned the publication of "Highlights", which summed up to 80,000 CHF (reducing though the previous 165,000 CHF). However, even this amount was quite high and the Council decided (and FC agreed) in further reduction of this cost, substituting the hard-copy publication with an electronic one (the transition made in 2006). Without reducing either the quality or the communication effectiveness of the "Highlights" the overall cost of this publication reduced from about 33,000 CHF in 2005, to about 20,000 CHF in 2006 and to 8,000 in 2007. These savings made possible to proceed with other publication and communication tools (like the ISPRS video, e-Newsletter, booklets and brochures together with the associated distribution costs) which further made the Society more visible and recognizable. In addition, professional editing of the Society's Journal speeded up the publication process and contributed to higher publishing quality, whereas the overall publication budget reduced.

## **7. Scientific Initiatives**

The increase of funds from 20,000 CHF (of the previous period) to 30,000 CHF per year for the period 2004-2008 is welcomed by the FC. It is regrettable, however, that only a small portion of the allocated funds have been actually used at the end. It is noted that the used amounts are only 2.153 CHF (2005), 6,189 CHF (2006), 10,982 CHF (2007) from a total of 30,000 CHF estimated per year.

## **8. Investments**

The investment policy of the Society and the distribution of the investment to different currencies and risk levels, with the majority of the funds in conservative, low risk investments, proved prudent. The adopted investment structure avoided potentially significant losses due to fluctuation in the international markets, experienced over the past years, and the Society's assets seem to be secure.

## **9. Recommendations and Conclusions**

In conclusion it is suggested that the incoming Council.

- Revisit the Guidelines of operation for FC and make the proposed changes, in order to focus the FC activities according to the spirit of the Statutes.
- Further involve the FC in the financial decision process and in early stages. In order for FC to be able to fulfil its role, it is vital that financial plans and budget projections be brought to the attention of FC, and not only the a-posteriori approval of an annual report to be requested.
- Further promote the communication of the Society through electronic means.
- Place more emphasis, set up rules, deadlines and transparent procedures, advertise and promote the scientific initiatives among the ISPRS members and especially the Youth Forum.

Finally, it can be stated that the Society's finances are in good standing and the financial affairs are well managed.

# **ISPRS**

2008

## **SCIENTIFIC PROGRAMME**

Overall Programme

Tutorials and Workshops

Reports of Technical Commission Presidents

Youth Forum

# OVERALL PROGRAMME

	2008.07.02 Wednesday	2008.07.03 Thursday	2008.07.04 Friday	2008.07.05 Saturday	2008.07.06 Sunday	2008.07.07 Monday	2008.07.08 Tuesday	2008.07.09 Wednesday	2008.07.10 Thursday	2008.07.11 Friday
07:30										
08:00							BU			
08:30										
09:00	WS&TU	WS&TU	PTS	TS	YF	PTS	TS	TS	PTS	TS
09:30		B	B	GA	B	B	B	CC	B	BU
10:00							TV	TV	TV	B
10:30										
11:00	WS&TU	WS&TU	TS	TS	YF	TS	TS	CC	TS	TS
11:30										
12:00									EX	
12:30	L	L	L	L	YFPS	L	L	L	L	L
13:00						BU	BU	EX		
13:30										
14:00	WS&TU	WS&TU	PS	PS	YF	PS	PS	PS	PS	TS
14:30		GA	BU	BU	WES	UF	UF	UF		
15:00	B									
15:30	WS&TU	B	B	B		GA	TV	GA	TV	B
16:00										
16:30		B	TS	TS	YF	TS	TS	TS	TS	
17:00										
17:30	BU	Opening Ceremony								
18:00										
18:30										
19:00						Exhibitors' Reception				
19:30		Welcome Reception	WS							
20:00		SP	SP	SP	SP		SP	SP	Gala Dinner	
20:30										
21:00										
21:30										
22:00										

- WS&TU Workshop & Tutorial
- GA General Assembly
- PTS Plenary Session
- TS Technical Session
- PS Poster Session
- YF Youth Forum
- EX Exhibition
- CAITCON
- UF Users' Forum
- WES White Elephant Session
- BU Business Meeting
- SP Social Program
- TV Technical Visit
- L Lunch
- B Break

# TUTORIALS AND WORKSHOPS

Following Tutorials and Workshops were held on 2, 3 and 4 July 2008:

## Tutorial

**TU-1: Spatial Planning and Decision Support Systems**

Chair: Ali Sharifi

**TU-2: Modeling Uncertainties in Spatial Data and Analysis**

Chair: John Shi

**TU-3: Introduction to Terrestrial Laser Scanning**

Chair: Derek D. Lichti

**TU-5: Principles of Fuzzy Logic and Applications in GIS**

Chair: Wolfgang Kainz

**TU-6: Spatio-temporal Modeling, Analysis, and Data Mining**

Chair: Abdülvahit Torun

**TU-7: GIS Updating from Imagery and Collateral Data Sources**

Chair: Christian Heipke

**TU-8: GPS/INS Integration for Direct Georeferencing Applications**

Chair: Naser El-Sheimy

**TU-9: Introduction to Sensor Web and its Geospatial Applications**

Chair: Steve Liang, Vincent Tao

**TU-10: Information Extraction from High Resolution Optical Satellite Sensor**

Chair: Karsten Jacobsen

## Workshop

**WS-1: ISO/TC211 and CEN/TC281 Standardization**

Chair: Hans Knoop

**WS-2: Landcover Classification Harmonization**

Chair: Hans Knoop

**WS-3: Air Quality and Health**

Chair: Amy Budge

**WS-4: Networks for Networks (NfN) 2008: Leveraging Global Partnerships in Geomatic Science and Engineering**

Chair: Byung-Guk Kim (KLSG), Nicholas Chrisman(GEOIDE)

**WS-5: Elsevier Workshop on How to Write Good Journal Papers**

**WS-6: Practical Steps Towards Global DEM Interoperability**

Chair: Jan-Peter Muller

# Friday 4 July 2008

<b>08:30</b> <b>10:00</b>	<b>Plenary Session 1 (PTS-1)</b> (Convention Hall No.1)	
<b>10:00</b> <b>10:30</b>	COFFEE BREAK	
<b>10:30-12:00</b>	<p><b>TS WG I/2 (1)</b> SAR Applications (Convention Hall No.2A)</p> <p><b>TS SS-4</b> Modern Navigation and Earth Observation (Convention Hall No.2B)</p> <p><b>TS WG V1 (1)</b> Industrial Vision Metrology - Calibration &amp; Verification (Convention Hall No.2C)</p> <p><b>TS SS-1</b> Operation and International Coordination for Earth Observing Systems (201A Conference Room)</p>	<p><b>TS WG VII/2 (1)</b> Information Extraction from SAR Data (201B Conference Room)</p> <p><b>TS WG II/1 (1)</b> Spatio-temporal Modeling (305C Conference Room)</p> <p><b>TS Th5-5</b> Component-Based GIS (305B Conference Room)</p> <p><b>TS WG VI/1</b> Educational Frameworks and Methodologies (307 Conference Room)</p>
<b>12:00</b> <b>13:30</b>	LUNCH	
<b>13:30-15:30</b>	<p><b>PS WG I/1</b> Standards, Calibration and Validation</p> <p><b>PS WG I/3</b> Multi-platform Sensing and Sensor Networks</p> <p><b>PS WG I/6</b> Small Satellites</p> <p><b>PS ICWG IC I/V</b> Autonomous Vehicle Navigation</p> <p><b>PS WG II/1</b> Spatio-Temporal Modeling</p> <p><b>PS TC III (Vol. III/A)</b> Photogrammetric Computer Vision</p> <p><b>PS WG IV/1</b> Spatial Data Infrastructure</p> <p><b>PS WG IV/2</b> Image-Based Geo-Spatial Information Management</p> <p><b>PS WG V/1</b> Industrial Vision Metrology Systems and Applications</p> <p><b>PS WG VII/1</b> Fundamental Physics and Modeling</p> <p><b>PS WG VII/2</b> Information Extraction from SAR Data</p>	<p><b>PS WG VII/7</b> Innovative Problem Solving Methodologies for Less Developed Countries</p> <p><b>PS ICWG VII/IV</b> Derivation of Global Data, Environmental Change and Sustainability Indicators</p> <p><b>PS WG VIII/1</b> Human Settlements and Impact Analysis</p> <p><b>PS SS-1</b> Operation and International Coordination for Earth Observing Systems</p> <p><b>PS SS-2</b> Digital Earth- Status and Trends</p> <p><b>PS SS-3</b> Spatial Data Infrastructure (SDI) and Spatial Information Grid (SIG)</p> <p><b>PS SS-4</b> Modern Navigation and Earth Observation</p> <p><b>PS SS-6</b> Geo-Information for Disaster Mapping</p> <p><b>PS SS-10</b> Standards and Standardization of Geo-Spatial Information</p> <p><b>PS SS-17</b> Western Area Mapping and 1:50000 Database Updating in China with High Resolution Imagery</p>

<b>15:30</b> <b>16:00</b>	COFFEE BREAK	
<b>16:00-17:30</b>	<p><b>TS WG III/1</b> Automatic Orientation Methods (Convention Hall No.2A)</p> <p><b>TS ThS-1</b> Sensor Networks and Homeland Security (Convention Hall No.2B)</p> <p><b>TS SS-14</b> Digital Olympics (Convention Hall No.2C)</p> <p><b>TS WG VII/6(1)</b> Remote Sensing Data Fusion (201A Conference Room)</p>	<p><b>TS WG VII/1</b> Fundamental Physics and Modelling (201B Conference Room)</p> <p><b>TS WG IV/1(1)</b> Spatial Data Infrastructure (305C Conference Room)</p> <p><b>TS SS-11</b> CARTOSAT-SAP (305B Conference Room)</p> <p><b>TS WG IV/7</b> Extraterrestrial Mapping (307 Conference Room)</p>
<b>19:00</b> <b>21:00</b>	<p><b>Workshop 5 (WS-5)</b> Elsevier Workshop on How to Write Good Journal Papers (Convention Hall No.2A)</p>	

# Saturday 5 July 2008

<p style="text-align: center;"><b>08:30-10:00</b></p>	<p><b>TS WG IV/6 &amp; ThS-8</b> Location Based Services (Convention Hall No.2A)</p> <p><b>TS SS-15</b> Future of Geographic Information Science (Convention Hall No.2B)</p> <p><b>TS WG VIII/2 (1)</b> Public Health (Convention Hall No.2C)</p> <p><b>TS ICWG I/V</b> Autonomous Vehicle Navigation (201A Conference Room)</p> <p><b>TS WG II/2</b> Spatial Reasoning, Analysis, and Data Mining (201B Conference Room)</p> <p><b>TS WG I/2 (2)</b> Full-waveform and Multi-pulse LiDAR (307 Conference Room)</p>	<p><b>YF-Opening Ceremony</b> (305C Conference Room)</p> <p><b>YF-1</b> Multisource and Multiscale Data Acquisition (305C Conference Room)</p> <p><b>YF-2</b> From Image to Information (305B Conference Room)</p>
<p><b>10:00</b> <b>10:30</b></p>	<p>COFFEE BREAK</p>	
<p style="text-align: center;"><b>10:30-12:00</b></p>	<p><b>TS WG VIII/8</b> Polar and Alpine Research (Convention Hall No.2A)</p> <p><b>TS WG I/5 (1)</b> Sensor Orientation of Optical Spaceborne Sensors (Convention Hall No.2B)</p> <p><b>TS ThS-9</b> Realtime and Incremental Updating of Core Databases (Convention Hall No.2C)</p> <p><b>TS WG VI/6</b> Special Interests Group "Technology Transfer Caravan" (201A Conference Room)</p> <p><b>TS WG IV/5 (1)</b> Web-based Geo-information Services and Applications (201B Conference Room)</p> <p><b>TS WG II/7 (2)</b> Quality of Spatio-temporal Data and Models (307 Conference Room)</p>	<p><b>YF-3</b> Spatio-temporal Modeling and Representation (305C Conference Room)</p> <p><b>YF-4</b> Geospatial Information Service and Applications (305B Conference Room)</p>

<b>12:00 13:30</b>	LUNCH	<b>12:00 14:00</b>	<b>YF-Interactive Session</b>
<b>13:30-15:30</b>	<p><b>PS ThS-1</b> Sensor Networks and Homeland Security</p> <p><b>PS ThS-3</b> DEM Generation with High Resolution Optical Satellite Sensors</p> <p><b>PS ThS-23</b> UAV for Mapping</p> <p><b>PS WG II/2</b> Spatial Reasoning, Analysis, and Data Mining</p> <p><b>PS WG III/1 &amp; ThS 22</b> Automation in Image Orientation and Image Analysis</p> <p><b>PS WG IV/3</b> Automated Geo-spatial Data Acquisition and Mapping</p> <p><b>PS WG IV/4</b> Landscape Modelling and Visualisation</p> <p><b>PS TC VI</b> Education and Outreach</p> <p><b>PS WG VII/3</b> Information Extraction from Hyperspectral Data</p> <p><b>PS SS-12</b> Observation and Monitoring of Polar Regions</p> <p><b>PS SS-13</b> Education and Capacity Building in Geomatics</p>	<b>14:00-15:30</b>	<b>YF-White Elephant Session</b> (305 Conference Room)
<b>15:30 16:00</b>	COFFEE BREAK		
<b>16:00-17:30</b>	<p><b>TS WG ICWG VI</b> Integrated Systems for Mobile Mapping (Convention Hall No.2A)</p> <p><b>TS WG VIII/11 (1)</b> Sustainable Forest and Landscape Management (Convention Hall No.2B)</p> <p><b>TS WG VIII/12 (1)</b> Geological Mapping, Geomorphology and Geomorphometry (Convention Hall No.2C)</p> <p><b>TS WG VII/4 (1)</b> Advanced Classification Techniques (201A Conference Room)</p> <p><b>TS ThS-18</b> Change Detection (201B Conference Room)</p> <p><b>TS SS-7</b> Global Monitoring for Environment and Security (GMES) (201C Conference Room)</p> <p><b>TS WG V/3 (1)</b> Terrestrial Laser Scanning - Orientation (307 Conference Room)</p>	<b>16:00-18:00</b>	<p><b>YF-Panel Session</b> How to Get Involved in the Society and Enter upon a Successful Career for Young Professionals (305 Conference Room)</p> <p><b>YF-Student Consortium Assembly</b> (305 Conference Room)</p> <p><b>YF-Closing and Award Ceremony</b> (305 Conference Room)</p>

# Monday 7 July 2008

<b>08:30</b> <b>10:00</b>	<b>Plenary Session 2 (PTS-2)</b> (Convention Hall No.1)	
<b>10:00</b> <b>10:30</b>	COFFEE BREAK	
<b>10:30-12:00</b>	<p><b>TS SS-3</b> Spatial Data Infrastructure (SDI) and Spatial Information Grid (SIG) (Convention Hall No.2A)</p> <p><b>TS WG III/2 &amp; ICWG III/V</b> Image Sequences and Surfaces (Convention Hall No.2B)</p> <p><b>TS WG VIII/1 (1)</b> Human Settlements and Impact (Convention Hall No.2C)</p> <p><b>TS SS-13</b> Education and Capacity Building in Geomatics (201A Conference Room)</p>	<p><b>TS WG IV/5 (2)</b> Web-based Geo-information Services and Applications (201B Conference Room)</p> <p><b>TS ThS-3</b> DEM Generation with High Resolution Optical Satellite Sensors (305C Conference Room)</p> <p><b>TS WG IV/3 (1)</b> Automated Geo-spatial Data Acquisition and Mapping (305B Conference Room)</p> <p><b>TS WG I/2 (3)</b> Accuracy Validation of Lidar Data (307 Conference Room)</p>
<b>12:00</b> <b>13:30</b>	LUNCH	
<b>13:30-15:30</b>	<p><b>PS WG I/2 (1)</b> SAR Systems</p> <p><b>PS WG II/3</b> Multiple Representations of Image and Vector Data</p> <p><b>PS WG III/2 &amp; ICWG III/V</b> Image Sequences and Surfaces</p> <p><b>PS WG III/3 (1)</b> Lidar Sensing and Interpretation</p> <p><b>PS WG IV/5</b> Web-based Geo-information Services and Applications</p> <p><b>PS WG IV/6 &amp; ThS-8</b> Location Based Services</p>	<p><b>PS WG V/2</b> Cultural Heritage Documentation</p> <p><b>PS WG VII/4</b> Advanced Classification Techniques</p> <p><b>PS WG VIII/3</b> Atmospheric, Climate and Weather Research</p> <p><b>PS SS-7</b> Global Monitoring for Environment and Security (GMES)</p> <p><b>PS SS-11</b> CARTOSAT-SAP</p>
<b>15:30</b> <b>16:00</b>	COFFEE BREAK	
<b>16:00-17:30</b>	<p><b>TS WG II/3 (1)</b> Multiple Representations of Image and Vector Data (Convention Hall No.2A)</p> <p><b>TS WG I/1</b> Standards, Calibration and Validation (Convention Hall No.2B)</p> <p><b>TS WG IV/9 (2)</b> Mapping from High Resolution Data (Convention Hall No.2C)</p> <p><b>TS WG V/2 (1)</b> Modeling of Cultural Heritage Objects (201A Conference Room)</p>	<p><b>TS WG VI/2</b> E-learning (201B Conference Room)</p> <p><b>TS WG VII/2 (2)</b> Information Extraction from SAR Data (305C Conference Room)</p> <p><b>TS ThS-17</b> Geo-information Contribution to Sustainability Indicators (305B Conference Room)</p> <p><b>TS SS-8 (1)</b> From National Mapping to a European Spatial Data Infrastructure (307 Conference Room)</p>

## Tuesday 8 July 2008

<p style="text-align: center;"><b>08:30-10:00</b></p>	<p><b>TS WG I/3</b> Multi-platform Sensing and Sensor Networks (Convention Hall No.2A)</p> <p><b>TS WG II/4</b> Spatial Planning and Decision Support Systems (Convention Hall No.2B)</p> <p><b>TS WG III/3 (1)</b> Lidar Sensing and Data Analysis (Convention Hall No.2C)</p> <p><b>TS Session of ISPRS Prize for Best Papers by Young Authors (1)</b> (201A Conference Room)</p>	<p><b>TS WG VIII/6</b> Coastal Management Ocean Colour and Ocean State Forecasting (201B Conference Room)</p> <p><b>TS ThS-19</b> Integrated Coastal Zone Management (305C Conference Room)</p> <p><b>TS WG I/4 (1)</b> Geometric Properties of Current Digital Camera Systems (305B Conference Room)</p> <p><b>TS WG ICWG VII/IV</b> Derivation of Global Data, Environmental Change and Sustainability Indicators (307 Conference Room)</p>
<p><b>10:00</b> <b>10:30</b></p>	<p>COFFEE BREAK</p>	
<p style="text-align: center;"><b>10:30-12:00</b></p>	<p><b>TS ThS 23</b> UAV for Mapping(1) (Convention Hall No.2A)</p> <p><b>TS WG V2(2) &amp; ThS-13</b> Documentation of Cultural Heritage Sites (Convention Hall No.2B)</p> <p><b>TS SS-2</b> Digital Earth - Status and Trends (Convention Hall No.2C)</p> <p><b>TS Session of ISPRS Prize for Best Papers by Young Authors (2)</b> (201A Conference Room)</p> <p><b>TS WG ICWG II/IV</b> Dynamic and Multi-dimensional Systems and Applications (201B Conference Room)</p> <p><b>TS WG V1(3)</b> Industrial Vision Metrology - Applications (305C Conference Room)</p> <p><b>TS ThS-11</b> Early Warning Systems for Natural Hazards (305B Conference Room)</p>	<p><b>UF-1</b> Production Chain for New Imaging Sensors: Problems and Solutions (Convention Hall No.3)</p>
<p><b>12:00</b> <b>13:30</b></p>	<p>LUNCH</p>	

<p style="text-align: center;"><b>13:30-15:30</b></p>	<p><b>PS WG I/2 (2)</b> LiDAR Systems</p> <p><b>PS WG II/4</b> Spatial Planning and Decision Support Systems</p> <p><b>PS WG II/5</b> Communication and Visualization of Spatial Data</p> <p><b>PS WG II/6</b> System Integration and Interoperability</p> <p><b>PS WG III/3 (2)</b> Lidar Sensing and Interpretation</p> <p><b>PS WG III/4</b> Automatic Image Interpretation for City-Modeling</p> <p><b>PS WG IV/7</b> Extraterrestrial Mapping</p> <p><b>PS WG IV/8</b> Spatial Data Integration for Emergency Services</p> <p><b>PS WG IV/9</b> Mapping from High Resolution Data</p> <p><b>PS WG V/3</b> Terrestrial Laser Scanning</p> <p><b>PS WG VII/5</b> Processing of Multi-Temporal Data and Change Detection</p> <p><b>PS SS-9</b> Cultural Heritage Recording and Silk Road</p>	<p><b>UF-2</b> Thematic Information Extraction from Images (Convention Hall No.3)</p>
<p><b>15:30</b> <b>16:00</b></p>	<p>COFFEE BREAK</p>	
<p style="text-align: center;"><b>16:00-17:30</b></p>	<p><b>TS WG VIII/3 (1)</b> Atmospheric, Climate and Weather Research(1) (Convention Hall No.2A)</p> <p><b>TS SS-16</b> Terrestrial Laser Scanner Calibration Techniques (Convention Hall No.2B)</p> <p>TS WG V/4 Virtual Reality and Computer Animation (Convention Hall No.2C)</p> <p><b>TS SS-6</b> Geo-information for Disaster Mapping (201A Conference Room)</p>	<p><b>TS WG IV/2</b> Image-based Geospatial Information Management (201B Conference Room)</p> <p><b>TS WG VII/6 (2)</b> Remote Sensing Data Fusion (305C Conference Room)</p> <p><b>TS SS-9</b> Cultural Heritage Recording and Silk Road (305B Conference Room)</p> <p><b>TS WG V/3 &amp; ThS 15</b> Terrestrial Laser Scanning - Modelling (307 Conference Room)</p>

## Wednesday 9 July 2008

<p style="text-align: center;"><b>08:30-10:00</b></p>	<p><b>TS WG III/4</b> Building Detection and Reconstruction (Convention Hall No.2A)</p> <p><b>TS WG IV/4 (1)</b> Landscape Modelling and Visualisation (Convention Hall No.2B)</p> <p><b>TS WG VII/5 (1)</b> Processing of Multi-Temporal Data and Change Detection (Convention Hall No.2C)</p> <p><b>TS WG II/1 (2)</b> Spatio-temporal Modeling (201A Conference Room)</p> <p><b>TS SS-12</b> Observation and Monitoring of Polar Regions (201B Conference Room)</p> <p><b>TS WG V/2 (3)</b> Surveying Technologies in Archaeological and Architectural Documentation (201C Conference Room)</p> <p><b>TS WG I/6</b> Small Satellites (307 Conference Room)</p>	<p><b>CC-1</b> Computer Assisted Teaching CONtest - CATCON(1) (305 Conference Room)</p>
<p><b>10:00</b> <b>10:30</b></p>	<p>COFFEE BREAK</p>	
<p style="text-align: center;"><b>10:30-12:00</b></p>	<p><b>TS SS-10</b> Standards and Standardization of Geo-spatial information (Convention Hall No.2A)</p> <p><b>TS SS-17</b> Western Area Mapping and 1:50000 Database Updating in China with High Resolution Imagery (Convention Hall No.2B)</p> <p><b>TS WG II/7 (1)</b> Quality of Spatio-temporal Data and Models (Convention Hall No.2C)</p> <p><b>TS WG IV/3 (2)</b> Automated Geo-spatial Data Acquisition and Mapping (201A Conference Room)</p> <p><b>TS WG VIII/12 (2)</b> Geological Mapping, Geomorphology and Geomorphometry (201B Conference Room)</p> <p><b>TS WG VII/4 (2)</b> Advanced Classification Techniques (201C Conference Room)</p> <p><b>TS ThS-7</b> 3D City Modeling (307 Conference Room)</p>	<p><b>CC-2</b> Computer Assisted Teaching CONtest - CATCON(2) (305 Conference Room)</p>

<b>12:00</b> <b>13:30</b>	LUNCH	
<b>13:30-15:30</b>	<p><b>PS WG I/4</b> Airborne Digital Photogrammetric Sensor Systems</p> <p><b>PS ThS-2</b> Medium Format Cameras</p> <p><b>PS WG II/7</b> Quality of Spatio-Temporal Data and Models</p> <p><b>PS ICWG II/IV</b> Dynamic and Multi-Dimensional systems and Applications</p> <p><b>PS ThS-4</b> High performance visualization</p> <p><b>PS ThS-6</b> Emerging Technologies for Display and Visualization</p> <p><b>PS WG III/5</b> Models and Algorithms for Road Extraction and Traffic Monitoring</p> <p><b>PS WG V/4:</b> Virtual Reality and Computer Animation</p> <p><b>PS WG V/5</b> Development in Image Sensor Technology</p> <p><b>PS WG V/6</b> Medical Image Analysis, Human Motion and Body Measurement</p> <p><b>PS ICWG VI</b> Integrated Systems for Mobile Mapping</p> <p><b>PS WG VII/6</b> Remote Sensing Data Fusion</p> <p><b>PS WG VIII/2</b> Hazards, Disasters and Public Health</p> <p><b>PS WG VIII/4</b> Management of Tropical Environments Research</p> <p><b>PS WG VIII/12</b> Geological Mapping, Geomorphology and Geomorphometry</p>	<p><b>UF-3</b> On-demand Geo-spatial Data Updating, Integration and Web-based Geo-spatial Information Service (Convention Hall No.3)</p>
<b>15:30</b> <b>16:00</b>	COFFEE BREAK	
<b>16:00-17:30</b>	<p><b>TS WG IV/8</b> Spatial Data Integration for Emergency Services (Convention Hall No.2A)</p> <p><b>TS WG V/5</b> Development in Image Sensor Technology (Convention Hall No.2B)</p> <p><b>TS WG VIII/9</b> Arid Lands, Land Degradation and Desertification (Convention Hall No.2C)</p> <p><b>TS WG VIII/4</b> Management of Tropical Environments Research (201A Conference Room)</p>	<p><b>TS WG VI/3</b> International Cooperation and Capacity Building (201B Conference Room)</p> <p><b>TS WG VIII/1 (2)</b> Urban Components Classification (305C Conference Room)</p> <p><b>TS SS-19</b> Recording and Documenting the Acropolis of Athens - From Classical Ancient Greece to Modern Olympics (305B Conference Room)</p> <p><b>TS WG VIII/2 (2)</b> Land Slides and Earthquakes (307 Conference Room)</p>

# Thursday 10 July 2008

<b>08:30 10:00</b>	<b>Plenary Session 3 (PTS-3)</b> (Convention Hall No.1)	
<b>10:00 10:30</b>	COFFEE BREAK	
<b>10:30-12:00</b>	<p><b>TS WG VII/3</b> Information Extraction from Hyperspectral Data (Convention Hall No.2A)</p> <p><b>TS WG VI/4</b> Internet Resources and Datasets (Convention Hall No.2B)</p> <p><b>TS SS-8 (2)</b> From National Mapping to a European Spatial Data Infrastructure (Convention Hall No.2C)</p> <p><b>TS WG V/6</b> Medical Image Analysis, Human Motion and Body Measurement (201A Conference Room)</p>	<p><b>TS ThS-20</b> Public Health (201B Conference Room)</p> <p><b>TS WG III/5</b> Road Extraction and Traffic Monitoring (201C Conference Room)</p> <p><b>TS WG II/3 (2)</b> Multiple Representations of Image and Vector Data (305C Conference Room)</p> <p><b>TS ThS-21</b> 3D Modelling in Forestry Applications (305B Conference Room)</p>
<b>12:00 13:30</b>	LUNCH	
<b>13:30-15:30</b>	<p><b>PS WG I/5</b> Geometric Modeling of Optical Spaceborne Sensors and DEM Generation</p> <p><b>PS ThS-7</b> 3D City Modeling from Image and Laser Range Data</p> <p><b>PS ThS-9</b> Realtime and Incremental Updating of Core Databases</p> <p><b>PS ThS-11</b> Early Warning Systems for Natural Hazards</p> <p><b>PS ThS-17</b> Geo-Information Contribution to Sustainability Indicators</p> <p><b>PS ThS-18</b> Change Detection</p> <p><b>PS ThS-19</b> Integrated Coastal Zone management</p>	<p><b>PS WG VIII/6</b> Coastal Management Ocean Colour and Ocean State Forecasting</p> <p><b>PS WG VIII/7</b> Water Resources Security and Management</p> <p><b>PS WG VIII/8</b> Polar and Alpine Research</p> <p><b>PS WG VIII/9</b> Arid Lands, Land Degradation and Desertification</p> <p><b>PS WG VIII/10</b> Precision Farming and Sustainable Food Production</p> <p><b>PS WG VIII/11</b> Sustainable Forest and Landscape Management</p>
<b>15:30 16:00</b>	COFFEE BREAK	
<b>16:00-17:30</b>	<p><b>TS WG II/6</b> System Integration and Interoperability (Convention Hall No.2A)</p> <p><b>TS ThS-2</b> Medium Format Cameras (Convention Hall No.2B)</p> <p><b>TS WG I/2 (4)</b> New Commercial Systems and Technologies (Convention Hall No.2C)</p> <p><b>TS SS-18</b> Global DEM Interoperability (201A Conference Room)</p>	<p><b>TS ThS-16</b> New Approaches and Tools for Education and Capacity Building (201B Conference Room)</p> <p><b>TS WG VIII/2 (3)</b> Floods and Drought (305C Conference Room)</p> <p><b>TS WG V/1 &amp; ThS 12</b> Industrial Vision Metrology - Systems &amp; Design (305B Conference Room)</p>

# Friday 11 July 2008

<b>08:30-10:00</b>	<p><b>TS WG I/4 (2)</b> Radiometry and Future Prospects of Digital Camera Systems (Convention Hall No.2A)</p> <p><b>TS WG II/5</b> Communication and Visualization of Spatial Data (Convention Hall No.2B)</p> <p><b>TS WG IV/9 (1)</b> Mapping From High Resolution Data (Convention Hall No.2C)</p> <p><b>TS WG VIII/7</b> Water Resources Security and Management (201A Conference Room)</p>	<p><b>TS WG VIII/11 (2)</b> Sustainable Forest and Landscape Management (201B Conference Room)</p> <p><b>TS WG VIII/5</b> Policies, Treaties and Data Access (201C Conference Room)</p> <p><b>TS WG I/5 (2)</b> DEM Generation with Optical Spaceborne Systems (305C Conference Room)</p> <p><b>TS WG VII/5 (2)</b> Processing of Multi-Temporal Data and Change Detection (305B Conference Room)</p>
<b>10:00 10:30</b>	COFFEE BREAK	
<b>10:30-12:00</b>	<p><b>TS WG VIII/10</b> Precision Farming and Sustainable Food Production (Convention Hall No.2A)</p> <p><b>TS ThS-10</b> Lunar Exploratory Missions (Convention Hall No.2B)</p> <p><b>TS ThS-6</b> Emerging Technologies for Display and Visualization (Convention Hall No.2C)</p> <p><b>TS ThS-4</b> High Performance Visualization (201A Conference Room)</p>	<p><b>TS WG VI/5</b> Promotion of the Profession to Students (201B Conference Room)</p> <p><b>TS WG III/3 (2)</b> Interpretation of LIDAR Data (201C Conference Room)</p> <p><b>TS ThS-23 (2)</b> UAV for Mapping(2) (305C Conference Room)</p> <p><b>TS WG IV/1 (2)</b> Spatial Data Infrastructure (305B Conference Room)</p>
<b>12:00 13:30</b>	LUNCH	
<b>13:30-15:00</b>	<p><b>TS ThS-14</b> 3D Cameras (Convention Hall No.2A)</p> <p><b>TS WG VII/7</b> Innovative Problem Solving Methodologies for Less Developed Countries (Convention Hall No.2B)</p> <p><b>TS ThS-22</b> Automation in Image Analysis (Convention Hall No.2C)</p> <p><b>TS WG V/3 (3)</b> Terrestrial Laser Scanning – Application (201A Conference Room)</p>	<p><b>TS WG I/2 (5)</b> Geometric and Image Quality Advances in SAR (201B Conference Room)</p> <p><b>TS WG IV/4 (2)</b> Landscape Modelling and Visualisation (201C Conference Room)</p> <p><b>TS WG VIII/2 (4)</b> Disaster Risks Monitoring &amp; Management (305C Conference Room)</p> <p><b>TS WG VIII/3 (2)</b> Atmospheric, Climate and Weather Research (305B Conference Room)</p>
<b>15:30 17:30</b>	<b>Closing Ceremony</b> (Convention Hall No.1)	

# REPORTS OF TECHNICAL COMMISSION PRESIDENTS ON XXI ISPRS CONGRESS

## Technical Commission I, Image Data Acquisition - Sensors and Platforms

Alain Baudoin, Commission I President (France)

The seven working groups of TC I are contributing almost 100 papers in oral sessions and 200 posters to the Congress. A large number of these presentations are related to WG 1/2 (SAR and LiDAR systems), showing the increasing interest for these techniques. The fast development of LiDAR was demonstrated in a plenary presentation by Juergen Dold from Leica Geosystems. Within the last year, the accuracy has been improved by a factor of four and the time of the survey has been cut by a factor ten. At the same time, the cost has decreased and the systems have become more portable and versatile. New SAR processing

techniques were presented in one of our sessions. Another presentation from Jose Achache demonstrated the interest in enhancing co-ordination of space-borne, airborne and terrestrial acquisition systems. This is the goal of GEOSS, the Global Earth Observation System of Systems, proposed by GEO, the Intergovernmental Group on Earth Observation. GEO is a collection of 74 countries and 51 organisations working together for the benefit of society. International collaboration was also covered in the Special Session SS-1 on Operation and International Co-ordination for Earth Observing Systems.

## Technical Commission II, Theory and Concepts of Spatio-Temporal Data Handling and Information

Wolfgang Kainz, Commission II President (Austria)

Technical Commission II in its present form was introduced at the Istanbul Congress 2004 to express the increased focus of the ISPRS on GIS and geographic information science. Together with Technical Commission IV, both commissions concentrate on the theoretical (TC II) and practical (TC IV) aspects of geo-information. Technical Commission II comprises seven working groups and one inter-commission working group with TC IV. The working groups address major issues in geo-information science. These include spatio-temporal modelling, spatial reasoning, analysis and data mining, multiple representations, visualisation, spatial decision support, system integration and interoperability, quality and uncertainty of spatial data and models, and 3D and dynamic data handling. The penetration of GIS technology in an increasing number of areas leads us to believe we need more theory on spatial modelling, interoperability and visualisation. This is evident from the tremendous rise of services like Google Earth and Microsoft Virtual World. These services have a widespread impact on society and the way we deal with spatial information. Could anyone imagine 10 years ago that we would be able to virtually visit any place on Earth? 3D visualization is becoming more common, but there are many issues and challenges. Quality propagation through spatial analysis, spatial decision support with highly complex

data, interoperability of heterogeneous systems and geo-sensor networks are several examples that pose interesting questions of ontology and data-handling. Over the last four years the working groups of TC II have addressed many of these questions in symposia and workshops. These issues were also considered at the TC II Symposium GICON 2006, which was organized as a joint event of Indian Society of Remote Sensing, International Cartography Association and International Geographical Union. Three volumes of proceedings were published – one for each society. One of the WG symposia resulted in Volume 5 of the ISPRS book series on Advances in Spatio-Temporal Analysis, edited by X. Tang, Y. Liu, J. Zhang and W. Kainz. Several of the WG officers wrote contributions to the 2008 ISPRS Congress Book. Our findings are also available in the congress proceedings. After a thorough review, process papers have been selected for oral or poster presentation. Nearly 200 papers are published in the archives. M. Kokla, secretary of WG II/6, will receive the Best Paper by Young Authors award. It is expected that under the new TCP, the commission will continue the work started in the first four years of strengthening the ISPRS in the field of geo-information science. It will continue to raise the profile of the ISPRS as a society that spans the whole range of spatial data handling and addresses the needs of modern society.

# Technical Commission III, Photogrammetric Computer Vision and Image Analysis

Wolfgang Förstner, Commission III President (Germany)

Curious about how 3D city models are generated from laser point clouds? Interested to know how roads can be identified from videos? Want to get your hands on algorithms you always found were not working well enough? Then you are in the middle of the research being undertaken by TC III. As photogrammetrists, we are among the few thousand researchers in the fast-growing field of computer vision, that is, the field concerned with making computers see. The efforts of TC III's six working groups have yielded interesting results. Automation of close range bundle adjustments, where only control points require manual interaction, was developed. The generation of highly detailed surface models constructed from images has advanced to a point where images are becoming an interesting alternative to LiDAR. The direct access to 3D information from LiDAR systems has triggered a large

amount of research, including research into increased morphological quality for digital elevation models, ease of 3D-reconstruction for large build-up areas, and detailed analysis of forest areas. TC III found that information density can be increased by the availability of intensity and waveform, enabling more detailed classifications. Also, the interpretation of aerial and terrestrial images successfully grasped techniques from pattern recognition and machine learning, especially for the modelling of road networks and façade structures. Finally, the analysis of video sequences is becoming a hot topic, especially for the highly challenging and relevant task of so-called 'simultaneous localisation and mapping', both from the ground and air, using UAVs. You can expect fascinating developments from Commission III in the near future.

## Technical Commission IV, Geodatabases and Digital Mapping

Shailesh Nayak, Commission IV President (India)

Maps have been an effective means of representing information for the last 2000 years. The development of space, geospatial, computing and communication technologies has significantly altered the acquisition, organisation, analysis and dissemination of information. A major issue is updating databases routinely. Databases on a variety of themes have been produced at the global, national and local levels. They have been effectively used for resource management, climate change and environmental protection. We are developing techniques to update these databases automatically. The recent availability of high resolution stereo data from aerial and satellite platforms has revolutionised data acquisition and provided an opportunity to develop techniques for automatic data extraction. Image databases with high temporal resolution are expanding, especially for ocean applications. Developments in visualisation allow us to display landscapes and seascapes virtually, and to depict both global and local processes. The use of GIS to access, analyse and disseminate spatial data has enhanced web-based services. Advancements in grid computing-facilitated web GIS allows us to more efficiently manage massively distributed computing/storage resources. Open-source software provides new, cost-effective solutions to web-based geospatial information and services. Location-based services enable wired and wireless users to integrate geospatial information in developing a solution. The continuing

development of open standards and interoperability opens up enormous potential for sharing scientific data. In the future, data will be supplied to the variety of users and to common web-based and location based service standards. Database application and service development for the benefit of society encompasses many critical areas: disaster management, climate modelling, natural resource management and ecosystem protection are only some of these areas. The effective use of geospatial technology has driven the development of early warning centres, especially for tsunamis. It has also fuelled dramatic improvements in disaster and emergency response. Geospatial technology has been used for data acquisition, organisation, representation, visualisation, analysis, modelling and dissemination of advisories, including the generation of hazard or risk maps. Rescue and relief operations rely on the collection, integration and analysis of data – including 3D data – within the first few hours or days. A number of missions to explore the resources of our solar system are currently underway. The data supplied by these missions has started a new chapter in the mapping of extra-terrestrial systems and the creation of web-based spatial databases. The Beijing Congress will witness the culmination of research by TC IV working groups. It reflects the current state of knowledge in the field of geospatial technology and applications.

## Technical Commission V, Imaging and Laser Scanning Techniques

Hans Gerd Maas, Commission V President (Germany)

ISPRS Commission V is dealing with imaging and laser scanning techniques in a wide range of application fields, including industrial and engineering metrology, cultural heritage documentation, virtual reality 3D data acquisition, robotics, 3D motion analysis, quantitative medical imaging, biometry and many more. Most of these fields stand for market segments with a rapidly growing demand for automated, fast, efficient, reliable and precise 3D measurement techniques. A central issue in many developments is the integration of sensor technology with reliable data processing schemes

to generate precise and highly automated online or real-time photogrammetric measurement systems. In addition to all sorts of digital cameras – high resolution, high speed, central perspective, panoramic, hemispheric, telecentric, etc. – Commission V clientele are increasingly using terrestrial laser scanners and novel 3D-cameras. The advent of these devices has also boosted the interest in 3D point cloud processing and image analysis techniques.

## Technical Commission VI, Education and Outreach

Kohei Cho, Commission VI President (Japan)

TC VI deals primarily with educational matters related to photogrammetry, remote sensing and the spatial information sciences. The technological advancements in these three fields are numerous. Amateur photography, internet-based information services such as Google Earth and car navigation are widely used by the public today. The growth in interest in these applications is matched by increasing technical and educational needs. Education and training are no longer restricted to a few years of university, generally speaking. Rapid advancements in technology have increased the importance of lifelong education in our fields. The internet and e-learning play significant roles in lifelong education. Despite the growing availability of educational materials and e-learning courses, it is not easy for beginners and students to find appropriate educational materials. Promoting online information to the public will help to widen recognition and acceptance of e-learning material. WG VI/2 on e-learning undertook the project Analysis of E-Learning Software and Guidelines for Quality Assurance in Photogrammetry, Remote Sensing and GIS. The results were reported the Congress. This is a first step towards developing a quality assurance process to strengthen confidence in, and acceptance of, e-learning in university programs.

TC VI has also organised the educational software contest CATCON5 (9 July) at the Congress, to promote development of free educational software in our

technical fields.

TC VI is also responsible for providing education and capacity-building opportunities. WG VI/3 on International Cooperation and Capacity Building has organised a number of sessions on capacity building at the various international meetings. The Special Interest Group on Technology Transfer Caravan has provided annual study opportunities to students and young scientists of various countries. Like a travelling caravan, ISPRS experienced professionals visit different countries to teach quality seminars. This method has proven quite effective. Promotion of students is another important focus of TC VI. At the ISPRS Congress in Istanbul in 2004, the Student Consortium (SC) was set up under TC VI as the first official student organisation within the ISPRS. WG VI/5 on Promotion of the Profession to Students was established to support the Consortium. WG VI/5 and the SC jointly organised three successful summer schools from 2004 to 2008. The SC published a number of newsletters and expanded its international network.

Students presented their papers the 2nd Youth Forum (YF), hosted on 5 July of this year's Congress. During the YF panel session, SC statutes and officers were approved. The Congress is an opportunity for students to learn about ISPRS processes. This is a valuable experience for active SC members, who may become leaders of our society in the future.

## **Technical Commission VII, Thematic Processing, Modelling and Analysis of Remotely Sensed Data**

John van Genderen, Commission VII President (The Netherlands)

TC VII is presenting more than three hundred papers at the congress, in oral technical sessions, special sessions, theme sessions, and poster sessions. Four volumes of proceedings have been produced to publish the papers being presented in Beijing. Highlights of the papers being presented include:

1. Rapid developments in SAR remote sensing data sources, such as the high resolution RADARSAT-2 from Canada, the COSMO-SkyMed SAR satellite from Italy (the highest SAR spatial resolution system in the world, providing detailed images of the earth under all weather conditions), and the German TerraSAR. The launch of these satellites has driven much research in image and data fusion methodologies. The recent Sichuan earthquake is a good example of how SAR data, along with other data sources, can be used to greatly assist relief efforts in difficult terrain and adverse weather conditions.
2. Fundamental physics to enable a better understanding of the geophysical parameters which influence the signals recorded by remote sensing sensors.

3. New image processing algorithms and analysis techniques which show that rapid progress has been made in image classification methods, going from traditional/conventional pixel-based techniques to advanced context-based and texture-based classification procedures. Other important presentations cover change detection methods. These range from global change studies using temporal data sets to local change detection algorithms, moving target detection (e.g. vehicles and security applications) to methods for monitoring changes in urban growth, forest decline and land use. Over the past four years, TC VII has organised more than 25 conferences, workshops and other activities around the globe. These events were attended by more than 4000 participants. This is a significant achievement, given the fact that TC VII was established only four years ago. The ISPRS Council is to be applauded for its decision to establish this Commission. Over the next four year period, TC VII will no doubt grow and advance the ISPRS mission to promote remote sensing methodological research around the world.

## **Technical Commission VIII, Remote Sensing Applications and Policies**

Ammatzia Peled, Commission VIII President (Israel)

Remote sensing is the acquisition of information about properties of objects or phenomena without physical contact. This science is related to detection of electromagnetic radiation in very narrow spectral bands, over a wide range of the electromagnetic spectrum. Photography was the main remote sensing technique for many years, where photogrammetry was the only known image processing and data collection tool. Today, Earth observation by data acquisition from space-borne satellites is a typical method of data collection. Looking ahead, we believe that around 10 to 15 satellites will be launched in as many years. Each new satellite will serve as a platform for a new scanning observation system; each new system will manifest

progressively better resolutions, both spectral and geometrical. In some cases, there is also an increase in the radiometric resolution. Once, remote sensing was done by capturing the moment on black and white or colour film. Today, it is common to collect data digitally by dividing the captured scene into a mesh of small equal-size picture elements known as pixels. The basic application of remote sensing is classification. This means the detection of different phenomena; the recognition of typical spectral, spatial and logical characteristics of different objects or groups of objects; and the identification of each feature according to a methodological, hierarchical, fuzzy or other logic in a time or frequency domain in dimensional or parametric

space. This requires high levels of image understanding, robotic vision and advanced mathematical algorithms. This must in turn be combined with a comprehensive understanding of the dimensional characteristics of the image's textural undulations and deviations. Nothing is done without deep knowledge about the characteristics of the phenomena. This knowledge may come from personal experience or the calibration processes performed by the data providers. It may also be gathered through advanced methods such as GIS-driven logic, where existing old spatial information data bases are used to automatically calibrate any new data. This allows us to update the very same vector data bases as automatically as possible. TC VIII working groups are focused on many remote sensing applications including:

impact analysis of human settlement; hazards and disasters; public health; air pollution; coastal zone management; polar, alpine and cryogenic research; land degradation; desertification and arid lands. TC VIII also deals with issues related to: management of tropical zones; policies, treaties and data access; water security; precision agriculture; sustainable forest; landscape management; geological mapping and geomorphology. The newly formalised Commission VIII will present at this Congress over 25 oral and posters sessions. Three theme and two additional special sessions will serve as platforms to introduce the state-of-the-art in remote sensing applications. We expect that the technical meetings and discussions will launch new and challenging ideas for our next term.

## YOUTH FORUM

The 3rd ISPRS Student Consortium Summer School, themed Acquisition, Processing and Representation of 3D Geospatial Information was held at Nanjing Normal University (26 June - 1 July). Jointly hosted by the Biannual Chinese Doctoral Students Forum in GIS, the two events gathered over 200 lecturers and participants from around the world.

The five-day program included theoretical lectures on 3D geospatial information, a Young Author session, and a technical visit to the Jiangsu provincial Bureau of Surveying and Mapping. The program was organized by the Key Laboratory of Virtual Geographical Environment at the School of Geographical Science.

Scientific learning aside, participants cited the reception party as a highlight of the program. Participants were greeted with a warm reception from students of the Nanjing Normal University and enjoyed cultural performances, folk songs and an evening of laughter.

The summer school has been a great success. Participants, organisers, lecturers and students had fruitful discussions on scientific research and the future of the profession. Many great friendships were built and research ideas were exchanged, giving prospects to fruitful international cooperation in the future.

## YOUTH FORUM AT THE XXI CONGRESS, 2008, BEIJING

The Youth Forum was a dedicated special Congress activity under the auspices of Technical Commission VI "Education and Outreach" and in particular the WG VI/5 "Promotion of the Profession to Students" and the related ISPRS Student Consortium (SC). It was organised for the second time during the ISPRS congress and aimed at providing a platform within the Congress for young scientists to present their scientific work, come in contact with advanced scientists and professionals, discuss organizational matters of the Student Consortium and exchange cultural experiences and promote mutual understanding and friendship.

The Opening Ceremony in the morning was followed by technical sessions, poster session, panel session, Student Consortium Assembly and a closing ceremony. In addition, a contribution from the Spatial Interest Group on Technology Transfer Caravan was given in so called White Elephant Session. The second day, excursion to the Great Wall was organized. The agenda of the youth forum was as follows:

July 5, 2008

- Opening Ceremony
- Technical Sessions
- White Elephant Session and Panel Session
- SC General Assembly
- Closing Ceremony

July 6, 2008

- Trip to Great Wall

### Opening Ceremony

The Youth Forum started with the Opening Ceremony, chaired by the TC VI President Prof. Kohei Cho. On the behalf of the Congress Director, Prof. John Trinder, 1st ISPRS Vice President welcomed the participants. Welcome addresses with some introductory words about the mission and activities of the Working Group VI/5 and the Student Consortium gave Mojca K. Fras (WG VI/5 chair) and Cemal Özgür Kivılcım (SC chair).

### Technical Sessions

The technical sessions consisted of four oral sessions (two in parallel) and one poster session. From 90 received extended abstract, 20 papers were accepted for oral presentation. Each technical session was moderated by a chair and a co-chair. Two Best Paper Awards and three Best Poster Paper Awards have been selected by the judging committee and granted at the closing ceremony of the Youth Forum.

### White Elephant Session

The aim of the White Elephants Session was to transfer knowledge and experience of the prominent professors (called White Elephants) to young generation. The session topics were: "**Ph.D. Thesis Writing**" by Prof. Armin Grun, ETH, Switzerland, "**Project Proposal Writing**" by Emeritus Prof. Gottfried Konecny, Hannover University, Germany, and "**How to prepare a good Oral Presentation**" by Emeritus Prof. Shunji Murai, University of Tokyo, Japan. These fundamental techniques and lessons are essential for young generation, particularly Ph. D Students.

The aim of the panel session that followed the White Elephant Session was to provide young students a face-to-face communication opportunity with acknowledged experts. The theme was "**Getting involved in the Society and entering upon a successful career for young professionals**". The panel was presided over by the Student Consortium representatives. The invited speakers were Prof. Shunji Muraj from University of Tokio, Japan, and Prof. Vincent Tao, Department of Earth and Space Science and Engineering, York University, Canada. They gave their vision to the topic, based from their personal experience. Students had many questions to them and in the discussion also Prof. Gottfried Konecny and Prof. Armin Grun gave valuable contributions.

The ISPRS Student Consortium Assembly, chaired by the WG VI/5 secretary Anka Lisek, was attended by over hundred participants who had interest in the ISPRS SC activities. On behalf of the ISPRS Council (2004-2008), who had provided exceptional support to the Student Consortium activities in the past period, Ian Dowman, the ISPRS President, Orhan Altan, the ISPRS Secretary General, and Manos Baltasvias, the ISPRS 2nd Vice President participated in the ISPRS SC Assembly.

A short introduction about the past ISPRS Student Consortium activities and experiences was given by Mojca K. Fras (WG VI/5 chair) and representatives of the ISPRS Student Consortium: Cemal Özgür Kivılcım, Krzysztof Stereńczak, Ahmet Şengul and Kyaw Sann Oo. This short introduction was meant to inform young researchers, young scientists as well as professors and representatives of the ISPRS who are interested in the ISPRS SC activities and attended the SC Assembly about past achievements and future prospects of the ISPRS Student Consortium.

One of the most important issues of the Student Consortium Assembly was to approve proposed ISPRS Student Consortium Statute, the contents of which had already been the topic of several reconciliation of viewpoints, provided by the Council members, TC VI and WG WI/5 officers and representatives of the Student Consortium. Due hard work in the past and agreement from the ISPRS Council, the statute of the ISPRS Student Consortium was approved by the ISPRS SC Assembly participants with some small changes. The ISPRS Student Consortium got with this turning point in organisation the new structure. According to the approved statute and based on past active work of some students, young researchers, the proposal for the first ISPRS Student Consortium board was introduced, which was also approved by common consent:

- Cemal Özgür Kivilcim, SC chair
- Krzysztof Stereńczak, SC Co-Chair
- Urša Kanjir, SC Secretary
- Gregor Stavbar, SC Publication
- Ahmet Şengül, SC webmaster

In addition to the ISPRS SC board members, the regional coordinators are proposed in the new statute, which are responsible for providing information to students and young researchers on the regional levels. With such an organizational structure and active SC members the future of the ISPRS SC is unquestioned bright, which was also one of the conclusions of the ISPRS president prof. Ian Dowman in his speech.

### **Closing Ceremony**

The closing ceremony was chaired by Prof. Emmanuel Baltasvias, 2nd Vice President ISPRS and Prof. Kohei Cho, TC VI President. Awards have been presented to the following winners:

**- YF Best Paper Awards** (with financial donation of 1,000 SFr. per paper, by Leica Geosystems AG, Switzerland):

- Hannes Puschel, Martin Sauerbier, Herni Elsenbeiss: A 3D Model of Castle Landenberg (CH) from Combined Photogrammetric Processing of Terrestrial and UAV-Based Images
- Wang Yusheng, Holger Weinacker, Barbara Koch, Krzysztof Stereńczak: LiDAR Point Cloud-based Fully

Automatic 3D Single Tree Modelling in Forest and Evaluations of the Procedure

### **- YF Best Poster Awards:**

- Natalia Borowiec: Building Extraction From ALS Data Based on Regular and Irregular Tessellations
- Sascha Klonus: Comparison of Pan-sharpening Algorithms for Combining Radar and Multi-spectral Data
- Gao Liang, Ban Yifang: Investigations of SAR Polarimetric Features on Land-Cover Classification

### **Trip to Great Wall**

As the activities of the ISPRS Student Consortium and relevant ISPRS Working Group emphasize also the social, intercultural dimension of the professional and scientific international cooperation, the second day of the Youth forum (July 6, 2008) was dedicated to this important issue of the Student Consortium. On Sunday, the excursion to the Great Wall was organized for students, young researchers as well as Professors. An unbelievable sunny morning greeted merry group of participants who enjoyed walking the Great Wall and admiring the beauty of the landscape in surroundings. The excursion was one more great opportunity to deepen the ties of friendship and feel old historical heart beat of China.

In the evening when our legs already felt the greatness of Great Wall most of students went to visit famous Beijing Market with dishes that exceed even the most daring imaginations.

The Congress as a whole was an opportunity for students to learn about ISPRS processes and the Youth Forum was a very intensive and focused event. The interest for the event and participation was very good. This was a valuable experience for active SC members, who may become leaders of our society in the future. The organization of the 3rd YF in the next Congress 2012 in Melbourne is thus highly expected.

Mojca K. Fras  
Anka Lisec  
Urša Kanjir

# **ISPRS**

2008

## **CONGRESS DAILY**





# **ISPRS**

2008

## **ISPRS AWARDS**

ISPRS Awards 2008

ISPRS Honorary Member

The Brock Gold Medal

The Otto von Gruber Award

The U.V. Helava Award

The Wang Zhizhuo Award

The Gino Cassinis Award

The Eduard Dolezal Award

The Schwidefsky Medal

The Willem Schermerhorn Award

The Samuel Gamble Award

President's Citations

ISPRS Award Winners 1956 - 2008

ISPRS Congress Beijing Awards

# ISPRS AWARDS 2008

## **ISPRS Honorary Member - John Trinder (Australia) and Armin Grün (Switzerland)**

**Professor John Trinder** has played a major role in the scientific and administrative activities of ISPRS over a period of more than 30 years. From as early as 1972, John became involved in ISPRS WG activities through Working Group VI/1 on Education and Research in the Oceania region and subsequently in 1976-1980 as a member of WGI/1. He became President of Commission I -Primary Data Acquisition from 1980-1984, Second Vice President from 1984-1988, Chair of the Financial Commission 1991-1992 and from 1992, he has taken leading roles in the administration of ISPRS as Treasurer, Secretary General, President and finally as First Vice President. He has served ISPRS as Commission President and in various Council positions for a total of 24 years.

During his period as President John Trinder led the revision of the structure of the Technical Commissions and their terms of reference, including introducing an eighth Commission, the first time the number of Commissions had been changed in ISPRS for 52 years. He also registered ISPRS as a not-for-profit corporation in Maryland USA, thus formalizing the legal status of the Society.

John Trinder has won a number of awards including the Grand Trophy of Talbert Abrams Award of American Society for Photogrammetry and Remote Sensing on two occasions, the James Kirkwood Curdie Prize awarded by the Institution of Surveyors, NSW Division (Australia), "For His Forward Looking Approach to the Future of Our Profession" in 1998 and the Eminent Persons Award from the Spatial Sciences Institute of Australia in 2004.

**Professor Armin Grün** has been recognised for his scientific work with the award of the Brock Gold Medal. He is awarded Honorary Membership for his scientific leadership over many years, contributing to the aims of ISPRS and for his work on ISPRS Working Groups, Commissions, Council and Committees over a period of 24 years. Armin served on a number of national and international scientific organisations. His major appointments were President of Commission V during 1988-1992, 2nd Vice President during 1992-1996, Chair of the Financial Committee during 1996-2000, and Chair of the International Scientific Advisory

Committee since 2000.

His world-wide reputation earned him a number of very prestigious awards, including the Otto-von-Gruber Award (ISPRS, 1980), the Talbert Abrams Grand Trophy (ASPRS, 1985 and 1996), the Fairchild Award (ASPRS, 1995) and the U.V. Helava Award (ISPRS, 2000). He is an Honorary Member, Japanese Society for Photogrammetry and Remote Sensing, a Corresponding Member, German Geodetic Commission (DGK), and an Honorary Professor of Wuhan University and of Yunnan Normal University in Kunming.

## **The Brock Gold Medal - Armin Grün (Switzerland)**

Professor Armin Grün has been Professor and Head of the Chair of Photogrammetry and Remote Sensing at the Institute of Geodesy and Photogrammetry, Federal Institute of Technology (ETH) in Zurich, Switzerland since 1984. He played a major role in the development of bundle adjustment based on a sophisticated self-calibration method in the 1970s. In the early 1980s, he developed a method for adaptive multiple image matching, which is implemented today in a number of commercial and research oriented photogrammetric data processing systems around the world. Since 1984, his group developed the Digital Image Photogrammetric Station (DIPS), which successfully integrated bundle adjustment, image matching methods, automatic point tracking and surface generation. His research in the 1990s, resulted in a software product for automated 3D city model generation, manipulation and visualisation called CC-Modeller.

Armin Grün has applied his expertise to documenting historical sites and thus making Photogrammetry better known and more popular. The most significant success certainly was the documentation and virtual reconstruction of the Great Buddha of Bamiyan in Afghanistan. This work has created world-wide media interest and coverage in the press and on television. Other examples include his work on the Nasca monuments in Peru and on the visualisation of Mt. Everest.

Armin Grün has served on a number of national and international scientific organisations. Within ISPRS he was president of Commission V during 1988-1992, 2nd Vice President during 1992-1996, Chair of the Financial Committee during 1996-2000, and has been Chair of

the International Scientific Advisory Committee since 2000.

#### **The Otto von Gruber Award - Matthias Butenuth (Germany)**

Dr. Matthias Butenuth is a very capable young scientist who obtained his PhD degree from Leibniz Universität Hannover, Germany, and is currently working at the Technical University Munich. He has developed a new method of active contour models for image segmentation called network snakes, which was firstly presented at the ISPRS Symposium of Commission III, Photogrammetric Computer Vision 2006 and published in the peer-reviewed journal "Photogrammetrie Fernerkundung Geoinformation", 2007. His research defines a new mathematical model, which incorporates topology to the concept of parametric active contours to enable the optimisation of networks or the boundaries of adjacent objects. Moreover, the introduced topology is exploited during the energy minimization process to enable superior results compared to traditional active contours.

In addition, the transferability of his new method of network snakes is an important contribution to innovative applications. The potential and applicability of the method is emphasized by two publications on different examples from the geosciences and the bio-medical sectors. Firstly, the delineation of field boundaries from remotely sensed imagery applying network snakes is presented jointly with colleagues in a comprehensive framework of data integration, published in the "ISPRS Journal of Photogrammetry & Remote Sensing", 2007. The second example delineates biological cells from microscopic cell imagery using network snakes presented jointly with a colleague in a peer-reviewed paper published in the "Bildverarbeitung für die Medizin 2007".

#### **The U.V. Helava Award - Martin Raubal (USA), Stephan Winter (Australia), Sven Tessmann (Germany), and Christian Gaisbauer (Germany) - paper entitled "Time geography for ad-hoc shared-ride trip planning in mobile geosensor networks".**

A five-member jury, comprising experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, evaluated 121 papers for the period 2004-2007. For each year of the four-year evaluation period, the Best Paper was selected and has been announced in the ISPRS Journal, ISPRS Highlights, the ISPRS page in GIM, and on the websites of ISPRS and Elsevier. The paper receiving

the U.V. Helava Award was selected from these four papers. It was published in Vol. 62 (2007), by Martin Raubal, Stephan Winter, Sven Tessmann, and Christian Gaisbauer entitled "Time geography for ad hoc shared-ride trip planning in mobile geosensor networks".

The jury stated that the paper provides an excellent discussion of a simulation model for shared-ride trip planning. It is very interesting to read and provides a good overview on the usage of agents for trip planning. The theory development is solid. The authors demonstrated their proposed system with a real street network, confirming their theoretical results.

#### **The Wang Zhizhuo Award - Christopher M. Gold (United Kingdom)**

**The Wang Zhizhuo Award** is sponsored by the Chinese Society of Geodesy, Photogrammetry and Cartography (CSGPC) and consists of a certificate and a monetary grant (SFr. 2,500). It will be granted at each quadrennial ISPRS Congress to a person who has made significant achievement or innovation in the spatial information sciences. The winner of the Award is Christopher M. Gold (United Kingdom). It will be awarded for the first time at the 21st ISPRS Congress in Beijing.

**Professor Christopher Gold** has been active for over 30 years in the development of spatial data structures, spatial models of perception and adjacency, Geo-informatics applications, and algorithms. He has approximately 200 publications and presentations in many fields – Geographic Information Science (GIS), Computer Science, Geology, Forestry and others and has collaborated with many researchers in Europe, North America and Asia. He is known in the Geo-informatics community for his work on spatial data structures, Voronoi diagrams, dynamic mapping and 3D modelling. He is known within the Computational Geometry community for his work on GIS applications. He has been active in Mathematics conferences, in Geology and Engineering workshops, and in Forestry. He has made presentations or organized workshops in Canada, USA, Europe and China and has received a variety of honours from Canadian and Asian associations.

From September 2004 to August 2007, Professor Gold held the post of "EU Marie Curie Chair in GIS" with the GIS Research Group at the University of Glamorgan, UK. These professorial appointments are a mechanism to highlight personal achievements of world-class researchers by offering them top-level appointments in Europe, to support career development and international recognition. His chair duties included organizing European and international conferences

and workshops on spatial data visualization, and he traveled extensively giving seminars and workshops. His 30 years of research and many publications have been devoted to the development of appropriate spatial models for various aspects of GIS, and his work in promoting Voronoi diagrams as a fundamental tool for spatial analysis has been widely recognised and used.

### **The Gino Cassinis Award - Zhilin Li (Hong Kong, China)**

Dr. Zhilin Li is Professor in the Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University. He has recently authored a book titled "Algorithmic Foundation of Multi-scale Spatial Representation", published in 2007 by CRC Press (Taylor & Francis Group). This book lays down an excellent mathematical/algorithmic foundation for multi-scale representation and digital map generalization.

Whilst previous classic textbooks appear not to provide a sufficient number of operations (or transformation models) for multi-scale representation, Li (2007) carried out a systematic study and has differentiated six groups with a total of 39 operations. These six groups are: individual point features; a set of point features; individual line features; a set of line features; individual area features; and a set of area features. After the appropriate operations have been identified, Li has made at least one generalization algorithm available for each of them. All algorithms for these operations together form a mathematical foundation for digital map generalization. The algorithms can be stored as subroutines and can be employed whenever there is a need. This provides a set of "graphical transformations" in some sense equivalent to a library of map projections. This is a significant contribution to the field, and worthy of acknowledgement.

### **The Eduard Dolezal Award - Nguyen Dinh Duong (Vietnam)**

Dr. Nguyen Dinh Duong is Director of the Department of Environmental Information Study and Analysis in the Institute of Geography, Vietnamese Academy of Science and Technology. Dr. Duong has been very active in developing remote sensing methodologies not only in Vietnam but also in Asian region.

He developed the WinASEAN (Windows based Advanced System for Environmental Analysis with Remote Sensing Data) under financial support of NASDA (currently JAXA) and technical assistance of RESTEC Japan. The software has been used from 1993 to 2000 for hands-on training

in the annual Regional Seminar: Earth Observation for Tropical Ecosystem Management organized by NASDA, RESTEC and UN ESCAP. The WinASAEN software is popular in remote sensing research and education in many countries in Asia. The WinASAEN has twice won the Silver Prize in CATCON organized by the ISPRS Commission VI in Vienna 1996 and Tokyo in 2006.

In 2005, Dr. Nguyen Dinh Duong was a key person in the successful organisation of the 26th Asian Conference on Remote Sensing (ACRS) held in Hanoi, Vietnam with more than 600 participants including many from overseas. He has been a local facilitator for Japan International Cooperation Agency (JICA) NET Distance Education on Remote Sensing and GIS since 2005. His contribution to this course for developing countries is highly appreciated by JICA.

Dr. Nguyen Dinh Duong is the leader of the National Project: Monitoring Oil Pollution in the Vietnamese and East Sea (2007-2010). He is the author of more than 100 papers about classification of land cover, natural resources management, and environmental monitoring published in national and international journals, ACRS proceedings and other publications.

### **The Schwedfsky Medal - Gerhard Kemper (Germany) and Klaus Szangolies (Germany)**

Dr. Gerhard Kemper is a very active contributor to the outreach activities of ISPRS. Since 2001 he has assisted in many organisational activities as well as making scientific contributions. He assisted ISPRS to participate in the Intergeo exhibition 2002 in Frankfurt and in 2003 in Hamburg. He provided significant assistance in the preparations for the ISPRS 20th Congress in Istanbul, 2004, helping with the layout of flyers and preparation of several short video-animations for attracting potential guests to the Congress. He also made a major contribution in preparing the video shown at the Opening Ceremony at the ISPRS Congress. After the Congress in Istanbul, 2004, Gerhard Kemper continued his work for ISPRS at the Intergeo exhibitions in Düsseldorf 2005, Munich 2006, and Leipzig 2007. He did much of the work on the production of the Video-DVD "ISPRS: Its Work and Organisation", in 2005, and the ISPRS Prospectus "Spatial solutions for the benefit of our society in a rapidly changing world" in 2006.

Professor Klaus Szangolies has worked as Editor-in-Chief for the German journal for photogrammetry, remote sensing and geoinformation (PFG) for more than 10 years. Within this period he has turned the journal

into the most important journal in the German-speaking world in the areas of photogrammetry, remote sensing and geoinformation. He has implemented a double blind review system and he has personally supervised each individual article both in terms of editorial issues and technical content. He has also established a network of well known reviewers and authors that forms a competent and interdisciplinary basis for the future. There is no doubt that the PFG would not be regarded as a high level technical publication without the engagement of Klaus Szangolies.

#### **The Willem Schermerhorn Award - Sisi Zlatanova (The Netherlands)**

Dr. Sisi Zlatanova has organized three international symposiums on the theme Geoinformation for Disaster Management (Gi4DM), as an ISPRS activity. These were held in Delft, Netherlands; Goa, India and Toronto, Canada during March 2005, September 2006, and May 2007 respectively. The papers presented during the first and third Gi4DM have already been published as books "Geoinformation for Disaster Management" and "Geomatics Solutions for Disaster Management" by Springer. The papers from the 2nd Gi4DM are being prepared for publication. The fourth Gi4DM has already been scheduled to be held in China during August 2008.

Sisi Zlatanova has also edited ISPRS Book Series No.6 "Geospatial Technology for Emergency Response". She had made important contributions to organizing ISPRS TC IV Symposium in 2006 and ISPRS 21st Congress in Beijing. Her activities related to integration of Geospatial data have significantly assisted the advancement of knowledge in this field and facilitated implementation of the Istanbul Congress resolutions.

Dr. Zlatanova is an Associate Professor at Delft University of Technology and holds a PhD degree in 3D GIS for urban modelling from Graz University of Technology.

#### **The Samuel Gamble Award - Wilber Ottichilo (Kenya), Jide Kufoniya (Nigeria) and Li Deren (China)**

Dr. Wilber Ottichilo is the Director General of the Regional Centre for Mapping of Resources for Development (RCMRD), based in Nairobi, Kenya. He has over 20 years of working experience in natural resources assessment and management, environmental conservation, land use mapping and planning, environmental impact assessment, proposal

development, monitoring and evaluation. RCMRD is a regional member of ISPRS and Dr. Ottichilo has been an active participant in ISPRS affairs in Africa and is a member of the AFREF Steering Committee, Chair of the Board of EIS Africa, a member of UNEDRA and of the UNECA GEO Committee of CODI.

Dr. Jide Kufoniya is Executive Director of the Regional Centre for Training in Aerospace Surveys (RECTAS), based in Ile-Ife, Nigeria since 2000. He has led the Centre to present courses in English and French and works closely with ITC in developing collaborative courses. He is Secretary General of the Africa Association of Remote Sensing of the Environment (AARSE), a member of the AFREF Steering Committee and is heavily involved in the UN Economic Commission for Africa. He is chair of ISPRS WG VII/7: Innovative Problem Solving Methodologies for Less Developed Countries and regional representative of the WG VI/3 - International Cooperation and Capacity Building. In Nigeria, he works within the Nigerian Institute of Surveyors as Chair of the Technical Committee and is Editor-in-Chief of the Journal of Surveying and Geoinformatics.

Professor Li Deren is an outstanding researcher, educator and activist in photogrammetry, remote sensing and geo-information technology. His work has emphasised the importance of international collaboration. He has made a significant contribution to the scientific development and industrialization of geoinformation technology in China and to the education of surveying and mapping in general. Internationally he has served for the ISPRS for eight years as the President of Commission III (Theory and Algorithms) and President of Commissions VI (Education). He was the President of Wuhan Technical University of Surveying and Mapping (WTUSM) and the President of Chinese Society of Geodesy, Photogrammetry and Cartography (CSGPC). He is currently the Chairman of the Academic Commission of the State Key Laboratory for Information Engineering in Surveying and Mapping and Remote Sensing (LIESMARS). He was also the Co-Chairman of CEOS (2003-2004). Dr. Li has paid much attention to international collaboration in the ISPRS fields. Since 1985, he has accumulatively invited a total of 50 experts to give lectures in Wuhan University (formerly WTUSM). The list includes presidents of ISPRS, presidents of IUGG, presidents of ICA, and many more. In respect to the international cooperation and the cooperation among universities, with assistance from Dr. Li Deren, Wuhan University has signed up cooperation agreements with more than ten

universities from the United States, United Kingdom, Germany, France, Switzerland, Holland, Japan and Thailand.

#### **President's Citations**

##### **Commission I - Karsten Jacobsen**

Karsten Jacobsen for his contribution as chairman of WG I/5 "Geometric modelling of optical spaceborne sensors and DEM generation", particularly for organising meetings and reporting on working group activities.

##### **Commission II - Monika Sester**

Monika Sester for the integrative role she has played between the spatial information sciences, photogrammetry and remote sensing in the four years of her term as chair of WG II/3 "Multiple representations of image and vector data".

##### **Commission III - Juha Hyypya and Volker Roderhorst**

Juha Hyypya for his active co-chairing of WG III/3 "Processing of point clouds from laser scanners and other sensors", including coordinating a test on the extraction of tree information, with EuroSDR, and the organisation of a very successful ISPRS workshop on Laser Scanning.

Volker Roderhorst for his work in WG III/2 in establishing an excellent benchmark data set for surface reconstruction with shape from X methods including the provision of data and initiating discussions on the methods and results.

##### **Commission IV - Christian Heipke**

Christian Heipke has contributed to the advancement of science as chair of WG IV/3, "Automated geo-spatial data acquisition and mapping". He has organised meetings and edited a theme issue of the ISPRS Journal on Digital Aerial Cameras.

##### **Commission V - Derek Lichti and Norbert Pfeiffer**

Derek Lichti and Norbert Pfeiffer as chairs of WG V/3 "Terrestrial Laserscanning" who have delivered an outstanding contribution to the work of ISPRS. Their working group has had a great impact on the discipline through their contribution to providing test data, organising meetings and contribution to international standards.

##### **Commission VI - Mojca Fras**

Mojca Fras has chaired WG VI/5 "Promotion of the profession to students", and successfully organized the Second Summer School in Ljubljana in 2007. She has also worked hard on activating the Student Consortium and contributed on the issue of Student Consortium Newsletter.

##### **Commission VII - Zhang Jixian**

Zhang Jixian has Chaired WG VII/6 "Remote Sensing Data Fusion". He organized two large international meetings in 2005 and 2007, with support from others such as IEEE.

##### **Commission VIII - Piero Boccoardo and Amelia Budge**

Piero Boccoardo has fulfilled his duties as the Chair of WG VIII/2 "Hazards, disasters and public health" in an admirable fashion showing dedication and initiative.

Amelia Budge who, as Co-chair of WG VIII/2, acted as a de-facto WG Chair for Public Health, worked in an energetic, diligent and creative way.

# ISPRS AWARD WINNERS 1956 - 2008

## **Brock Gold Medal (founded 1952)**

1956 L Bertele (Switzerland)  
1960 W. Schermerhorn (The Netherlands)  
1968 H. Schmidt (USA)  
1972 U.V. Helava (Canada)  
1976 F. Ackermann (Germany)  
1980 G. Hobrough (Canada)  
1984 F.J. Doyle (USA)  
1988 D. Brown (USA)  
1992 G. Brachet (France)  
1996 Y.S. Tjuflin (Russia)  
2000 J. Dangermond (USA)  
2004 Krishnaswamy Kasturirangan (India)  
2008 Armin Grün (Switzerland)

## **Otto von Gruber Award (founded 1960)**

1964 F. Ackermann (Germany)  
1968 E. Ebner (Germany)  
1972 J. Hohle (Germany)  
1976 F. Leberl (Austria)  
1980 A. Grun (Switzerland)  
1988 P. Curran (Great Britain)  
1992 C. Heipke (Germany)  
1996 H-G Maas (Switzerland)  
2000 H. Mayer (Germany)  
M.G. Vosselman (The Netherlands)  
2004 Stephan Heuel (Switzerland)  
2008 Matthias Butenuth (Germany)

## **Samuel Gamble Award (founded 1988)**

1988 O. Coker (Nigeria)  
B.A. Sikilo (Kenya)  
A.J. van der Weele (The Netherlands)  
1992 M. Carbone (France)  
G. Hildebrandt (Germany)  
S. Vibulsresth (Thailand)  
1996 P. Waldhausl (Austria)  
M.A. Figueroa (Chile)  
2000 A. Abiodun (Germany)  
B. Foster (Australia)  
2004 Ray Harris (UK)  
Haggai Nyapola (Kenya)  
Victor Savinykh (Russia)  
2008 Wilber Ottichilo (Kenya)  
Jide Kufoniyi (Nigeria)  
Li Deren (China)

## **Schwedfsky Medal (founded 1988)**

1988 K. Rinner (Austria)

G.C. Tewinkel (USA)  
1992 K. Atkinson (Great Britain)  
W. Hofman (Germany)  
1996 J.B. Case (USA)  
A.P. Cracknell (United Kingdom)  
2000 G. Ducher (France)  
L.R.A. Narayan (India)  
2004 Emmanuel Baltsavias (Switzerland)  
Zhilin Li (Hong Kong)  
2008 Gerhard Kemper (Germany)  
Klaus Szangolies (Germany)

## **Schermerhorn Award (founded 1988)**

1988 G. Guyot (France)  
1992 I. Dowman (United Kingdom)  
1996 D.M. McKeown (USA)  
2000 T. Woldai (The Netherlands)  
2004 Marguerite Madden (USA)  
2008 Sisi Zlatanova (The Netherlands)

## **The Gino Cassinis Award (founded 1997)**

2000 W. Forstner (Germany)  
2004 Sherman S. C. Wu (USA)  
2008 Zhilin Li (Hong Kong, China)

## **The U.V. Helava Award (founded in 1998)**

2000 Martina Sinning-Meister (Switzerland)  
Armin Grun (Switzerland)  
Hanbin Dan (Switzerland)  
2004 Changno Lee (South Korea)  
James S. Bethel (USA)  
2008 Martin Raubal (USA)  
Stephan Winter (Australia)  
Sven Tessmann (Germany)  
Christian Gaisbauer (Germany)

## **The President's Honorary Citations**

2000 K. Jacobsen (Germany)  
C. Heipke (Germany)  
B. Csatho (USA)  
E. Baltsavias (Switzerland)  
S. El-Hakim (Canada)  
T.M. Sausen (Brazil)  
A. Rosenqvist (Italy)  
2004 Karsten Jacobsen (Germany)  
Christian Heipke (Germany)  
Helmut Mayer (Germany)  
Monika Sester (Germany)  
Gabriele Fangi (Italy)

Manos Baltasvias (Switzerland)  
 Karl Staenz (Canada)  
 2008 Karsten Jacobsen (Germany)  
 Monika Sester (Germany)  
 Juha Hyyppa (Finland)  
 Volker Roderhorst (Germany)  
 Christian Heipke (Germany)  
 Derek Lichti (Australia)  
 Norbert Pfeiffer (Austria)  
 Mojca Fras (Slovenia)  
 Zhang Jixian (China)  
 Piero Boccardo (Italy)  
 Amelia Budge (USA)

**Honorable Mentions for Distinguished Members  
 of Technical Commissions**

1996 P. Patias (Greece)  
 J. Labonte (Canada)  
 I. Colomina (Spain)  
 R. Tateishi (Japan)  
 M. Shortis (Australia)  
 K. Cho (Japan)  
 G. Guyot (France)

**CATCON Awards**

1996 Gold J. Hohle (Denmark)  
 Silver N.D. Duong (Vietnam)  
 Bronze G. Jianya (China)  
 RADARSAT International (Canada)  
 2000 Gold P. Grussenmeyer (France)  
 P. Drap (France)  
 Silver Qiming Zhou (China)  
 J. Hohle (Denmark)  
 2004 Gold Jonathan Haig (Germany)  
 Silver Matthias Fluehler (Switzerland)  
 Bronze Shashkant Sharma (India)  
 2008 Gold Joel Fisler (Switzerland)  
 Susanne Bleisch (Switzerland)  
 Robert Kaden (Germany)  
 Silver Bharat Lohani (India)  
 Rakesh Kumar Mishra (India)  
 Susham Biswas (India)  
 Bronze Ben Maathuis (The Netherlands)

**Young Authors Awards**

1996 X. Yuan (China)  
 N. El-Sheimy (Canada)  
 W. Cho (USA)  
 R.E. Fayek (Canada)  
 J.A. Shufelt (USA)  
 C. Pohl (The Netherlands)  
 Y. Zhou (USA)

G. Danuser (Switzerland)  
 C. Tao (Canada)  
 X. Yang (USA)  
 2000 B. Ameri (Germany)  
 A. Brunn (Germany)  
 M. Honikel (Switzerland)  
 J. Li (Canada)  
 S. Priya (Japan)  
 J. Schiewe (Germany)  
 G. Zalmanson (USA)  
 2004 Devrim Akca (Switzerland)  
 P.H. Hsu (China Taipei)  
 Axel Wendt (Germany)  
 Tinghua Ai (China)  
 Andrea Forberg (Germany)  
 Camillo Ressler (Austria)  
 Derek D. Lichti (Australia)  
 Michele Crosetto (Spain)  
 2008 Marta Blazquez (Spain)  
 Margarita Kokla (Greece)  
 Min DENG (Hong Kong, China)  
 Sander Oude Elberink (The Netherlands)  
 Pengfeng Xiao (China)  
 David Belton (Australia)  
 Francesco Dell'Endice (Switzerland)  
 Long-qi ZHANG (China)  
 Yuan Li (China)  
 Yunhang CHEN (USA)

**Eduard Dolezal Awards**

1996 O. Ayeni (Nigeria)  
 F. Batuk (Turkey)  
 A. Bujakiewicz (Poland)  
 G. Coskun (Turkey)  
 M. Dalati (Syria)  
 M. Ebrahim (Egypt)  
 J. Gong (China)  
 S. Jayatilaka (Sri Lanka)  
 R. Kaczynski (Poland)  
 A. Kirsanov (Russia)  
 M. Koudmani (Syria)  
 S. Mayabu (Zaire)  
 L. Narayan (India)  
 N. Ononiwu (Nigeria)  
 C. Robbi (Brazil)  
 J. Ru (China)  
 M. Saandar (Mongolia)  
 N. Shahriari (Iran)  
 P. Sharma (India)  
 B. Shrestha (Nepal)  
 V. Sokolova (Russia)  
 K. Sukup (Czech Rep.)

M. Talbi (Tunisia)  
A. Tommaselli (Brazil)  
V. Vainauskas (Lithuania)  
R. Zhang (China)  
Ethiopian Mapping Authority, Addis  
Ababa (Ethiopia)  
Institut Agronomique et Veterinaire  
Hassan II, Rabat, (Morocco)  
Romanian Society for Photogrammetry and

Remote Sensing, Bucharest (Romania)  
University of Mining & Metallurgy, Krakow  
(Poland)  
2004 Jiang Jie (China)  
2008 Nguyen Dinh Duong (Vietnam)

**The Wang Zhizhuo Award (founded in 2008)**

2008 Christopher Gold (UK)

# ISPRS CONGRESS BEIJING AWARDS

## 1. Young Authors Awards

Name of Author	Country/Region	Mail address	Topic of paper
Marta Blazquez	Spain	Institute of Geomatics Generalitat de Catalunya & Universitat Politècnica de Catalunya Parc Mediterrani de la Tecnologia Av. del Canal Olímpic s/n, Castelldefels	A New Approach to Spatio-Temporal Calibration of Multi-Sensor Systems
Margarita Kokla	Greece	School of Rural and Surveying Engineering National Technical University of Athens 15780 Zografos Campus, Athens	GeoNLP: A Tool for the Extraction of Semantic Information from Definitions
Min Deng	Hong Kong, China	Department of Land Surveying and Geo-informatics The Hong Kong Polytechnic University Kowloon	A Hierarchical Representation of Topological Relations between a Line and an Area
Sander Oude Elberink	The Netherlands	International Institute for Geo-information Science and Earth Observation (ITC) Hengelosestraat 99, P.O. Box 6, 7500 AA Enschede	Problems in automated building reconstruction based on dense airborne laser scanning data
Pengfeng Xiao	China	Department of Geographical Information Science Nanjing University, Nanjing 210093	Multispectral IKONOS image segmentation based on vector field model
David Belton	Australia	Cooperative Research Centre for Spatial Information (CRC-SI) The Institute for Geoscience Research (TIGeR) Department of Spatial Sciences, Curtin University of Technology, Perth WA	Improving and Extending the Information on Principal Component Analysis for Local Neighbourhoods in 3D Point Clouds
Francesco Dell'Endice	Switzerland	Remote Sensing Laboratories Department of Geography University of Zurich Winterthurerstrasse, 190-8057 Zurich	Improving the performance of hyperspectral pushbroom imaging
Long-qi Zhang	China	Institute of Remote Sensing Applications Chinese Academy of Sciences P.O. BOX 9718, Beijing 100101	Geospatial Informatics Techniques Based Reproductive Health Surveillance System
Yuan Li	China	School of Architecture and Civil Engineering Xiamen University, 361005	Lane-oriented 3D Dynamic Segmentation Method
Yunhang Chen-Sherman Wu Award	USA	Mapping and GIS Laboratory Dept. of Civil and Env. Eng. & Geodetic Science The Ohio State University 470 Hitchcock Hall, 2070 Neil Avenue, Columbus, OH 43210-1275	Bundle Adjustment of Mars HiRISE Stereo Images Based on Rigorous Sensor Model

## 2. The CATCON Award

- Gold Prize to Joel Fisler, Susanne Bleisch, Robert Kaden
- Silver Prize to Bharat Lohani, Rakesh Kumar Mishra, Susham Biswas
- Bronze Prize to Ben Maathuis

## 3. Best Poster Awards

- W. Jung, J.S. Bethel: Stochastic Modeling and Triangulation for an Airborne Three Line Scanner
- Liang-Chien Chen, Tee-Ann Teo, Chao-Yuan Lo: Elevation-Controlled Block Adjustment for Weakly Convergent Satellite Images

- Hainan Chen, Volker Walter, Dieter Fritsch: Quality Inspection and Quality Improvement by Map Fusion
- Oh Sojung, Impyeong Lee, Juseok Hong: Generalization of Fundamental City Spatial Model for the Data Generation Satisfied with User's Requirements
- Tee Ann Teo: Parametric Reconstruction for Complex Building from Lidar and Vector Maps Using a Divide-and-Conquer Strategy
- Changchang Wu, Friedrich Fraundorfer, Jan-Michael Frahm, Jack Snoeyink, Marc Pollefeys: Image Localization in Satellite Imagery with Feature-Based Indexing
- T. Fuse, T. Wayama, E. Shimizu: A Study on Automatic Image Arrangement in Urban Area - Toward the New

#### Concept of Urban Visualization

- A. Ajmar, F. Perez, O. Terzo: World Food Program SDI implementation in support of emergency management
- Tsutomu Kakiuchi, Hirofumi Chikatsu: Robust Extraction of Ancient burial mounds in brushland from Laser Scanning Data
- Sylvie Soudarissanane, Roderik Lindenbergh, Ben Gorte: Reducing the Error in Terrestrial Laser Scanning by Automatic Optimization of the Measurement Set-up
- E. McGovern, A. Martin, R. Moore: The Production of High-Quality Video for E-Learning
- J.L. Perez-Garcia, J. Delgado, J. Cardenal, M.A. Ureña: On The Use of Low-Cost Synthetic Models for Educational and Research Purposes in Digital Photogrammetry
- L.Ochirkhuyag, R.Tsolmon: Monitoring the Source of Trans-National Dust Storms in North East Asia

- S. Abdikan, F. Balik Sanli, F. Bektas Balcik, C. Goksel: Fusion of SAR Images (PALSAR and RADARSAT-1) with Multispectral SPOT image: A Comparative Analysis of Resulting Images

- Afzal Ahmed, Masahiko Nagai, Chen Tianen, Ryosuke SHIBASAKI: UAV Based Monitoring System and Object Detection Technique Development for a Disaster Area

- Jaime Hernández Palma: Automatic Single-Tree Crown Identification and Delineation on Aerial Images Using Morphological Filtering

#### 4. Youth Forum Best Papers Awards

- Yunsheng Wang, Holger Weinacker, Barbara Koch (Germany), Krzysztof Sterenczak (Poland)

Hannes Püschel, Martin Sauerbier, Henri Eisenbeiss (Switzerland)

#### 5. ESF Awards for young authors

Abstract-ID	Name of Author	Topic of paper	e-mail	Mail address
2007112002957512	Hai Huang	Terrestrial Image Based 3D Extraction of Urban Unfoliated Trees of Different Branching Types	hai.huang@unibw.de	Bundeswehr University Munich, Werner-Heisenberg-Weg 39, 85577 Neubiberg, Germany
2007110602724908	Pauline Miller	A robust surface matching technique for DEM integration in the context of coastal geohazard monitoring	p.e.miller@ncl.ac.uk	School of Civil Engineering & Geosciences, Cassie Building, Newcastle University, Claremont Road, Newcastle upon Tyne. NE1 7RU, United Kingdom
2007102001216400	Margarita Rova	Multistation Bundle Adjustment with a Machine Vision Parallel Camera System-An Alternative to the Perspective Case for the Measurement of Small Objects	mrova@ge.ucl.ac.uk	UCL, Chadwick Building, Gower street, London WC1E 6BT, UK
2007102901610919	Thomas Hanusch	A new texture mapping algorithm for photorealistic reconstruction of 3D objects	hanuscht@geod.baug.ethz.ch	Institute of Geodesy and Photogrammetry, Swiss Federal Institute of Technology, Wolfgang-Pauli-Strasse 15, 8093 Zurich, Switzerland
2007102001324421	Zhenhong Li	Reduction of atmospheric water vapour effects on ENVISAT ASAR interferograms using MERIS near IR measurements	Zhenhong.Li@ges.gla.ac.uk	Department of Geographical and Earth Sciences, University of Glasgow, East Quadrangle, University Avenue, Glasgow G12 8QQ, United Kingdom
2007110502048902	Vladimir Budak	Atmosphere's optical micro parameters influence upon polar-phase curves of scattered radiation	BudakVP@mpei.ru	Moscow Power-Engineering Institute (TU), Krasnokazarmennaya, 14, Moscow 111250, Russia

# **ISPRS**

2008

**THE ISPRS FOUNDATION**

# THE ISPRS FOUNDATION

## What is the ISPRS Foundation

The ISPRS Foundation is an independently registered entity that has been established SOLELY for **providing financial assistance** to advance the benevolent purposes of ISPRS, an international, non-profit, non-governmental organization (NGO) composed of 176 societies and organizations from more than 120 countries. The Foundation is designed to foster linked relationships with other foundations and trusts established in the ISPRS Member countries and regions to enable international sharing and administration for the common good of the sciences and disciplines represented by the ISPRS.



## Primary Goals

The ISPRS Foundation is intended to improve the ability of ISPRS to satisfy its aims and objectives, by administering a broadly-based international program of fund raising to provide grants to qualified individuals and organizations, who are pursuing and/or applying knowledge for advancing the sciences and technologies associated with the disciplines embodied by ISPRS. The Foundation will raise, invest and grant funds on an unrestricted and restricted basis for this purpose. It will contribute significantly to the efforts of ISPRS in international cooperation and technology transfer.

Specific charitable goals of The Foundation will include but not be limited to the following:

1. Awards - to provide international recognition for young authors, research, publications, training/education, and significant achievements in 'the photogrammetry, remote sensing and spatial information sciences' (P&RS&SIS).
2. Travel Grants - to enable young authors, distinguished speakers, and officially designated national Delegates, especially from developing countries, to participate in ISPRS sponsored events and in forums promoting international cooperation, advancements and benefits of the P&RS&SIS.
3. Research Initiatives - to provide support for

advancing the capabilities and applications of the ISPRS sciences, technologies and disciplines to the benefit of the international community or a multi-national region.

4. Scholarships and Fellowships - to support professional development in the P&RS&SIS sciences and technologies.
5. Internships and Exchange Programs - to foster on-the-job training and education of end users, private companies, governments and institutions of higher education.
6. Distance Learning - to promote and facilitate development and open dissemination of distance learning modules in the ISPRS sciences, technologies and disciplines, especially to developing countries.
7. Awareness Education - to stimulate youth (K-12) and grass roots interest and participation in the P&RS&SIS sciences and technologies in order to increase public awareness and use of applications, and to help meet the growing worldwide need for trained and educated practitioners.
8. Tools and Literature - to solicit, assemble, translate if needed, underwrite subscriptions, and distribute textbooks, technical publications, and basic tools and equipment needed to upgrade the capabilities of those developing country institutions and libraries that include the ISPRS disciplines.
9. Sponsorship of International Workshops - to provide funding to support or co-support the education, training and technical program aspects of international scientific workshops sponsored by the ISPRS with the United Nations and other international organizations.
10. Standards - to support international projects devoted to the development and dissemination of standards relevant to the ISPRS disciplines, sciences and technologies.
11. Preservation of Archives - to provide support to ensure the preservation of the official scientific, technical and administrative records of the ISPRS.
12. Grants - to do any and all lawful acts which may be necessary, useful, suitable or proper for the furtherance or accomplishment of the foregoing purposes.

**How does it work**

The ISPRS Foundation, Inc. is managed by a 'Board of Trustees' which responds to ISPRS grant needs that are identified by the ISPRS Council. ISPRS Council will annually assess needs, solicit proposals for grants from The Foundation and then collaborate with the Board to approve worthy candidates. Multinational committees (no more than two committee members may be of the same nationality) will support the Trustees in evaluating the requests.

The Board of Trustees are responsible for fund raising, investment, management and approval of grants from Foundation funds. Trustees do not receive any salary or other compensation for their services.

**Who can contribute**

Contributions are invited from individuals, businesses and organizations around the world who want to support Foundation goals and programs.

# **ISPRS**

2008

## **EXHIBITION**

Exhibitors' Showcases

Exhibitors

## EXHIBITORS' SHOWCASES

Exhibitor's Showcase Sessions were arranged for the exhibitors to present their updated technologies and new products related to geographic information systems, mapping, photogrammetry, remote sensing, data processing, surveying, imaging, imaging processing, machine vision and computer graphics, and in relevant application fields. The meeting room for these sessions was set up on the same floor of the Exhibition's main hall. The topics and introductions of the Exhibitor's showcase Sessions were published in the final program.

Time Slot	July 7	July 8	July 9	July 10
09:00 – 10:00	DIMAC Systems		ERDAS	Vexcel Imaging, GmbH/ Microsoft Corp.
10:30 – 11:30	Spot Image	Supresoft Inc.	FARO	ERDAS
13:00 – 14:00	ERDAS	Infoterra Group	PCI Geomatics	
14:30 – 15:30	Heilongjiang Bureau of Surveying and Mapping			
16:00 – 17:00	Wuda Geoinformatics Co., Ltd.			

# EXHIBITORS

## **Aerial Photogrammetry & Remote Sensing Bureau of China Coal (ARSC) (Booth Numbers: 249-254)**

No. 3 Jianxi Road, Xi'an, Shaanxi Province, 710054, China  
Tel: +86-29-87855451  
Fax: +86-29-87856141  
E-mail: arscimd@arscmh.com  
Url: www.arscmh.com

## **Aeromatex Inc. (Booth Number: 309)**

B 9F Haifu International Plaza, No. 22 Che Gong Zhuang Xi Lu, Haidian District, Beijing, 100044, China  
Tel: +86-10-68786161  
Fax: +86-10-68786028  
E-mail: cuiyang@aeromatex.com  
Url: www.aeromatex.com

## **Aerometrex Gruop (Booth Number: 340)**

No. 231 Xing Fu Lu Dong Xiang, Urumchi, 830001, China  
Tel: +86-13609962118  
Fax: +86-991-2621678  
E-mail: yue.zhang@aerometrex.com.au  
Url: www.aerometrexgroup.com

## **Agfa+AVS+M.A.P (Booth Numbers: 258, 259)**

Flat C, 6/F, Capital Trade Centre, 62 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong, China  
Tel: +86-13381088023  
Url: www.as-vision.net

## **American Society for Photogrammetry and Remote Sensing (ASPRS) (Booth Number: 262)**

5410 Grosvenor Lane, Suite 210, Bethesda, MD 20814, USA  
Tel: +1-301-493-0190 ext. 103  
Fax: +1-301-493-0208  
E-mail: kimt@asprs.org  
Url: www.asprs.org

## **Applanix Corporation (A Trimble Co.) (Booth Numbers: 201-204, 216-220)**

85 Leek Crescent, Richmond Hill, Ontario, L4B 3B3, Canada  
Tel: +1-905-709-4600  
E-mail: info@applanix.com  
Url: www.applanix.com

## **ASIA AIR SURVEY CO., LTD (Booth Numbers: 207, 208)**

1-2-2 Manpukuji Asao-ku Kawasaki-shi Kanagawa, 215-0004, Japan  
Tel: +81-44-9676305  
Fax: +81-44-9548165  
E-mail: mg.hatakey@ajiko.co.jp  
Url: www.ajiko.co.jp

## **Beijing Earth Observation Inc. (Booth Numbers: 212, 213)**

A 10F B & C, Zhong Gang International Plaza, No. 8 Haidian Road, Haidian District, Beijing, 100080, China  
Tel: +86-10-82800186  
Fax: +86-10-82800182  
E-mail: chenyan@bjeo.com.cn  
Url: www.bjeo.com.cn

## **Beijing East Map Information Technology Inc. (Booth Numbers: 207, 208)**

No. 19 Keyuan Road, Daxing Technology Development District, Beijing, 102600, China  
Tel: +86-10-61271907  
Fax: +86-10-61271905  
E-mail: sunjing@bj-eastmap.com

## **Beijing Flying Man Aviation Sport Equipment Co., Ltd (Booth Number: 533)**

A2011, Vatone New World Plaza, No. 2 of Fuchengmen Wai Road, Xicheng District, Beijing 100037, China  
Tel: +86-10-68055114/13701397075  
Fax: +86-10-68052542  
E-mail: info@flying-man.com  
Url: www.flying-man.com

## **BEIJING GEO-VISION TECH. CO., LTD (Booth Number: 275)**

No. 19 Building, No. 11 Block, No. 188 Western Road, South 4th Ring Road, Beijing, 100070, China  
Tel: +86-10-59795858  
Fax: +86-10-59795858-718  
E-mail: sales@jx4.com  
Url: www.jx4.com

**Beijing Geoway Information Technology  
Incorporation (Booth Number: 526)**

16F Wanshang Plaza, No. 22 Shi Jing Shan Road,  
Beijing, 100043, China  
Tel: +86-10-68638580  
Fax: +86-10-68638766  
E-mail: office@geoway.com.cn  
Url: www.geoway.com.cn

**Beijing Oriental TITAN Technology Co., LTD  
(Booth Numbers: 515, 516)**

Room 1107, High-tech Building No. 229, North Fourth  
Ring Road, Haidian District, Beijing, 100083, China  
Tel: +86-10-82884081  
Fax: +86-10-82884073  
E-mail: market@otitan.com  
Url: www.otitan.com

**China Siwei Surveying and Mapping Technology  
Corporation (Booth Numbers: 290-294)**

No. 1 Zizhuyuan Baisheng Village, Haidian District,  
Beijing, 100048, China  
Tel: +86-10-68424083  
Fax: +86-10-68424075  
E-mail: YRH5508@163.com

**Cglobe Info Tech. (Beijing) Co., Ltd  
(Booth Number: 310)**

B 10F Beijing Chuang Ye Plaza, No. 11 An Xiang Bei Li  
Jia, Chaoyang District, Beijing, 100101, China  
Tel: +86-10-64845922  
Fax: +86-10-64845989  
E-mail: baiwenxia@terra-it.cn  
Url: www.cglobe.cn; www.terra-it.cn

**CATIC Siwei Co., Ltd (Booth Numbers: 290-294)**

Room 1405/1410, Ganjiakou Building, No. 21 Sanlihe  
Road, Haidian District, Beijing, 100037, China  
Tel: +86-13901259543  
E-mail: caotianjing@caticsiwei.com

**China TopRS Technology Co., Ltd  
(Booth Number: 228)**

No. 16 Beitaping Road, Haidian District, Beijing,  
100039, China  
Tel: +86-10-88217822  
Fax: +86-10-68160588  
E-mail: yuxianliu@126.com  
Url: www.chinatoprs.com

**Chinese Academy of Surveying and Mapping  
(Booth Number: 120)**

16 Beitaping Road, Beijing, 100039, China  
Tel: +86-10-68187752  
Fax: +86-10-68218654  
E-mail: lincasm@casm.ac.cn  
Url: www.casm.ac.cn

**Chinese Academy of Surveying and Mapping  
(Booth Numbers: 115, 116)**

16 Beitaping Road, Beijing, 100039, China  
Tel: +86-10-68237459  
Fax: +86-10-68218654  
E-mail: office@casm.ac.cn  
Url: www.casm.ac.cn

**Clark Labs, Clark University (Booth Number: 241)**

950 Main Street, Worcester, MA 01610, USA  
Tel: +1-508-793-7526  
Fax: +1-508-793-8842  
E-mail: clarklabs@clarku.edu

**DAT/EM Systems International  
(Booth Numbers: 236, 237)**

8240 Sandlewood Place, Suite 101, Anchorage, Alaska,  
99507, USA  
Tel: +1-907-5223681  
Fax: +1-907-5223688  
E-mail: jyates@datem.com  
Url: www.datem.com

**DEPHOS (Booth Number: 339)**

ul. Lublanska 34, Krakow, 30-009, Poland  
Tel: +48502023042  
Fax: +48124118558  
E-mail: mprochaska@dephos.com  
Url: www.dephos.com

**DigitalGlobe Inc. (Booth Numbers: 117, 118)**

1601 Dry Creek Drive, Suite 260, Longmont, CO 80503,  
Singapore  
Tel: +65-6255-4829  
Fax: +65-6255-4859  
E-mail: dyong@digitalglobe.com  
Url: www.digitalglobe.com

**DIMAC SYSTEMS (Booth Numbers: 296, 297)**

95 Grand Rue, L-3313 Bergem, LUXEMBURG  
Tel: +352-2651-2166  
Fax: +352-2651-2165  
E-mail: info@dimacsystems.com  
Url: www.dimacsystems.com

**Elsevier B.V. (Booth Number: 348)**

Radarweg 29, Amsterdam, 1043XN, The Netherlands  
Tel: +31-20-4852291  
Fax: +31-20-4853280  
E-mail: m.gutschner@elsevier.com  
Url: www.elsevier.com

**Eastdawn Corporation****(Booth Numbers: 221, 222, 247, 248)**

10th Floor, Sinosteel Plaza, No. 8 Haidian Street,  
Haidian District, Beijing, 100080, China  
Tel: +86-10-62686799  
Fax: +86-10-62686790  
E-mail: overseas@east-dawn.com.cn  
Url: www.eastdawn.com.cn/english

**ERDAS, Inc. (Booth Numbers: 103-108)**

Worldwide Headquarters, 5051 Peachtree Corners  
Circle, Norcross, Atlanta, GA 30092-2500, USA  
Tel: +1-770-7763400  
Fax: +1-770-7763500  
E-mail: joanne.smith@erdas.com  
Url: www.erdas.com

**ERSDAC (Earth Remote Sensing Data Analysis Center) (Booth Number: 331)**

Forefront Tower 14F, 3-12-1 Kachidoki, Chuo-ku, Tokyo, Japan  
Tel: +81-3-35339380  
Fax: +81-3-35339383  
Url: www.ersdac.or.jp/eng/index

**ESRI (Booth Numbers: 129-131)**

380 New York St. Redlands, CA 92373, USA  
Tel: +1-909-7932853  
Fax: +1-909-3073072  
E-mail: mcygan@esri.com  
Url: www.esri.com

**ESRI CANADA (Booth Number: 119)**

12 Concorde Place-Suite 900, Toronto, Ontario, M3C  
3R8, Canada  
Tel: +1-416-3866475  
Fax: +1-416-4461639  
E-mail: psalah@esricanada.com  
Url: www.esricanada.com

**EuroSDR (Booth Number: 278)**

Faculty of Built Environment, Dublin Institute of  
Technology, Bolton Street, Dublin 1, Ireland  
Tel: +353-1-4023933  
Fax: +353-1-4023999  
E-mail: admin@eurosdri.net  
Url: www.eurosdri.net

**FARO (Shanghai) Co., Ltd (Booth Number: 525)**

1F, Building 29, No. 396 Guilin Road, Shanghai, 200233, China  
Tel: +86-21-64948660  
Fax: +86-21-64948670  
E-mail: chinainfo@faro.com  
Url: www.faro.com

**GEOEYE (Booth Numbers: 212, 213)**

12076 Grand Street Thornton, Colorado, 80241, USA  
Tel: +1-303-2542010  
Fax: +1-303-2542215  
E-mail: Steplewska.hanna@geoeye.com  
Url: www.GEOEYE.com

**GEOKOSMOS (Co-exhibitor: Terralmaging bv) (Booth Numbers: 506, 507)**

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# **ISPRS**

2008

## **TECHNICAL VISITS**

## TECHNICAL VISITS

No.	Venue	Date
1	National Geomatics Center of China (NGCC)	morning 7 July 2008 morning 9 July 2008
2	Chinese Academy of Surveying and Mapping (CASM)	afternoon 7 July 2008 afternoon 9 July 2008
3	Institute of Remote Sensing Applications (IRSA) & Institute of Geographic Sciences and Natural Resources Research (IGSNRR)	morning 8 July 2008 afternoon 10 July 2008
4	NavInfo Co., Ltd. (NavInfo)	afternoon 7 July 2008 morning 10 July 2008
5	National Satellite Meteorological Center (NSMC)	morning 7 July 2008 afternoon 10 July 2008
6	Twenty First Century Aerospace Technology Co., Ltd. (TFCAT)	afternoon 7 July 2008 afternoon 10 July 2008
7	Beijing Eastdawn Information Technology Inc. (EDIT)	morning 8 July 2008 afternoon 8 July 2008

# **ISPRS**

2008

## **SOCIAL PROGRAMME**

Congress Social Programme

Optional Tours

## CONGRESS SOCIAL PROGRAMME

Event	Venue	Date & Time
Welcome Reception	Yayuncun Central Garden	3 July 2008 19:00-21:00
Exhibitors' Reception	Beijing International Convention Center	7 July 2008 18:30-20:00
Gala Dinner	Jiuhua Spa & Resort	10 July 2008 19:00-22:00
Peking Opera	Li Yuan Theater	4 July 2008 & 8 July 2008 19:30-20:40
Acrobatic Show	Tian Di Theater	6 July 2008 & 9 July 2008 19:15-20:15
Beijing Night Show	Beijing Night Show Theater	5 July 2008 & 9 July 2008 19:00-21:20
Laoshe Tea House	Laoshe Tea House	5 July 2008 & 8 July 2008 19:50-21:20
Accompanying Persons' Excursion	Summer Palace	4 July 2008 & 9 July 2008 13:30-17:00

## OPTIONAL TOURS

### Tours in and around Beijing

CT-1: The Great Wall- Ming Tombs

Date: Friday, 4 July 2008; Sunday, 6 July 2008

CT-2: Forbidden City - Temple of Heaven

Date: Sunday, 6 July 2008; Wednesday, 9 July 2008

CT-3: Summer Palace - Yonghe Lamasery

Date: Saturday, 5 July 2008; Tuesday, 8 July 2008

CT-4: Hutong (Traditional Alleys) Tour on Rickshaw

Date: Friday, 4 July 2008 (afternoon); Monday, 7 July 2008 (morning)

CT-5: Forbidden City-Tian'anmen Square

Date: Saturday, 5 July 2008 (afternoon); Tuesday, 8 July 2008 (morning)

CT-6: Beijing Roast Duck and Peking Opera

Date: Wednesday, 9 July 2008 (night)

CT-7: Silk Market

Date: Saturday, 5 July 2008 (morning); Thursday, 10 July 2008 (afternoon)

CT-8: Panjiayuan Folk Culture Market

Date: Friday, 4 July 2008 (afternoon); Friday, 11 July 2008 (morning)

CT-9: Wangfujing Market Street

Date: Sunday, 6 July 2008 (afternoon); Thursday, 10 July 2008 (morning)

CT-10: Liulichang Culture Street

Date: Tuesday, 8 July 2008 (afternoon)

CT-11: Hongqiao Market

Date: Monday, 7 July 2008 (afternoon)

CT-12: Peking Man Cave

Date: Wednesday, 9 July 2008 (morning)

### Pre, Mid and Post Congress Tours

PT-1: Beijing – Xi'an – Beijing (2 days, 1 night)

Date: 1-2 July 2008; 5-6 July 2008; 12-13 July 2008

PT-2: Beijing – Chengde – Beijing (2 days, 1 night)

Date: 1-2 July 2008; 12-13 July 2008

PT-4: Beijing – Xi'an – Shanghai (5 days, 4 nights)

Date: 12-16 July 2008

PT-5: Beijing – Xi'an – Guilin – Guangzhou (6 days, 5 nights)

Date: 12-17 July 2008

# **ISPRS**

2008

## **CLOSING CEREMONY**

Programme of the Closing Ceremony

Report of Congress Director Chen Jun

Address of Outgoing President Ian Dowman

Address of Incoming President Orhan Altan

Address of Incoming Congress Director Cliff Ogleby

# PROGRAMME OF THE CLOSING CEREMONY

- Presentation of Achievements and Highlights of Congress  
Technical Commission Presidents
- Report on GA Ratification by Secretary General Prof. Orhan Altan
- Presentation of President's Honorary Citation  
ISPRS President Prof. Ian Dowman
- Presentation of Best Poster Papers  
ISPRS Congress Director Prof. Chen Jun
- Presentation of CATCON Prizes  
President of ISPRS Technical Commission VI Prof. Kohei Cho  
ISPRS Honorary Member Prof. Shunji Murai
- Presentation of Certificate of Recognition to Local Organizing Committee  
ISPRS President Prof. Ian Dowman
- Congress Director's Report by Prof. Chen Jun
- Report on GA Resolutions by ISPRS First Vice President Prof. John Trinder
- Address by Outgoing President Prof. Ian Dowman
- Address by Incoming President Prof. Orhan Altan
- Flag Handover
- Address by Incoming Congress Director
- Closing Address by Outgoing Congress Director Prof. Chen Jun

# REPORT OF CONGRESS DIRECTOR CHEN JUN

In the summer of 2004, when the ISPRS General Assembly made its decision to elect Beijing as the host city for the XXI ISPRS Congress, we made a promise: we will make this congress special! Over the past four years, with the full support from the ISPRS community, the Chinese Society of Geodesy, Photogrammetry and Cartography and the State Bureau of Surveying and Mapping, we have done our best to prepare and organize the ISPRS Congress in its literal sense - to create an Informative, Special, Progressive, Relaxed and Successful Congress.

## 1. Informative

The Beijing congress has received 2815 abstracts and 1776 full papers. Technical commission IV has the largest number of abstracts and full papers. The numbers of abstracts and full papers per technical commission are given in Table 1.

Table 1 Number of abstracts and full papers of ISPRS 8 technical commissions

COM.	Number of Abstracts	Number of full papers	Remarks
COM I	376	233	
COM II	353	193	
COM III	298	178	
COM IV	457	324	
COM V	365	186	
COM VI	180	108	Including Youth Forum papers
COM VII	389	303	
COM VIII	397	251	
Total	2815	1776	

Ten volumes of proceedings were edited. Technical Commission III has one volume (Part III-a) for peer review papers and another one (Part III-b) for other papers. Part IX contains all the papers presented at the Youth Forums. Both hard and electronically proceedings were produced. The hard proceedings have in total 10334 pages and the CD proceedings have 2.14GB.

Table 2 Volumes of Beijing congress proceedings

No.	Parts	Commissions	full papers	Pages
1	Part I	Commission I	233	1374
2	Part II	Commission II	193	1132
3	Part III - a	Commission III	48	308
4	Part III - b	Commission III	130	756
5	Part IV	Commission IV	324	1864
6	Part V	Commission V	186	1106
7	Part VI	Commission VI	49	272
8	Part VII	Commission VII	303	1750
9	Part VIII	Commission VIII	251	1430
10	Part IX	Youth Forum	59	342
total			1776	10334

More than 270 academic events were moderated and organized during the congress, (see table 3), including 3 Plenary Sessions (PTS), 112 Working Group sessions and theme sessions, 19 special sessions, 3 user's forum sessions, 84 interactive (poster) sessions, 6 pre-congress workshops, 10 pre-congress tutorials and one 4 days' summer school. In total 655 papers were presented at oral sessions and 729 papers were presented at the interactive sessions. An Elsevier Workshop on How to Write Good Journal Papers was also organized to help congress participants to write good technical papers.

## 2. Special

Some new features had been added to the scientific and technical programs of the Beijing. Three user forum sessions were moderated and organized. The user forums provided a platform to demonstrate successful solutions. They also provide a forum for end users to voice demands and an opportunity for manufacturers to work with practitioners.

A number of multi-disciplinary special sessions were organized with sister institutions for covering topics not directly addressed by ISPRS working groups. Two special sessions with a local focus have been organized. One is on mapping in western China - a region with a very harsh natural environment, and the other is on Digital Olympics.

We have also published a monograph entitled Photogrammetry and Remote Sensing in China, which is written in both Chinese and English. This book provides a brief review of the development of photogrammetry and remote sensing in China and it has contributions from over 50 scholars. This is a rich and informative book for domestic and foreign counterparts wanting to know about China's progress and accomplishments in peacefully applying spatial information technology.

### **3. Progressive**

As a milestone in the ISPRS history, the 2008 ISPRS Congress approved Beijing Declaration which declares commitment to promote use of imagery for the benefit of society. It calls on international communities to work together and commit adequate resources to promote the peaceful use of geospatial technology for the benefit of society and the environment. The document reaffirms the ISPRS commitment to realise the full potential of information from imagery through research and development, scientific networking, international cooperation, inter-disciplinary integration and education and training. It also sets out a number ways in which the ISPRS and international communities can work to this end. The Declaration was made by the General Assembly of ISPRS at its XXI Congress held in Beijing, and was announced at a press conference on July 11th attended by the former minister of Science and Technology of China, Xu Guanhua and some 30 members of the Chinese press.

For the first time in ISPRS history, an ISPRS Congress Book has been published on the occasion of the Beijing congress. This book contains 34 chapters contributed by more than 60 active researchers. It provides a comprehensive overview of the progress made in these areas since the 20th ISPRS congress held in 2004 in Istanbul, Turkey. This volume will be invaluable not only to scientists and researchers, but also university students and practitioners.

### **4. Relaxed**

The participants to the Beijing congress were among the few and privileged people who had the opportunity to closely observe the famous new Olympic Stadium (nicknamed the Bird's Nest) and the National Swimming Centre (nicknamed the Water Cube), which could be seen from the conference venue. They even managed to have the first-hand experience of special Olympic traffic lane when they went to the gala dinner.

An exciting and enjoyable program has been made for social activities including traditional Peking opera, an acrobatic show, Beijing Night show and a night at Laoshe Tea House. More than 5000 peoples participated these social events and welcome reception, Exhibitors' Reception, as well as city tours.

A variety of technical tours had also been organized for the congress participants to visit organizations in Beijing, including government agencies, research institutions and commercial companies for photogrammetry, remote sensing and spatial information technology. About 300 participants joined the technical tours.

### **5. Successful**

About 2500 individuals registered for the congress, with 1661 registrations from 76 countries outside China. The General Assembly gathered 120 delegates from 41 members. 95 international and local technology providers (from 26 countries and regions) presented at the four day Technical exhibition. 6 countries (Australia, China, Netherlands, Turkey, UK and USA) joined the National and Scientific Exhibition. About 15,000 individuals visited the Exhibition.

During the congress, many technical sessions were full of participants. There were even more than 900 participants during the closing ceremony. With the full support and active involvement from ISPRS colleagues and participants, we had a successful congress!

# ADDRESS OF OUTGOING PRESIDENT IAN DOWMAN

Congress Director Chen Jun, Distinguished guests, Ladies and Gentlemen,

We have nearly reached the end of a very exciting 8 days and I very much hope that all of you will take home pleasant memories and new ideas and information for your work. We have heard from the TCPs about the technical highlights of the Congress and I am sure that everyone of you will have enjoyed participation in other activities. We have had successful meeting of the General Assembly as you have heard from the Secretary General.

We have also approved the Beijing Declaration which calls on international organisations to work together to promote the peaceful use of geospatial technology for the benefit of society and the environment.

I am very gratified that the themes which I mentioned in my opening speech of collaboration and applying science to the benefit of society have been echoed in many meetings and presentations during the Congress. I think that we can move forward with great optimism about fulfilling our mission and implementing the Beijing Declaration over the next four years. The Youth Consortium has been formalised and the Youth Forum was a great success.

A lot of progress has been made in the past four years but there is always room for improvement. We have learnt lessons and will address shortcomings in the coming years. As I have mentioned before a new strategic plan is being prepared, this will take into account the rapid changes in science, education and the global market.

This is the end of my term of office as president and all that is left for me to do is to thank many people for their help and support during the past four years. Whatever has been achieved could not have been done without a committed and dedicated team. Of course we have had disagreements but we have overcome these and indeed strengthened our understanding of each other and moved on.

Let me start with my colleagues on Council. Secretary General Orhan Altan has set up an efficient organisation in Istanbul and ensured that Council has been supported by this. Treasurer Stan Morain has also

run a well oiled office of the treasurer and has made sure that we hand over a good system and a sound financial situation to his successor. I have benefited enormously from the experience and wise advice from 1st Vice President John Trinder and from the insightful comment and attention to detail of 2nd Vice President Manos Baltasvias. Their input has been invaluable in the discussions of Council. I do not need to repeat what a good job Congress Director Chen Jun has done in organising the Congress, and he has also made strong and useful contributions to all aspects of Council discussion.

Council has been supported by a strong team of TCPs who have provided the framework and encouragement for a strong technical programme; this has also been made possible by the work of the working group chairs and co-chairs.

And of course the local organizing committee for the Congress has done a fantastic job, they have been efficient and friendly and anxious to make sure that both Council and participants have a good Congress. I would particularly like to mention 2 people who have been largely unseen, probably because they have been working so hard, but who have done a great job on the scientific committee and the publications: Jiang Jie has done a great job in putting together the technical programme and liaising with the Technical Commission Presidents, and Zhilin Li has ensured that the Congress Book has been of high quality and published on time, as well as working on the Congress Daily.

I have been well supported by my colleagues in the UK, both at UCL and the Remote Sensing and Photogrammetric Society.

There is one person without whom this would have not been possible: that is my wife Jan. She has put up with my absences and helped me both materially and emotionally when we have been working together. I could not have done this job without her.

Council has a responsibility to run ISPRS for the benefit of you all-its members and participants in the Congress. If you go away from Beijing with new knowledge, new friends and inspiration for the coming four years, we can be satisfied with a job will be done and I can pass the responsibilities of the office to the new president

with a clear conscience that I have served the Society to the best of my ability.

This brings me to my final duty as president of ISPRS - to pass the chain of office over to Orhan Altan, your president for the next four years. I believe that ISPRS

is in a strong and well placed to continue its role of promoting our science, and I am quite sure that Orhan will do an excellent job in all aspects of the work of ISPRS. I congratulate him on his election and wish him well for his term as President.

## ADDRESS OF INCOMING PRESIDENT ORHAN ALTAN

Members of Council,  
Technical Commission Presidents,  
Ladies and Gentlemen,

I am deeply honored that the General Assembly has entrusted me with the role of President of our Society for the next four years. I thank them for their confidence and look forward to upholding the tradition set by previous presidents. The Society would not be in the position that it is in today were it not for the dedication and foresight of previous presidents. I feel very privileged to be following in the footsteps of my predecessors commencing with Dolezal and followed by many others including Doyle, Konecny, Torlegard, Murai, Fritz, Trinder and Dowman.

Please let me share with you some of my experiences from the time I was Congress Director, to when I became Secretary General. First of all, I recall some of my friends' warnings when they previously compared the work of Congress Director and Secretary General. They told me "Orhan don't expect an easier job. Be sure that being a Secretary General is more difficult than a Congress Director".

At the very beginning I didn't believe or I didn't want to believe them. Today, I have completed my term as Secretary General, and realize my friends' warnings 4 years ago were accurate.

However, the main difference between these jobs is quite obvious. During the Congress period I was working with various task groups and managing the congress committees following democratic principles, but I was the only decision maker and had to personally carry all responsibilities. The only way to complete this work successfully was to check if the related actions are done properly, with appropriate coordination and on time.

Meanwhile, as the Secretary General of the ISPRS, I had

to establish close contacts with all members, follow the activities of WG's and the 200 people working within them. Most of these activities don't need decisions but it was my duty to follow these up and ask the related people to conduct these activities as per the regulations of the organization. I had to deal with different cultures, traditions, perceptions and modes of operation. All these are the most difficult part of the job, really!

As the Congress Director you are the king of your own operations within already established terms. You are familiar with your own country's regulation, customs and way your team works, and you are also familiar with the capacity of your own country and environment whereas The Secretary General is only the servant to the most of the people that he is working with! I think this is something that the next Secretary General should take note of...

Dear Friends,

This is a time not only to look back and to give a brief of account on the activities for the past 4 years. I have done this at the General Assembly. As a person in a responsible position one should also give some thoughts to the future.

For me the most important issue for a human living on this planet is to think about the future of his/her environment. This is currently the most important issue for scientists, whether or not he or she is working on an area close to the subjects such as "Environmental Monitoring", "Climate Change" or "Global Warming".

Mr. Ban Ki-moon, Secretary General of United Nations, mentioned in his speech last month on the "World Environment Day";

"Addiction is a terrible thing. It consumes and controls us, makes us deny important truths and blinds us to

the consequences of our actions. Our world is in the grip of a dangerous carbon habit...

Our dependence on carbon-based energy has caused a significant build-up of greenhouse gases in the atmosphere. Last year, the Nobel Peace Prize-winning Intergovernmental Panel on Climate Change put the final nail in the coffin of global warming skeptics. We know that climate change is happening, and we know that carbon dioxide and other greenhouse gases that we emit are the cause".

It is my opinion that in ISPRS we should give "Environmental Monitoring and Sustainable Development", "Disaster Management" and "Food Security" high priority in our activities. I believe that our sciences and technologies can contribute greatly to environmental issues of the globe. We should be in the actions of "Powering a Sustainable Future: Policies and measures to make it happen". We should be one of the International Scientific Societies, which contributes to reach the "Millennium Development Goals".

I hope that we will be in the service of the Society not only with the Earth Observation also with our other science and technologies we will try to solve the different problems of people living on this planet like in the preservation of Culture Heritage, Human Health and/or ease the daily life of them.

This brings me to another point which should rank highly, for my understanding, in the priority list of actions. This is "Publicizing our Science and Technology to the general population". This can also be formulated as "Outreach of ISPRS". For this we have to be prepared not only with scientific papers but also with translating them "Scientific Achievements of ISPRS into common language". These documents can also help us to communicate with other NGO's and elicit feedback from them. One of these NGOs is the World Business Council for Sustainable Development.

The World Business Council for Sustainable Development (WBCSD) is a CEO-led, global association of some 190 companies dealing exclusively with business and sustainable development. Close contact with this organization will assist ISPRS in establishing links with the commercial world for pursuing issues of sustainable development.

The Council is perusing several objectives and is focusing on four key areas:

Energy and Climate

Development  
The Business Role  
Ecosystems

ISPRS has many overlapping interest in these key areas and the establishment of links with the Business Council took place on in May 2008 at Istanbul when President Dowman and I gave presentations on the "Structure and Aims of ISPRS and Sustainable Indicators".

The WBCSD is just one example of the many organizations; contacts with which I hope will intensify ISPRS's outreach to the outside world in order to demonstrate its scientific achievements to society.

ISPRS was founded on the 4th of July 1910 as ISP in Vienna by Prof. Eduard Dolezal: Council has decided to celebrate the centenary of the foundation of the Society with a series of activities on July 4, 2010 in Vienna Austria. The Board of the centenary preparations met this morning to consider plans for the celebrations and I urge you to mark this date in your calendar. This occasion will be used also to outreach our technology and sciences, and of course ISPRS, to the outside world. I can assure you that we will try to offer you a program that you will remember for many years.

This is not only the celebration we are going to have in the next few years. You should also remember the forthcoming dates of the ASPRS Conference next year in Baltimore from 8th to 13th March, where our friends in USA are going to celebrate the 75th Anniversary of their Society, then following this event the German Society (DGPF) is going to celebrate its centenary of Foundation on the 24th to 26th of March 2009 in Jena, the birthplace of the German Society and that is not all. In September next year we will also celebrate 100 Years of the Photogrammetric Week.

All these events will give us the opportunity to remember our roots and think about the future. I hope that most of us will not miss these events.

Ladies and Gentlemen,  
I would like to acknowledge support from many people during my time as Secretary General, most particularly from ITU: my colleagues in the Department of Geodesy and Photogrammetry Engineering, especially Özgür Avşar and Umut Aydar, who have worked with enthusiasm in ISPRS daily matters. I have also had excellent support from the Turkish National Society for Photogrammetry and Remote Sensing. My thanks are also to the Turkish Government,

who supported the Headquarters with a large grant and the Istanbul Technical University for providing me free time to devote to ISPRS business. I would like to thank everybody within ISPRS who has efficiently interacted with me particularly TCPs and WG chairs and of course Council, with whom it has been a real pleasure to work.

The climate of the Council fostered collegial respect, teamwork and cooperation. We owe this climate primarily to President Ian Dowman to whom I would like to express my sincerest thanks. I also would like to thank First-Vice President John Trinder: Without his help I would not be able to fulfill the requirements of this demanding position. John Trinder was the person to receive my reports, documents and edited them with dedication and unpretentious skills.

As I've said lot of effort is involved in the position of Secretary General but the rewards working with such a dedicated and stimulating group of people is the reward that makes it all worthwhile. Finally I would like to thank my wife, Melike, without whose tolerance and support, I would not have been able to serve the Society as Secretary General.

Before concluding I have the responsibility of thank in the Congress Director and his team for organizing

this Conference. In 2004 he promised a memorable congress on "Silk Road for Information from Imagery". He has certainly fulfilled this promise. We have excellent facilities here at the Congress Centre, an unsurpassed technical program, outstanding organization by the Congress team and if this were not enough we have been had the opportunity to explore the exotic Chinese culture to the full through the social program. All this has been enjoyed by participants from all continents. However this is not the end of the story; because behind every good Congress Director is a strong support team. All of Council very much appreciate the support which Jiang Jie and the rest of the large local organizing committee has given him. Finally I thank you all for making this Congress memorable and successful and urge you to return to your home countries and maintain the momentum achieved. Starting from Istanbul we followed the Silk Road to Beijing, and I look forward to seeing you, and many others, in Melbourne in 2012.

So finally I would like to give my word that I will fulfill my responsibilities as President of this Society in the same manner as I have already done for many years.

Thank you ladies and gentlemen for listening to me.

# ADDRESS OF INCOMING CONGRESS DIRECTOR CLIFF OGLEBY

Distinguished guests, ladies and gentlemen,

It is my pleasure to talk to you about the next ISPRS Congress which is going to be held in my home town, Melbourne Australia. It is a great place for a Congress, and perfect chance to catch up with old friends, meet some new ones, eat some fantastic food, drink delicious wines and experience a very unique city and country.

Melbourne consistently ranks as one of the world's leading convention destinations, and has won many awards and accolades for its prowess as a host city for international conventions including: World's Best Convention Centre; World's Best Convention City and Best Convention Bureau Australia/Asia Pacific. The venue is a new state-of-the-art congress centre right next to the central business district on the Yarra River. It is a 6 star environmentally rated facility with plenty of natural light and an extensive use of recycled materials within a short walk from many hotels so our carbon footprint is small.

Melbourne has many attractions, apart from being my home. It is a city of 3.8 million people, and a rich cultural melange with over 200 ethnic communities and 180 spoken languages. There are over 6500 restaurants and 70 different cuisines. It is now a shopping destination, but still has many other cultural attractions including a spectacular arts and entertainment precinct.

Melbourne is also very easy to get to, and the airport is ranked No. 5 in the world by some organization that ranks airports. The Domestic and International Terminals are under one roof, it operates 24 hours per day every day, and there is a Foreign Language Welcome Desk & Wheelchair Assist Service. It is also serviced by over 25 airlines including budget carriers.

The timing of the Congress is early Spring (in the Southern Hemisphere) which is not only a wonderful time to experience Melbourne's Spring Carnival and Australian Rules Football games but also the best weather to explore all that Australia has to offer.

There are plenty of accommodation options in the city with 22,000 rooms (14,800+ within the CBD), over 5,400 rooms within walking distance to the Congress Venue and around 3,000 budget Hostel or Backpacker beds.

Australia has a very active photogrammetry and remote sensing community of academics, government and industry. We have a long involvement with ISPRS, and also understand how to have a good time while being enriched by a Congress.

The Congress Organising Committee is committed to offering an excellent scientific and social program, and a Congress relevant to the goals of the ISPRS. I invite you all to the next ISPRS Congress in 2012 in Melbourne, Australia.

# **ISPRS**

2008

## **RESOLUTIONS**

Beijing Declaration

Approved Resolutions of the XXI ISPRS Congress 2008

# BEIJING DECLARATION

We, members of The International Society for Photogrammetry and Remote Sensing (ISPRS) and participants of the XX1st ISPRS Congress in Beijing, recognize the importance of imagery to measure and monitor the natural and man-made features on planet Earth and to explore other planets of the solar system, especially after witnessing the important role of photogrammetry, remote sensing and spatial information systems in the rescue operation and damage assessment of the recent devastating natural disasters.

We note scientific developments reported during the technical sessions of the Congress and the great progress made in the use of imagery from many different platforms, with numerous sensors, for a wide variety of applications. We particularly note:

1. Wide applications of Earth observation technologies and tools to the fields of socio-economic sustainable development, natural disaster prediction, mitigation and response, maintenance of biodiversity, cultural heritage conservation, global and environmental climate change monitoring, energy exploration and management, land use and land cover inventory, food security, sustainable use of water resources, and human habitat, environment and health.
2. Significant technological achievement in the acquisition, processing, interpretation and analysis of aerial and satellite imagery, advances of airborne and terrestrial lidar, development of imaging radar technology, increased maturity of small satellites and of geo-sensor networks, validation, calibration and certification of digital cameras and other types of sensors, automated information extraction from all forms of imagery, distributed data processing for information services, and multidimensional data modeling.
3. Great progress in developing new forms of cooperation and knowledge sharing, including the Group on Earth Observation (GEO) and its program to establish a Global Earth Observation System of Systems (GEOSS), and the International Council for Science (ICSU) Geo-unions and its activities in Africa, and the Joint Board of Geospatial Information Societies.

Recalling that the 2002 World Summit for Sustainable Development (WSSD) stressed the importance of Earth observation for advancing sustainable development, we strongly believe that photogrammetry, remote sensing and spatial information sciences are essential to ensure sustainable development in the 21st century. We further recognize that non-governmental organizations, especially ISPRS, have the responsibility to promote the peaceful use of space, airborne and terrestrial technology and the realization of the full potential of imagery for the benefit of society and for the maintenance of sustainable growth in all nations.

We reaffirm our commitment to implement the vision for the 21st century of ISPRS, which aims to realize the full potential of information from imagery by encouraging and facilitating research and development, advancing knowledge by scientific networking, promoting international cooperation, pursuing interdisciplinary integration, facilitating education and training, enhancing and exploring new applications, developing public recognition of photogrammetry, remote sensing and the spatial information sciences. We therefore call on international communities to support the Cape Town declaration of GEO and:

1. to commit adequate investment and active engagement in scientific research and development, education and training, and capacity and infrastructure building;
2. to promote the sharing of imaging and ranging technology and data for scientific research and peaceful applications; and
3. to encourage constructive dialogue and close cooperation and collaboration between scientists, governments, public and private sectors, non-governmental organizations, and international organizations and institutions.

We further call for a contribution from everyone to establish and operate a new silk road for information from imagery, leading to a people-centered and sustainable development-oriented information society.

# APPROVED RESOLUTIONS OF THE XXI ISPRS CONGRESS 2008

## General Resolution - Appreciation to Chinese Society and Organisers of the Congress

### *The Congress Commends:*

The Chinese Society for Geodesy, Cartography and Photogrammetry, its President Yang Kai, and Congress Director Prof. Chen Jun, the State Bureau for Surveying and Mapping and the Congress Organizing Committee for their excellent work which has resulted in a very successful Congress.

## Technical Resolutions

### Resolution I.1 Calibration and Certification of Sensors

#### *The Congress:*

##### *Noting*

- the increasing activity in certification of digital cameras, particularly in North America and Europe
- the existence of very few test fields appropriate for sensor calibration and validation

##### *Recognizing*

- the need for all types of sensors (airborne lidar, space-borne sensors, etc.) to be calibrated and validated
- the requirement for common calibration and validation standards and for sharing test fields

##### *Recommends*

- the development of calibration and certification processes for relevant sensors, including the adoption of internationally accepted guidelines and the sharing of data and test fields between countries, through close cooperation with other organizations, system manufacturers and research teams.

### Resolution I.2 Unmanned Vehicle Systems (UVS)

#### *The Congress:*

##### *Noting*

- that unmanned land, air or underwater vehicle systems have become increasingly used for remote data acquisition
- that these systems have introduced remote data acquisition in new fields and for new applications
- that these systems offer the remote sensing community tools and opportunities for rapid instrument and application development

- that these systems strengthen the role of photogrammetry in geoinformation education

##### *Recognising*

- the need for better knowledge and critical in-situation data during natural or man-made crises and exploration in extreme environments
- the opportunity for cost reduction offered by unmanned systems

##### *Recommends*

- organisation of a workshop to bring together all relevant ISPRS WGs in cooperation with the general UVS community;
- a study to compare UVS in terms of quality, performance and cost, having regard to conventional techniques;
- the topic of integrated data acquisition from multiple sensors and platforms be addressed;

### Resolution I.3 High Resolution Sensors for Topographic Mapping

#### *The Congress:*

##### *Noting*

- the continuing increase in the number of high resolution satellites with increased resolutions
- the need for accurate and detailed DEMs, covering large areas
- the difficulty to generate current topographic maps in many countries

##### *Recognizing*

- the need for geometric and radiometric testing, calibration and evaluation of high and very high resolution optical space sensors and SAR satellites
- the potential of satellite borne high resolution optical stereo and interferometric SAR imaging systems for topographic mapping

##### *Recommends*

- the investigation of DEM generation based on new space sensors
- the investigation of the integration and fusion of data from multiple sensors for optimized mapping applications

### **Resolution II.1 Multi-dimensional, Multi-thematic and Multi-resolution Spatial Information for Spatial Decision Support Systems**

*The Congress:*

*Noting*

- Increasing availability of spatial data in different temporal, thematic and geometric resolutions
- that many urgent issues facing mankind require detailed spatial data
- the development of sensor web technology allowing distributed sensors to measure and locally communicate geospatial information

*Recognizing*

- the critical role of explicit semantics and ontologies of geospatial data
- the potential of such data for decision support
- the need for data integration in order to exploit the richness of the individual data sets
- the need to identify appropriate spatial information for dedicated applications via the Internet

*Recommends*

- the development of methods and tools for the mining of multi-resolution spatio-temporal data, and its semantic and geometric integration and analysis
- establishment and development of techniques for intelligent sensor data integration
- the development of efficient storage methods for multi-dimensional and multi-temporal data
- the establishment of benchmarks and sample data sets for testing proposed solutions in spatial data handling and for quality control

### **Resolution II.2 Pervasive Geo-computing and Services**

*The Congress:*

*Noting*

- the general trends towards miniaturization, and towards ubiquitous and wearable computing
- new applications of spatial data and spatial computing, e.g. in traffic and personal navigation
- the fast emergence of Web 2.0
- the paramount role of the Internet and location-based services, and 'virtual globes' in society

*Recognizing*

- the increasing potential of the Web for dissemination of spatial information
- that 'virtual globes' offer a more intuitive view of spatial phenomena for a wider audience than conventional maps
- the challenges of efficient storage and processing of

vast amounts of spatial data

*Recommends*

- the encouragement of research in pervasive geo-computing
- the development of geospatial data processing techniques using distributed services and grid computing
- the development of Web search engines for spatio-temporal data

### **Resolution II.3 Geovisualization of Multi-dimensional Data**

*The Congress:*

*Noting*

- an increasing demand by the general public for visualization of spatial data
- the wide availability of on-line and Web-based visualization products
- the availability of huge, complex, multi-dimensional geospatial data sets, and the development of new visualization devices (such as globe displays, smart paper, touch tables)

*Recognizing*

- that the integrated visualization of multi-dimensional (3D++) data offers major challenges
- that visualization plays an important role in all ISPRS disciplines
- the need for collaborative visualization using a variety of devices

*Recommends*

- the encouragement of research into novel visualization technologies for spatial data
- the development of strategies and methods for collaborative geo-visualization of dynamic phenomena in cooperation with TC IV
- the development of advanced methods for visualization of, visual analytics for, and interaction with, multi-dimensional heterogeneous data complementing the work of TC IV

### **Resolution II.4 Cooperation with other Organizations and Groups in the Geoinformation Science Domain**

*The Congress:*

*Noting*

- the variety of organizations and groups dealing with geoinformation science (IGU, ICA, GIScience, AGILE, etc)
- the increasing number of workshops, symposia and conferences in this discipline
- the recent identification of geoinformation science

as an important ISPRS topic and the assignment of a Commission to it

- that ISPRS symposia have not yet attracted the scientific community in the geoinformation science domain to the desired degree
- that the reputation of the symposia of some of the other organizations is currently higher

#### *Recognizing*

- the determination of ISPRS to strengthen its position in the geoinformation science domain
- the importance for geoinformation science of image data, as well as quick data capture and data update by a variety of distributed sensors
- the need to transfer contributions and strengths of ISPRS research in this domain to the other groups

#### *Recommends*

- that cooperation with other organizations be strengthened in order to identify key research questions
- joint workshops and symposia
- increasing the attractiveness of ISPRS events through reviewed publications and highly interactive workshops

### **Resolution III.1 Integrated Evaluation of Range and Image Data**

#### *The Congress:*

##### *Noting*

- the rapid technological development of 2D and 3D sensor systems, such as airborne and terrestrial lidar systems,
- their ability to provide full waveform as well as spectral information, and
- the availability of high resolution off-the-shelf frame cameras.

#### *Recognizing*

- the need for high resolution and up-to-date 3D information especially in urban areas for 3D city modelling, in forest areas for high accuracy inventory and planning,
- the difficulty of exploiting the accuracy of the sensors, and
- the different mode of operation and large gap in resolution between range and image data.

#### *Recommends*

- the encouragement of research in automatic calibration and orientation methods for range and image data,
- the analysis of the potential of lidar signals for information extraction, and
- fostering research on the integrated evaluation of

lidar and image data.

### **Resolution III.2 Automated Interpretation of Range and Image Data**

#### *The Congress:*

##### *Noting*

- the advancement in knowledge representation and statistical modelling as well as learning of complex phenomena,
- especially the increasing use of stochastic grammars, Markov-Random Fields and Bayesian and Causal Networks, and
- the availability of huge volumes of range and image data and data streams at all scales.

#### *Recognizing*

- the need to increase the efficiency of topographic mapping, high-resolution 3D city modelling and land use mapping at all scales without intensive human interaction
- the increasing overlap of interpretation methods used for terrestrial, aerial and satellite data and data streams.

#### *Recommends*

- the intensification of the development of theoretically well founded tools for interpreting range and image data,
- increasing the cooperation with the pattern recognition, computer vision and robotics communities
- fostering research on object detection and scene analysis for range and image data at all scales, in conjunction with Commissions V and VII.

### **Resolution IV.1 Spatio-temporal Data Models and Image Databases**

#### *The Congress:*

##### *Noting*

- the increased need for data models to support complex and consistent data querying and updating;
- the significantly increasing acquisition of high spatial, spectral and temporal resolution digital images combined with archives of historical imagery;
- the availability of many of these images as geographically organised web-based Digital Earth representations and dynamic image databases linked to global knowledge archives.

#### *Recognizing*

- the enormous potential of high-resolution images for the automatic generation, refinement and maintenance of updated geospatial databases;
- the need for increasing the level of automation in 3D

and 4D geospatial data processing in order to take full advantage of the images;

- the need for constantly monitoring the Earth surface to better cope with global climate change, human impacts, infectious diseases, and other societal issues and environmental challenges.

#### *Recommends*

- intensification of research using high resolution images for updating of geo-databases
- development of models for efficient management of spatio-temporal information;
- development of innovative methods for creating, accessing, indexing, and analyzing spatio-temporal image databases, including spatial data mining, object-based image analysis and open source.

### **Resolution IV.2 Geospatial Data Representation and Context-Aware Visualisation and Analysis**

#### *The Congress:*

##### *Noting*

- the increasing interest in research in conceptual/semantic aspects of geospatial information science for building true 3D and 4D geo-databases;
- the remarkable advances in geo-visual analytics, software and hardware for processing, management, visualisation and analysis of land, ocean, atmospheric and urban models;
- the tremendous interest in planetary processes that builds on successes in extraterrestrial mapping.

##### *Recognizing*

- the need to apply geospatial information science concepts in data representation, context-aware visualization and analysis of Earth/planetary landscape, seascape and atmospheric models;
- the necessity to create interoperable standards in order to support all graphic device interface (GDI) developments;
- recent trends in pervasive and ubiquitous geo-technology for locational and context-aware mobile services.

#### *Recommends*

- To extend research in 3D/4D Modelling and representations towards integrating dynamic phenomena (e.g., 4D physical processes, noise, wind, pollution) with Earth/planetary surfaces and objects (man-made and natural);
- Continuing research on data management and models for dynamic and context-aware 3D/4D visualisation and analysis complementing geo-visualisation aspects of Commission II.

### **Resolution IV.3 Integration and Harmonisation of Heterogeneous Data**

#### *The Congress:*

##### *Noting*

- the increasing importance of geospatial data as a common base for integrating diverse and heterogeneous data from different sources and disciplines;
- the increasing need for geospatial data in time-critical applications such as emergency services, emerging infectious disease, disaster response and recovery;
- increasingly pervasive and ubiquitous geo-technology and geo-information for a wide range of application scales from fine-scale (indoor) environments to global Earth and planetary investigations.

##### *Recognizing*

- the need for increasing the level of automation in geospatial data processing in order to take full advantage of images/spatial data of earth and other planets;
- the need for better management and analysis of all types of data;
- the need to thoroughly understand the advanced concepts of geospatial information science in order to successfully apply these concepts in practical work.

#### *Recommends*

- coordination with Commission II on the development of ontologies in different domains;
- harmonisation of data sources, particularly image, CAD, Architectural Engineering Construction (AEC), Building Information Modelling (BIM), topographic data and biological/physical data, for global processes and emergency response;
- increased research on use of multi-dimensional data models for management of dynamic heterogeneous data, in cooperation with Commission II.

### **Resolution IV.4 Geospatial Data Cyber-infrastructure**

#### *The Congress:*

##### *Noting*

- the increased awareness of, and demands for geospatial information by governments, industry, academia and society;
- recent advances in the integration of imagery, GIS data and ground data for web-based 'virtual globes' ;
- the increased demand for and support of open and geospatial standards by professionals and vendors;
- the maturing of geospatial database management systems;
- advances in cyber-infrastructure network and

communicating technologies.

#### *Recognizing*

- the developments at national and international level related to harmonisation of geospatial data and the construction of spatial data cyber-infrastructures such as GMES and INSPIRE in Europe, UNSDI and Digital Earth initiatives;
- emerging international efforts to coordinate and increase the awareness of global Earth monitoring systems and initiatives such as GEOSS;
- international activities for standardisation of service, system architectures and geospatial information such as those from ISO and from OGC.

#### *Recommends*

- contributing towards international efforts (INSPIRE, GMES, UNSDI, Digital Earth) and towards standardisation of geospatial information (e.g. ISO, OGC);
- further development of server-based, location-based, Internet centred, distributed and federated architectures for geospatial services and analysis;
- intensification of research on knowledge-based systems to facilitate the transition from data-centred to human-centred applications.

### **Resolution IV.5 Geo-sensor Networks**

#### *The Congress:*

#### *Noting*

- the increasing availability of small sensors collecting and analysing spatial data in a collaborative way;
- the increased maturity of such sensor networks in terms of battery power, communications and miniaturisation ;
- increased interest in real-time monitoring of dynamic phenomena and moving objects;

#### *Recognizing*

- the potential of such sensor networks to solve relevant geospatial problems;
- The need to better understand the different aspects of geo-sensor networks to fully exploit their potential.

#### *Recommends*

- the study of geo-sensor networks including their use in dynamic scenarios;
- investigation of efficient ways to visualise and analyse the resulting often unconventional data streams;
- investigation of data models for dynamic management, analysis and archiving of sensor data.

### **Resolution V.1: Terrestrial Laser Scanning, 3D Imaging and Point Cloud Processing**

#### *The Congress:*

#### *Noting*

- the development and rapidly expanding sales of terrestrial laser scanner instruments,
- the growing market of optical-triangulation-based surface measurement systems,
- the advent of novel 3D cameras;

#### *Recognizing*

- the lack of suitable software tools for efficient 3D point cloud data processing,
- the potential of the complementary nature of 3D point cloud and 2D image data,
- the lack of understanding of the accuracy behaviour of laser scanner and 3D cameras;

#### *Recommends*

- intensification of efforts in the field of terrestrial laser scanner geometric Modelling
- development of automatic point cloud processing techniques and integrated point cloud plus image processing techniques,
- further investigation of accuracy issues and development of integrated sensor fusion self-calibration techniques.

### **Resolution V.2 Image Engineering**

#### *The Congress:*

#### *Noting*

- the great potential of photogrammetric measurement techniques in industrial design, production and quality control processes as well as in robotics;

#### *Recognizing*

- the importance of automation, reliability and accuracy in all phases of on-line or real-time data processing chains,
- the necessity to achieve 99.9+% reliability in industrial applications of photogrammetric techniques;

#### *Recommends*

- continuing strong focus on image engineering techniques in optical metrology,
- consolidation of the leading role of ISPRS in sensor technology evaluation, sensor Modelling and calibration,
- continued adoption of new types of sensors such as omni-directional systems, 3D cameras and multi-ocular systems.

### **Resolution V.3 Cultural Heritage, Virtual Reality and Animation**

*The Congress:*

*Noting*

- the continuing demand for close-range photogrammetric techniques and spatial information systems for recording, mapping, 3D Modelling and visualization of structures of architectural significance and objects of importance to the cultural heritage,
- the potential of photogrammetric techniques for the creation of high quality 3D models from real scenes and real-world objects and for 3D motion data capture;

*Recognizing*

- the need for efficient technologies for imaging, data processing, Modelling, visualization, archiving and information management,
- the need for an evaluation of the quality of the 3D models to traceable standards,
- the market potential of location-based services;

*Recommends*

- promotion of innovative technologies in the recording, data processing, information management and development of new products in support of archaeology, architecture and conservation through the use of 3D object modelling, VR and animation;
- definition and application of traceable standards and quality evaluation procedures of the resulting 3D models ;
- consolidation of activities in mobile mapping and location-based services.

### **Resolution VI.1 Education and Training**

*The Congress:*

*Noting*

- the relevance and importance of training and education for the ongoing development of the photogrammetry, remote sensing and spatial information sciences, especially in the developing world;
- the benefits of and the need for education networking and sharing of expertise and resources;

*Recognizing*

- the need to enhance communication between education institutions and individual educators in all regions of the world;

*Recommends*

- intensification of cooperation with Regional Members of ISPRS, sister societies, and non-governmental organizations to promote educational activities

and pursue the development and maintenance of educational web portals;

- support for the efforts of UN and other organizations in the delivery of training opportunities and capacity building in developing countries;
- continuation of education and training efforts in primary and high schools, basic vocational courses and universities at all levels.

### **Resolution VI.2 e-Learning**

*The Congress:*

*Noting*

- e-learning includes but is not limited to computer-based teaching, web-based learning, virtual classrooms and distance learning;
- e-learning offers new opportunities and benefits for the education and training processes;
- e-learning courses will help participants from the developing countries in capacity building and technical training

*Recognizing*

- information technology is increasingly used in the support of education and training, both for on-site and distance learning;
- it is often difficult to find information on existing courses;
- partnerships are a key characteristic of e-learning that can assist education institutions to share knowledge and good practice and avoid duplication of work.

*Recommends*

- an evaluation of existing and new developments in e-learning;
- the encouragement of development and use of innovative multimodal techniques including multimedia visualization;
- continued development of public domain educational software and web pages;
- support for coordination of initiatives to advance e-learning activities;
- continuation of the computer-assisted teaching contest (CATCON).

### **Resolution VI.3 International Cooperation and Capacity Building**

*The Congress:*

*Noting*

- the shortage of qualified academic and professional staff in the developing world against the background of rapidly developing technology and applications;
- the limited resources and the inadequate institutional environment in the developing world to build capacity

and attract and maintain qualified academic and professional staff.

*Recognizing*

- the need to enhance the theoretical, practical and management skills of individuals in the developing world;
- the principle that enhancing such skills should preferably take place in the developing world;
- the need for international cooperation in building the capacity in the developing world through knowledge development and transfer

*Recommends*

- the pursuit of international cooperation among scientific and professional organizations, both the developing and the developed world, and within the developing world
- that such international cooperation preferably be within the framework of international initiatives such as GEO and the Joint Board of Geospatial Information Societies;

**Resolution VI.4 Promotion of the Profession to Students and Young Scientists**

*The Congress:*

*Noting*

- the alarming decline in the number of students as a cause for concern for the viability of the profession and the availability of graduates who form the future core of ISPRS.
- the increasing possibilities for student mobility between institutions during their education and training.

*Recognizing*

- the need to promote relationships between professionals and high school students in order to improve recruitment of new professionals for the photogrammetry, remote sensing and spatial information sciences.

*Recommends*

- active promotion and integrate of young people, especially University students, into ISPRS activities;
- active promotion of ISPRS Youth Forum and Student Consortium
- encouragement of relevant organisations to facilitate international student exchange and technical training programs at all levels
- participation of the Student Consortium in outreach activities at all levels.

**Resolution VII.1 Information Extraction from SAR and Other Image Data**

*The Congress:*

*Noting*

- the new trend in remote sensing, especially for tropical areas, other cloud covered regions and high latitude areas, represented by rapid developments in satellite SAR technology,
- the launch of an increasing number of high resolution SAR satellite sensors

*Recognizing*

- that more SAR research is essential for the optimum use of such data and the rapid development of application technologies

*Recommends*

- increased research on information extraction from SAR data, especially in new domains such as polarimetric SAR, interferometric SAR (InSAR), differential InSAR (D-InSAR), and persistent scatterer InSAR (PS InSAR)
- increased research into fusion of SAR data and other types of image data such as optical and hyperspectral.
- increased cooperation with other institutions and societies engaged in such research

**Resolution VII.2 Multi-temporal Analysis and Change Detection**

*The Congress:*

*Noting*

- the changes in urban areas, environment and Earth's climate
- the increased number and variety of high, and medium resolution active and passive satellite-borne sensors
- the requirements to integrate and fuse disparate data types
- the need for sensor inter-calibration,
- the limitations of single sensors for sufficient feature extraction for change detection studies
- the growing archives of satellite data

*Recognizing*

- that retrieval of quantitative parameters from these sensors and derived measurements is essential to understand and model the various phenomena
- that methods for thematic data extraction, fusion and classification, using such advanced data sources are far from operational,

*Recommends*

- further development of enhanced change detection and fusion algorithms to take advantage of these

multiple data sources and archived data-sets

- development of standards for such procedures.
- further research on the accuracy/reliability of such methods to increase confidence in the resulting information.

### **Resolution VIII.1 Monitoring Changes of Land Use/ Cover, Ecosystems and Biodiversity**

*The Congress:*

*Noting*

- that significant contributions made by remote sensing Earth observations and technologies facilitate the mapping, inventory and monitoring of land-use/cover, ecosystems and biodiversity
- the need for crop inventory, soil mapping, land degradation studies, water resource mapping
- the contributions made by GI-sciences and space community in disaster monitoring, mitigation and damage assessment.
- the worldwide rapid, unplanned urbanization;

*Recognizing*

- that agricultural remote sensing research is mostly limited to studies of different aspects in isolation;
- that efficient and sustainable use of water resources is a priority for the world.
- the benefits of remotely sensed data in monitoring the impacts of urbanization.
- the importance and vulnerability of ecosystems and conservation of biodiversity
- the improved spatial, spectral, and temporal capabilities of new sensor technologies
- that disaster management and environmental safety have been recognized as a priority issue in different UN agencies such as OCHA (Office for the Coordination of Humanitarian Affairs), WFP, UNHCR, UNOOSA, FAO and UNDP

*Recommends*

- continuation and enhancement of the use of remote sensing and GIS and development of procedures and models for the attainment of agriculture and water sustainability and security; for inventorying, monitoring and conservation of forest resources and biodiversity; and for disaster early warning, monitoring, damage assessment, and mitigation.
- continuation of the monitoring of land use and land cover transformation, with special emphasis on urban growth and human impact.
- continuation and enhancement of cooperation with such partners as CEOS, UNOOSA, UNESCO, WFP, GEO, Geo-societies and other related organizations.

### **Resolution VIII.2 Atmospheric, Weather and Climate Change Studies and Forecasting**

*The Congress:*

*Noting*

- that many measurements pertaining to the atmospheric constituents and profiles are available from a network of space and in-situ systems
- the relationship between global climate and environment changes
- the major initiatives leading to significant new insights into global processes and the decades of valuable polar research, including the Kyoto Protocol and 2007-08 IPY;

*Recognizing*

- the continuous need for understanding various atmospheric processes and the global environment;
- the need for both short-term and long-term weather forecasting.
- the fundamental importance of the global environment, and the role of polar regions in its preservation;
- the need to monitor air pollution;
- the capability of remote sensing technologies in providing valuable inputs to polar research in an unbiased manner;

*Recommends*

- further use of climate observing systems and development of long-term records for weather and climate Modelling and forecasting, to improve the analysis of the impact of climate change.
- monitoring of and research into air pollution
- development of strategies, methods and algorithms for integrating remotely sensed data in the research and monitoring of the cryospheric regions
- continuation and enhancement of collaboration with GEO, GEOSS, IMO

### **Resolution VIII.3 Human Health and Environment**

*The Congress:*

*Noting*

- that changes in the natural environment can impact human health
- the link of environment to certain diseases
- that diseases resulting from both infections and pollution are re-emerging in their former ranges

*Recognizing*

- that remote sensing provides timely Earth observation environmental data
- the need for environmental data for health studies and disease prevention

- that Earth observation data can improve environmental models to enhance decision support and early warning systems

*Recommends*

- integration of Earth observation products with enhanced predictive Modelling capabilities for early warning and surveillance of environmental impacts on human health in cooperation with other international, national, and regional organizations and activities
- collaboration between the Earth observing communities and the public health communities
- participation of ISPRS in the ICSU initiatives including the GeoUnions Health Group and the Science for Health and Well-being (SHWB) Initiative

**Resolution VIII.4 Management and Security of Energy and Natural Resources**

*The Congress:*

*Noting*

- the importance of exploration and exploitation of energy and the need for energy management
- the environmental impacts of energy production and consumption

*Recognizing*

- the extensive use of remote sensing data and technologies in the exploration and exploitation of natural resources
- the urgent need for protection of natural resources and energy supplies

*Recommends*

- the study and investigation of the use of remote sensing data and technologies in the management of energy and natural resources, and in determination of the potential of renewable energy sources
- investigation of the environmental impacts of energy production and consumption

# **ISPRS**

2008

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Huang Xin	Ke Xilin	Li Jinxing

Li Jing	Li Yunfan	Liu Qiang
Li Jingliang	Li Yunpeng	Liu Qin
Li Jingzhong	Li Yanyan	Liu Ruomei
Li Jun	Li Yuping	Liu Shengwei
Li Junxiang	Li Zhanrong	Liu Shijie
Li Junyi	Li Zhigang	Liu Siwei
Li Junyuan	Li Zhiwei	Liu Tao
Li Kai	Liang Jun	Liu Ting
Li Kaijun	Liang Mou	Liu Wei
Li Le	Liang Shenglou	Liu Weijian
Li Lelin	Liang Shouzhen	Liu Xia
Li Li	Liang Yong	Liu Xiangnan
Li Lianying	Liao Anping	Liu Xianlin
Li Lijiang	Liao Ming	Liu Xiantao
Li Lu	Liao Mingsheng	Liu Xiaolong
Li Mei	Liao Mingwei	Liu XiaoSheng
Li Pengde	Lin Wenjing	Liu Xisheng
Li Pingxiang	Lin Aihua	Liu Xueping
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Li Sheng	Lin Mengan	Liu Yanhua
Li Shizhong	Lin Xiangguo	Liu Yaolin
Li Shuang	Lin Xianyong	Liu Yi
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Li Shuyun	Lin Yiquan	Liu Yong
Li Suju	Lin Zongjian	Liu Yongqiang
Li Tao	Ling Yufei	Liu Yongxue
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Li Wei	Liu Wenping	Liu Yumei
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Li Weijian	Liu Bin	Liu Yuping
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Li Xin	Liu Hangye	Liu Zhaoqin
Li Xinke	Liu Haojie	Liu Zhengjun
Li Xiujian	Liu Hongjiang	Liu Zhiyong
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Li Yingqin	Liu Jun	Lou Yanmin
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Luo Jun  
Luo Xiangyong  
Luo Xianxue  
Luo Xiaoman  
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Lv Tingting  
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Wang Xinlin  
Wang Xinyi

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Wang Yunlong	Wu Xie	Xu Lilin
Wang Yuzhi	Wu Yingdan	Xu Liping
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Wu Hongtao	Xiong Yong	Yang Hua

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Yang Jilong	Yin Jinhua	Zhang An
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Yang Jinghui	Yin Ping	Zhang Bo
Yang Jinqiang	Ying Hexiang	Zhang Chaolin
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Yang Kun	Yu Caibo	Zhang Daxin
Yang Limin	Yu Dongmei	Zhang Donglin
Yang Lin	Yu Fan	Zhang Fan
Yang Mei	Yu Feng	Zhang Feiyan
Yang Minghui	Yu Hai	Zhang Feng
Yang Na	Yu Hongwei	Zhang Fengzan
Yang Pinfu	Yu Huan	Zhang Fuping
Yang Ping	Yu Jie	Zhang Guo
Yang Qiuhe	Yu Junpeng	Zhang Guohui
Yang Ran	Yu Lijun	Zhang Guokun
Yang Rihong	Yu Ming	Zhang Haitao
Yang Rong	Yu Qifeng	Zhang He
Yang Sheng	Yu Qingguo	Zhang Hongwei
Yang Shengqiu	Yu Shuting	Zhang Hongyan
Yang Shucheng	Yu Wenshuai	Zhang Huijiang
Yang Shude	Yu Xin	Zhang Jianfeng
Yang Songyan	Yu Xuchu	Zhang Jiangqi
Yang Tianke	Yu Xusheng	Zhang Jiankang
Yang Weigang	Yu YangWen	Zhang Jianren
Yang Xi	Yu Yongsheng	Zhang Jianying
Yang Xin	Yu Zhiyuan	Zhang Jiashen
Yang Xu	Yuan Chunjing	Zhang Jie
Yang Yingbao	Yuan Hui	Zhang Jielin
Yang Yukun	Yuan Lifeng	Zhang Jin
Yang Yuanxing	Yuan Ying	Zhang Jing
Yang Yuli	Yuan Zhanliang	Zhang Jingli
Yang Zhaohui	Yue Jianwei	Zhang Jinlong
Yang Zhenyu	Yue Tianxiang	Zhang Jinshui
Yang Zhiqiang	Yue Tong	Zhang Jixian
Yang Zongren	Yue Xijuan	Zhang Junhui
Yang Zuhu	Yun Yang	Zhang Junjie
Yang Jun	Yuxin Miao	Zhang Junru
Yao Hui	Zeng Lihong	Zhang Ka
Yao Jing	Zeng Shan	Zhang Keshu
Yao Lili	Zeng Yongnian	Zhang Li
Yao Qiangui	Zeng Yu	Zhang Liang
Yao Wanqiang	Zha Zhuhua	Zhang Liguo
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Ye Jianhua	Zhai Liang	Zhang Liping
Ye Qin	Zhan Chunxiao	Zhang Longqi
Ye Qinghua	Zhan Qin	Zhang Minxia
Yi Changhua	Zhan Qingming	Zhang Pengqiang
Yi Li	Zhan Yun	Zhang Qiang
Yi Wenbin	Zhan Zongqian	Zhang Qilai

Zhang Qingfeng  
Zhang Qingpu  
Zhang Qingyong  
Zhang Qiuju  
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Zhang Raymond  
Zhang Rongqun  
Zhang Rui  
Zhang Ruitao  
Zhang Shanqi  
Zhang Shaoming  
Zhang Shengde  
Zhang Shengliang  
Zhang Shijian  
Zhang Shuangna  
Zhang Shuangzhan  
Zhang Shuliang  
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Zhang Ting  
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Zhang Weiwei  
Zhang Weizhong  
Zhang Wenjun  
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Zhang Wuming  
Zhang Xiaoxiang  
Zhang Xinchang  
Zhang Xing  
Zhang Xinli  
Zhang Xinmin  
Zhang Xueping  
Zhang Xuewen  
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Zhang Yongsheng  
Zhang Yongzhi  
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Zhang Yuanjie  
Zhang Yuehua  
Zhang Yulin  
Zhang Yuming  
Zhang Yunbin  
Zhang Yunsheng  
Zhang Zhaoyang  
Zhang Zhengxiang  
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Zhang Zhichao  
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Zhang Zhiyu  
Zhang Zhongkai  
Zhang Zhongliang  
Zhang Zimin  
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Zhao Dan  
Zhao Dong  
Zhao Fusheng  
Zhao Hongrui  
Zhao Jianjun  
Zhao Jicheng  
Zhao Junrui  
Zhao Junxia  
Zhao Linbin  
Zhao Liping  
Zhao Longchuan  
Zhao Quanhua  
Zhao Rongduo  
Zhao Shangmin  
Zhao Shihu  
Zhao Shuhe  
Zhao Shuxuan  
Zhao Ting  
Zhao Tingting  
Zhao Weidong  
Zhao Weiping  
Zhao Xian  
Zhao Xingang  
Zhao Xiuying  
Zhao Yahong  
Zhao Yingzhi  
Zhao Yongguo  
Zhao Yousong  
Zhao Youxing  
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Zhao Zheng  
Zhao Zhijin  
Zhao Zhonghai  
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Zheng Bo  
Zheng Guoqiang  
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Zheng Jiwu  
Zheng Jianghua  
Zheng Jingjing  
Zheng Jinshui  
Zheng Liqing

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Zhi Junyi  
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Zhou Chunxia  
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Zhou Jinfeng  
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Zhou Li  
Zhou Liangchen  
Zhou Mei  
Zhou Peicheng  
Zhou Qigang  
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Zhou Taiping  
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Zhou Xiaodong  
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Zhu Guang  
Zhu Jianping  
Zhu Jie  
Zhu Liang  
Zhu Liying  
Zhu Minqiang  
Zhu Ping  
Zhu Qing  
Zhu Weiqi  
Zhu Wu  
Zhu Xianqiang  
Zhu Xiaokun  
Zhu Xiaolin  
Zhu Xinchun  
Zhu Xinyan

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Stilla Uwe  
Storch Tobias  
Straub Christoph  
Tavakkoli Mohammad  
Tecklenburg Werner  
Thiele Antje

Thoennessen Ulrich  
Thomas Ulrike  
Uffenkamp Volker  
Vogtle Thomas  
von Hansen Wolfgang  
Waehlich Marita  
Waldhoff Guido  
Walter Volker  
Wang Yunsheng  
Wang Zhi  
Wegner Jan-Dirk  
Weidner Uwe  
Weihsing Diana  
Wenzel Susanne  
Weskamm Johannes  
Westfeld Patrick  
Weyler Stefan  
Willmes Christian  
Willner Konrad  
Winck Berthold  
Yao Wei  
Ziems Marcel

#### **Ghana**

Kwabena Forkuo Eric  
Opoku Nyarko Juliana

#### **Greece**

Egglezos Dimitrios  
Grammalidis Nikolaos  
Kalisperakis Ilias  
Karras George  
Kokla Margarita  
Koukoulas Sotirios  
Koutsia Alexandra  
Moullou Theodora  
Natsis Stefanos  
Papavasileiou Georgios  
Pantias Petros  
Petsa Elli  
Spatalas Spiridon  
Tomai Eleni  
Tsingas Vassilios  
Tsioukas Vassilios  
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Kern Philip  
King Bruce  
Lee Kwok-leung  
Li Zhilin  
Mahoney Tim

Ng Candice  
Shi John  
Wong Kam Fung  
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Zhou Qiming

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Fekete Karoly  
Gross Miklos  
Jancso Tamas  
Kertész Imre  
Király Géza  
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Schrott Péter  
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Beaudet Herve  
Biswas Susham  
Dasgupta Arup Ranjan  
Dhanapalan Vinu  
Dutta Rishiraj  
Eluri Pattabhi Rama Rao  
Jacob Novaline  
Kandrika Sreenivas  
Kharol Shailesh Kumar  
Krishna Bal  
Kumar Sanjay  
Malaviya Sanjay  
Nayak Shailesh  
Parihar Jai Singh  
Penumetcha Pln  
Punia Milap  
R. Amitabh  
Raiborde Vivian  
Ramanathan Nandakumar  
Shah Pushpalata  
Shanmugam Sanjeevi  
Sharma Anu Rani  
Shukla Yogita  
Sitiraju Srinivasa Rao  
Srivastava Pradeep K

#### **Indonesia**

Agvs Ariaoi  
Ajje Kerv Schyo  
Amhar Fahmi  
Banibaug Haryauto  
hadimijaya Indra  
Hastuti Trini  
Martha Sukendra  
Matindas Rudolf

Mulyana Ade Komara  
Nardy Leo  
Rachmansjah Maman  
Sudjono Sudjono  
Sukmayadi Dooi  
Sumartono  
Tjekiagos Ariffin

#### **Iran**

Miruakili Sayed Ali Akbar  
Varshosaz Masood  
Abbasi Mozhgan  
Adham Khiabani Sina  
Afshari Nader  
Ahadzadeh Sajjad  
Ahmadi Salman  
Akbari Vahid  
Skhoondzadeh Hanzani Mehdi  
Ali Abbaspour Rahim  
Arefi Rad Soudabeh  
Ashoori Hamed  
Azari Alireza  
Boroumand Mehdi  
Chavoshi Seyed Hossein  
Dadrasjavan Farzaneh  
Delavar Mahmoud Reza  
Ekhtari Nima  
Eslami Rad Ali  
Fadavi Anbiaei Alireza  
Farnood Ahmadi Farshid  
Ghafarian Malamiri Hamid Reza  
Ghane Mohsen  
Homainejad Amir Saeed  
Hosseinian Sahar  
Karimi Mohammad  
Mansourian Ali  
Mazaheri Habib  
Mazaheri Tehrani Mehdi  
Mir Ghassempour Mir Ahmad  
Mobasheri M.Reza  
Mohammadi Hashemi Said Alireza  
Mohammadzadeh Ali  
Mojaradi Barat  
Mokhtarzade Mehdi  
Moussavi mahsa Sadat  
Ramzi Pouria  
Rastiveisi Heidar  
Rezaei Yousef  
Saeedi Sara  
Saleknia Alireza  
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Sarpoulaki Mohammad  
Shahbazi Mozhdeh

Shariat Masoome  
Sohrabi Hormoz  
Zarrinpanjeh Nima

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McGovern Eugene  
Mooney Kevin  
Mumtaz Salman Ali

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Akav Amos  
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Ben-Dor Eyall  
Benhamu Moshe  
Doytsher Yerach  
Ethrog Uzi  
Ill Herzel  
Israel Shlomo  
Joubran Abu Daoud Jacqueline  
Kiamant Alon  
Kochva Or  
Levin Shahaf  
Peled Ammatzia  
Qizel Fadi  
Raizman Yuri  
Shoshany Maxim  
Srebro Haim  
Tilles Eliahu  
Vilan Yaron  
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Ajmar Andrea  
Alba Mario  
Ammoscato Alessio  
Artese Giuseppe  
Banchini Giovanni  
Barbarella Maurizio  
Barducci Alessandro  
Baruth Bettina  
Boccardo Piero  
Brovelli Maria Antonia  
Caroti Gabriella  
Casella Vittorio  
Crosilla Fabio  
D'Amelio Salvatore  
Digregorio Artonio  
Douskos Valsamis  
D'Urso Maria Grazia  
Emmolo Davide  
Fassi Francesco  
Fiani Margherita

Fratarcangeli Francesca  
Gandolfi Stefano  
Gianinetta Marco  
Giulio Tonolo Fabio  
Grimaldi Pietro  
Guarnieri Alberto  
Guzzi Donatella  
Herland Einar-Arne  
Lingua Andrea Maria  
Macinverni Eva Savina  
Maffeis Andrea  
Marenchino Davide  
Melis Maria Teresa  
Nex Francesco Carlo  
Orlando Pietro  
Pesenti Manuele  
Piatto Dario  
Pieralice Francesca  
pietranera luca  
Pinto Livio  
Pippi Ivan  
Pluto-Kossakowska Joanna  
Prandi Federico  
Rinaudo Fulvio  
Salemi Giuseppe  
Scaioni Marco  
Seianna Andrea  
Terzo Olivier  
Vacca Giuseppina  
Vettore Antonio  
Villa Paolo

### **Jamaica**

Taylor Janet

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Ahmed Afzal  
Akai Shinya  
Akamatsu Yukio  
Akiyama Yuki  
Balt Suvdantsetseg  
Chen Tianen  
Chikatsu Hirofumi  
Cho Kohei  
Daihara Takeshi  
Doko Tomoko  
Dou Hong Sen  
Eihan Shimizu  
Endo Yoshikazu  
Fuchimoto Masataka  
Fujii Noritsuna

Fujimura Hidenori  
Fujino Chiwako  
Fujiwara Kenya  
Fukaya Nobuyuki  
Fukui Hiromichi  
Fumiaki Yamazaki  
Guan Fang  
Hara Keitarou  
Harada Ippei  
Haruyama Yukio  
Hasegawa Daisuke  
Hatake Shuhei  
Hiramatsu Toshifumi  
Honma Ryohei  
Hosokawa Masafumi  
Hosomura Tsukasa  
Imai Yasuteru  
Ishiwata Toshimitsu  
Isobe Kohei  
Ito Yosuke  
Iwamatsu Toshio  
Iwamoto Misato  
Iwao Koki  
Kajiwara Koji  
Kakiuchi Tsutomu  
Kamimura Haruchika  
Kaneta Shinichi  
Kasimu Alimujiang  
Katabira Kyoichiro  
Kawamura Kazuo  
Kawamura Keiichi  
Kochi Nobuo  
Konno Atsushi  
Kubo Mamoru  
Kumagai Kiichiro  
Kwak Youngjoo  
Li Yunqing  
Mori Masatoshi  
Murai Shunji  
Murate Naoaki  
Nagai Masahiko  
Nakagawa Masafumi  
Nakano Kazuya  
Nakano Yasutaka  
Nemoto Saori  
Noguchi Taku  
Nonaka Hideki  
Nonaka Takashi  
Nonoshita Noboru  
Ogawa Susumu  
Okazaki Katsutoshi  
Okita Makoto  
Ono Kunihiko

Oo Kyaw Sann  
Rahman Md. Mahmudur  
Saishoji Susumu  
Saito Genya  
Saito Kazuya  
Sakai Kouichi  
Sakai Takuya  
Sasaki Hisashi  
Sato Kiyotada  
Sato Koji  
Satou Mitsuru  
Sawada Haruo  
Shi Yun  
Shibasaki Ryosuke  
Shibayama Takashi  
Shikida Miho  
Shimamura Hideki  
Shimoda Haruhisa  
Sugita Akihiro  
Suzuki Hiroshi  
Suzvki Torahiko  
Tachibana Kikuo  
Tachikawa Tetsushi  
Takagishi Susumu  
Takahashi Kazuyuki  
Takao Ikeda  
Takase Yutaka  
Takeda Hiroshi  
Tateishi Ryutaro  
Terazono Junya  
Thanh Hoan Nguyen  
Thapa Rajesh Bahadur  
Tokunaga Mitsuharu  
Tsuru Kosuke  
Ujita Hidetoshi  
Urakami Hiroko  
Wang Yinan  
Wu Wenbin  
Yamada Mitsuharu  
Yamada Takahiro  
Yamada Yasuharu  
Yamagishi Hiromitsu  
Yamaguchi Hironori  
Yamane Hirofumi  
Yamazaki Fumiaki  
Yanagi Hideharu  
Yoko Hirose  
Yokoo Yasuhiro  
Yokoyama Hiroshi  
Yoshimura Mitsunori  
Yoshino Tatsuo  
Zhu Liming  
Zhu Lin

### **Jordan**

Al Hijaj Ahmed  
Khalifeh Saliem  
Waynakh Izz-eddin

### **Kenya**

Gitimu Polly  
Murage Ephantus  
Sato Jun

### **Korea**

An JongWook  
An Seung Man  
Chung Hae-Jin  
Jeong Jae Joon  
Jeong Seung-Gyu  
Kang Sungjin  
Kim Byung-Guk  
Kim Jun Chul  
Kim Seong Sam  
Lee Changno  
Lee Hyoseong  
Oh Kumhut  
Park Byung Wook  
Sa Jae-Kwang  
Seo Doo Chuh  
Seo Suyoung  
Shin Dongbin  
Shin Sungpil  
Yoo Woo Sun  
Yoon Yoon Hyoung  
Chang Hwi Jeong  
Cho HyoungSig  
Cho Woosug  
Choi Kyoungah  
Choi Myeongjin  
Han Seung-Hee  
Han You Kyung  
Hong Juseok  
Jo Myung-Hee  
Jun Chulmin  
Jung JaeHoon  
Kang Joon Mook  
Kim Dongwook  
Kim Hyeyoung  
Kim Jung Sub  
Kim Minchul  
Kim Taejung  
Kim Yong Min  
Lee Hyungsu  
Lee Impyeong  
Lee Jinduk  
Lee Jiyeong

Lee Jung-Hun  
Lee Kyu-Sung  
Lee Taeyoon  
Maghsoudi Yasser  
Min Seonghong  
Noh Myoung Jong  
Oh Sojung  
Oh Taewan  
Park Inhye  
Park Junku  
Shin Jung-il  
Sohn Hong-Gyoo  
Song Nakhyeon  
Woo Dong-Min  
Yoon Hee Cheon

### **Latvia**

Zuments Rihards Uldis

### **Malaysia**

Abdul Rahman Alias  
Adimin Mohamad Kamali  
Chung Hon Cheong  
Hashim Mazlan  
Hassan Muhammad Imzan  
Idris Nurul Hazrina  
Kong Hin Yew  
Lbrahim Ab Latif  
Linggian Anthony  
Mansor Shattri  
Mohd Noor Norzailawati  
Rahmat Mohamad Nizam  
Sharkawi Khairul Hafiz  
Taib Abdul Kadir  
Wong Yew Soon

### **Mexico**

Alivmada Paras Mureldi  
Audirac Henri  
Flores Garnica Jose G  
Gomez Raul  
Paras - Fernandez Margarita  
Ramirez Raul  
Reyes Jose Juan  
Iankov Krassimir

### **Mongolia**

Amarsaikhan Damdinsuren  
Battsengel Vandansambuu  
Battuvshin Khosbayar  
Chantsal Narantsetseg  
Chogsom Bolorchuluun  
Enkhbayar Khumbuuz

Lkhagva Emchmend  
Mijiddorj Saandari  
Ochirkhuyag Lkhamjav  
Tsolmon Renchin  
Tungalag Amar  
Tuvjargal Norovsambuu  
Yondon Uranbiley

#### **Morocco**

Benchaaboune Sabah  
Cherkaoui-Omari Mohammed  
Didovz Zineb  
El ayachi Moha  
Ettarid Mohamed  
Ragtaoui Lahoussaine  
Rouchdi Mohamed  
Souma Mohammed

#### **Myanmar**

Lwin Aung

#### **Nepal**

Bhandari Krishna Prasad  
Sharma Rabin K.  
Siddiqui Salman

#### **Netherlands**

Beerens Sjaak  
Bosiers Jan  
Chang Zheng  
Commandeur Thomas  
Darvishzadeh Roshanak  
De Bie Kees  
De Bruin Sytze  
De Leeuw Jan  
Ding Yi  
Farhadi Bansouleh Bahman  
Gommans John  
Gorte Ben  
Groot Nikée  
Haarbrink Roland  
Hussin Yousif  
Kang Zhizhong  
Karimi Nejadasl Fatemeh  
Kerle Norman  
Kok Bas  
Maarhuis Ben  
Molenaar Martien  
Ogundele Olukunle  
Oude Elberink Sander  
Paresi Christian  
Schaepman Michael  
Sharifi Ali

Shrestha Dhruva  
Si Yali  
Skidmore Andrew  
Soudarissanane Sylvie, Shoba  
Toxoepus Bert  
Tulahdar Arbind  
Van den Heuvel Frank  
Van Genderen John  
Verburg Marja  
Vosselman George  
Wang Tiejun  
Woldai Tsehaie  
Xinping Ye  
Zeng Yuan  
Zlatanova Sisi

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Chong Kon Fook Albert  
Farrier Tim  
Gao Jay  
Hanno Mohammed  
Roberts Mark

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Igbokwe Joel  
Kufoniya Olajide  
Olufunmilayo Thontteh  
Salami Tairu

#### **Norway**

Buckley Simon  
Dick Oystein B.  
Kurz Tobias  
Maalen-Johansen Ivar  
Norheim Hildegunn  
Odberg Thomas  
Stensen Olaf  
Sundheim Erik  
Wallin Hanne Gro

#### **Pakistan**

Muhammad  
Ali Asif  
Chaudhry Nadeem

#### **Philippines**

Adorador Reynaldo  
Borja Jr. Joaquin  
Castro Ofelia  
Galeon Florence  
Matugas Sandhel  
Quiambao Rowena

#### **Poland**

Berezowski Tomasz  
Borkowski Andrzej  
Borowiec Natalia  
Bujakiewicz Aleksandra  
Dabrowski Rafal  
Debski Wieslaw  
Drzewiecki Wojciech  
Ewiak Ireneusz  
Fedorowicz-Jackowski Witold  
Hejmanowska Beata  
Jasinski Janusz  
Józków Grzegorz  
Kaczynski Romuald  
Karwel Artur  
Kedzierski Michal  
Konieczny Jan  
Kowalczyk Michal  
Kryza Maciej  
Kurczynski Zdzislaw  
Majewski Mirek  
Michalowska Krystyna  
Mikrut Slawomir  
Mularz Stanislaw  
Pietrek Slawomir  
Podlasiak Piotr  
Preuss Ryszard  
Prochaska Marcin  
Pyka Krystian  
Sterenczak Krzysztof  
Szymanowski Mariusz  
Tymków Przemyslaw  
Walczykowski Piotr  
Winnicki Ireneusz  
Wisniewska Emilia  
Wolniewicz Wieslaw  
Zawieska Dorota  
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Pombo Alvaro  
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Badea Dragos  
Ionescu Ion  
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Pop Georgeta  
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**Russian Federation**

Adrov Victor  
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Blokhinov Yuri  
Cherkesov Sergey  
Chibunichev Alexander  
Guk Aleksandr  
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Lipiyaynen Konstantin  
Lvov Vladislav  
Medvedev Evgeny  
Mishchenko Yuri  
Mishin Arkadiy  
Nekhin Sergey  
Nekrasov Victor  
Okhotin Anatoly  
Samsonov Vladimir  
Sarychev Denis  
Savorskiy Victor  
Vasily Malinnikov  
Vladimir Kurkov  
Zheltov Sergey

**Saudi Arabia**

Aitken Brian  
Al Dossary Farhan  
Al Ghamdi Ibrahim  
Al Hasan Fahad  
Almugaiteeb Abdulaziz  
Alsultan Sultan  
Sheikho Kamel

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Huang Xiaojing  
Leong Keong Kwoh  
Robinson Andrew  
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**Slovenia**

Bitenc Maja  
Gvozdanovic Tomaz  
Kanjir Urska  
Konjar Miha  
Kosmatin Fras Mojca  
Lisec Anka  
Peterman Vid  
Renko Urska  
Tomazic Peter  
Urbas Ana  
Zalokar Mateja

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Cho Moses Azong  
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Roberts Wesley  
Sithole George

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Alonso Maria Concepcion  
Andrinal Garcia Maria Del Pilar  
Antequera Regalado Jose Ricardo  
Arbiol Roman  
Arozarena Antonio  
Belen Riveiro  
Blazquez Marta  
Cardenal Javier  
Colomer Josep Lluís  
Colomina Ismael  
Del Blanco Vicente  
Diez Galilea Andres  
Fernández Tomás  
Gomez Alfonso  
Hermosicus Fco. Savied  
Hernandez M. Angeles  
Ibarrola Andres  
Julia Armesto  
Kornus Wolfgang  
Lerma Jose Luis  
Malpica Jose A.  
Mata Emilio  
Miranda Jaume  
Montserrat Oriol  
Nafria David A.  
Papi Francisco  
Pedro Arias  
Pelaz Miguel  
Perez Jose Luis  
Ricardo Roorigoez Gieos Cielos  
Sergio Molina  
Talaya Julia  
Valcarcel Sanz Nuria

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Welikanna Duminda

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Abdelrahim Mohammed Elmotsar  
Shakak Nadia

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Akerman Daniel  
Furberg Dorothy  
Gajdamouiz Krtosztof

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Lin Xing  
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Vu Tuong Thuy  
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Aksakal Sultan  
Artuso Roberto  
Baltsavias Emmanuel  
Beisl Ulrich  
Bleisch Susanne  
Boesch Ruedi  
Bovet Stéphane  
Carneiro Claudio  
Christen Martin  
Demir Nusret  
Dold Juergen  
Eisenbeiss Henri  
Eugster Hannes  
Fisler Joel  
Fricker Peter  
Gonzalez Carlos Americo  
Grün Armin  
Hanusch Thomas  
Hueni Andreas  
Hughes David  
Kande Rallage  
Mahinda Upatissa Bandara  
Kellenberger Tobias Walter  
Kirchhofer Werner  
Kneubuehler Mathias  
Koelbl Otto  
Mautz Rainer  
Nebiker Stephan  
Novak David  
O'Sullivan Liam  
Papasaika Charis  
Pasquali Paolo  
Philipp Schaar  
Poli Daniela  
Püschel Hannes  
Remondino Fabio  
Rieke-Zapp Dirk  
Saks Tauno  
Sauerbier Martin  
Skaloud Jan  
Smillie Kenneth  
Sotoodeh Soheil

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Streilein André  
Vallet Julien  
Wagner Ruediger  
Wang Haijing  
Wang Zuyuan  
Wolff Kirsten  
Zogg Hans Martin  
Zuberbühler Felix  
Züblin Markus

### **Syria Arab Republic**

De Pauw Eddy F.  
Wu Weicheng

### **Tajikistan**

Khabirov Makhmudzhon  
Yatimov Akbar

### **Thailand**

Bodhibandha Rawata  
Buntilov Vladimir  
Chandraprabha Chayanee  
Chansawang Sujit  
Charukalas Benjawan  
Charupatt Thongchai  
Chen Xiaoyong  
Chinavornsirivattana Chatchai  
Keeratikasikorn Chaiyapon  
Lerk-U-Suke Sawarin  
Nakapan Sapon  
Patanakanog Boonruck  
Preeyanupab Chaisit  
Samarakoon Lal  
Santitamnont Phisan  
Satharanond Vichit  
Sudchuriat Grawan  
Teerarungsigul Suree  
Titsisaeng Kittisak  
Tmasanakrongsin Boonlert  
Uthaisri Phanu  
Vibulsresth Suvit

### **Turkey**

Abdikan Saygin  
Adli Mehmet  
Akar Irfan  
Akcay Ozgun  
Akdemir Harrillah  
Akkartal Ayda Fitriye  
Altan Orhan  
Altuntas Cihan  
Anbar Omer Alt

Askin Feyza Hale  
Avsar Emin Ozgur  
Ayazli Ismail Ercument  
Aydar Umud  
Ayday Can  
Aydin Osman  
Aydin Rukiye  
Bakici Sedat  
Balik Sanli Fusun  
Batuk Fatmagul  
Bayburt Serdar  
Birer Murat  
Buhur Sancar  
Buyuksalih Gurcan  
Demirel Hande  
Demirezen Sabri  
Demirkol Omur Engin  
Donmez Cenk  
Eker Oktay  
Erden Ismail Hakan  
Erel Metin  
Eren Kamil  
Erkek Bilal  
Gazioglu Sezgin  
Goksel Cigdem  
Goktepe Ayhan  
Gulec Korumaz Saadet Armagan  
Gumusay M.Umit  
Gurpinar Ugur Selcuk  
Iskan Havva Pervin  
Karabork Hakan  
Karacaoglu Hasan  
Karatas Salih  
Kavzoglu Taskin  
Kaya Sinasi  
Kivilcim Cemal Ozgur  
Kose Kivanc  
Kulur Sitki  
Leloglu Ugur Murat  
Maras Erdem  
Maras Hakan  
Maras Ozlem  
Meshur Mehmet Caglar  
Musaoglu Nebiye  
Mutluoglu Omer  
Nemli Gulsen  
Ormecci Cankut  
Ozbakir Buket Aysegul  
Ozen Hilal  
Pamukoglu Kadri  
Sahin Kemal  
Sahin Nihat  
Satir Onur

Seker Dursun Zafer  
Sengül Ahmet  
Sunar Filiz  
Tanik Ayse Gul  
Temiz Mahir Serhan  
Torun Abdulvahit  
Toz Gonul  
Turk Tarik  
Uysal Cihan  
Uzel Turgut  
Uzun Irfan  
Yakar Murat  
Yalgin Guler  
Yardimci-Cetin Yasemin  
Yastikli Naci  
Yildirim Omer  
Yildiz Ferruh  
Yildiz Yilmaz  
Yilmaz Hacı Murat  
Yilmaztürk Ferruh

### **Ukraine**

Dyshlyk Oleksandr  
Markov Sergiy

### **United Arab Emirates**

Al-Hanbali Nedal  
Issa Salem

### **United Kingdom**

Aplin Paul  
Aqduş Ali  
Barnes Trevor  
Blackburn George Alan  
Bryan Paul  
Cassells Craig  
Chandler James  
Chelnokov Olek Sii  
Cheng Jianquan  
Cheng Tao  
Cochrane James  
Day Matthew  
Dowman Ian  
Drummond Jane  
Fairbairn David  
Gardiner Andrew  
Gold Christopher  
Holland David  
Jackson Michael  
Kim Jung Rack  
Lavender Samantha  
Li Zhenhong  
Lin Shih-Yuan

Miller Pauline  
Mills Henny  
Mills Jon  
Morley Jeremy  
Muller Jan-Peter  
Murray Keith  
Newby Paul  
Robson Stuart  
Rova Margarita  
Sanson Graham  
Smith Martin  
Wackrow Rene  
White Davina  
Woodsford Peter  
Xu Haoyang  
Yan Hongshi

### **United States of America**

Abd-Elrahman Amr  
Abrams Michrel  
Agouris Peggy  
Al Ajlouni Rima  
Baker Mark  
Barsai Gabor  
Beaty Paul  
Becker Peter  
Beshah Belay  
Bethel Jim  
Bian Ling  
Bisio Ronald  
Budge Amelia  
Carabajal Claudia C.  
Chen Aijun  
Chen Yunhang  
Chen Zitan  
Christopherson Jon  
Clinton Nicholas  
Congalton Russell  
Cople John  
Craun John  
Cygan Mark  
Danielson Jeffrey  
DeLoatch Ivan  
Di Kaichang  
Elbaz Maxime  
Elvidge Christopher  
Finn Michael  
Fitzgibbon James  
Flint Douglas  
Foster James  
Foust Jeanne  
Fritz Lawrence W.  
Gao Peng

Gens Rudiger  
Gesch Dean  
Green Kathleen  
Grejner-Brzezinska Dorota  
Gu Yingxin  
Guo Qinghua  
Hoffmann Axel  
Huang Chengquan  
Ickes Jack  
Jeong In-seong  
Ji Wei  
Johnson Ian  
Jovanovic Veljko  
Jung Won Jo  
Kerber Arlene  
Kirk Randolph  
Kobrick Michael  
Kuzu Sinram Yasemin  
Lai Po-Lun  
Lauer Donald  
Lawrence Rick  
Lawrence William T.  
Lee George  
Lee Michael  
Li Rongxing (Ron)  
Liu Desheng  
Liu Hongxing  
Liu Qian  
Loeberbach Thomas  
Ma Zhenkui  
Madani Mostafa  
Madden Marguerite  
Matthies Larry  
McGlone Chris  
McKenna Jack  
Michishita Ryo  
Mikhail Edward  
Mikuni Alan  
Morain Stanley  
Paderes Jr. Fidel  
Plasker James  
Pu Ruiliang  
Quartararo Anthony  
Raza Ale  
Reichardt Mark  
Renslow Michael  
Roberts Andrew  
Robertson Gary  
Roth Ronald  
Ruzek Martin  
Schenk Paul  
Schenk Tony  
Seedahmed Gamal

Shan Jie  
Siu Hin Lee  
Smith Jonathan  
Spratlin Ken  
Sprigg William  
Stefanidis Anthony  
Sun Guoqing  
Sun Wanxiao  
Tighe Lorraine  
Tikalsky Bryan  
Torley James  
Toth Charles Karoly  
Townshend John  
Viswambharan Vinay  
Walker Stewart  
Walsh Gregory  
Wang Caixia  
Wang Jialing  
Wang Yandong  
Wang Younian  
Weber Jimmie  
Wegner Brian  
Weng Qihao  
Wernau Michael  
Wu Changchang  
Wu Sherman  
Xie Ming  
Xie Qingyun (Jeffrey)  
Xu Hong  
Yan Lin  
Yang Jiansheng  
Yang Weiping  
Yang Xiaojun  
Yang Xinghe  
Yao Xiaobai  
Yu Yunyue  
Zhang Chunsun  
Zhang Zheng  
Zhou Libin  
Zhu Honglei  
Zong Jia

### **Uzbekistan**

Muminov Iskandar

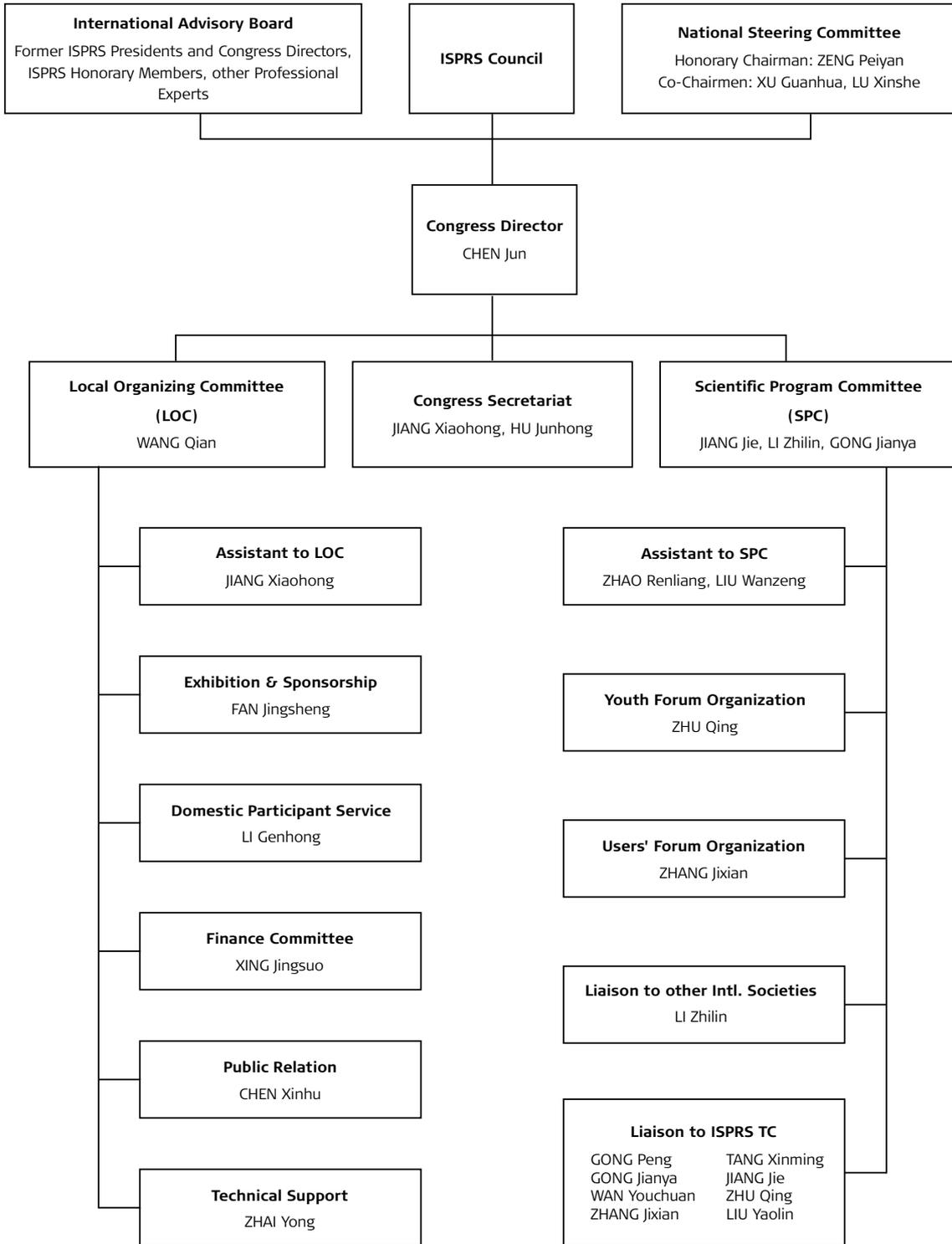
### **Viet Nam**

Nguyen Dinh Duong  
Truon Hoa Binh Th

# **ISPRS**

2008

## **ISPRS CONGRESS ORGANIZING COMMITTEE**



# **ISPRS**

2008

## **HISTORY & ISPRS PERMANENT COMMITTEES**

The International Archives of Photogrammetry, Remote Sensing  
and Spatial Information Science (IAPRSIS)

Chronology of ISPRS

The International Policy Advisory Committee (IPAC)

The International Science Advisory Committee (ISAC)

The International Committee on Remote Sensing  
of Environment (ICORSE)

The International Committee for Architectural Photogrammetry (CIPA)

# THE INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES (IAPRSIS)

The International Archives of ISPRS were founded by Eduard Dolezal in 1908 with the objective of collecting all photogrammetric and related know-how systematically. The volumes I-VII (1908/09, 1909/11, 1911/13, 1913/14, 1915/19, 1919/23, 1924/30) have or had their repository in Austria. The repository of Volume VIII's is the ITC in The Netherlands, and Volume IX is in the USA. From 1939 to 1993, the publication and distribution was the responsibility of the hosting ISPRS Member organization. Some of these Archives are still available from the ISPRS Member of the respective country. A copy of all Archives resides in the International Training Centre (ITC) in The Netherlands. In 1993, ISPRS signed a contract with RIGS Books to

serve as the official repository for post-Congress and post-Symposia sales of all Archives produced after 1993. This arrangement was designed to make the Archives more accessible from a single source without diverting revenues from the producing organizations. The Archives are now numbered 'odd' for the Congress Volumes and 'even' for Commission Symposia. Volume Parts are given the Commission number, if applicable, and are separate books. When a Volume or Part is composed of multiple books, the number of total books of the Volume or Parts is given in parentheses below. Parts for other ISPRS Conferences, Workshops or Tutorials have the Commission number followed by a C, W or T, respectively, and a sequence number.

## Addresses

### GITC bv

Nieuwedijk 43  
P.O. Box 112 8530  
AC Lemmer  
The Netherlands  
Tel: +31-514561854  
Fax: +31-514563898  
E-mail: mailbox@gitc.nl  
Url: www.gitc.nl

### ITC Librarian

Hengelosestraat 99  
P.O. Box 6  
7500 AA Enschede  
The Netherlands  
Tel: +31-53-487-4444  
Fax: +31-53-487-4400  
E-mail: koelen@itc.nl  
Url: www.itc.nl

### ISPRS Secretary General

CHEN JUN  
National Geomatics Center of China  
28 Lianhuachixi Road  
Haidian District, Beijing 100830  
PR CHINA  
Tel: +86-10-63881102  
Fax: +86-10-63881026  
E-mail: chenjun@nsdi.gov.cn;  
chenjun\_isprs@263.net

## A. Congresses

Number	Congress Venue	Country	Date	Year	Archive, Volume (Parts)
1	Vienna	Austria	24.09.-26.09.	1913	
2	Berlin	Germany	21.11.-26.11.	1926	
3	Zurich	Switzerland	05.09.-10.09.	1930	VII (1)
4	Paris	France	26.11.-01.12.	1934	VII (2)
5	Rome	Italy	29.09.-06.10.	1938	IX (3)
6	The Hague	The Netherlands	01.09.-10.09.	1948	X(2)
7	Washington	USA	03.09.-16.09.	1952	XI (3)
8	Stockholm	Sweden	17.07.-26.07.	1956	XII (4)
9	London	UK	06.09.-16.09.	1960	XIII (6)
10	Lisbon	Portugal	07.09.-19.09.	1964	XV (7)
11	Lausanne	Switzerland	08.07.-20.07.	1968	XVII (10)
12	Ottawa	Canada	24.07.-04.08.	1972	XIX (6)
13	Helsinki	Finland	11.07.-23.07.	1976	XXI (13)

Number	Congress Venue	Country	Date	Year	Archive, Volume (Parts)	
14	Hamburg	Germany	13.07.-25.07.	1980	XXIII A, B	(11)
15	Rio de Janeiro	Brazil	17.06.-29.06.	1984	XXV A (8)	B
16	Kyoto	Japan	01.07.-10.07.	1988	XXVII A, B	(13)
17	Washington	USA	02.08.-14.08.	1992	XXIX A, B	(7)
18	Vienna	Austria	09.07.-19.07.	1996	XXXI A, B	(7),J
19	Amsterdam	The Netherlands	14.07.-26.07.	2000	XXXIII	
20	Istanbul	Turkey	12.07.-23.07.	2004	XXXV	
21	Beijing	China	03.07.-11.07.	2008	XXXVII	

IAPRSIS Part A contains the proceedings and reports of the events

Part B contains the papers presented to the Congress

Part J is an Index-Volume

## B. Mid-term Commission Symposia

### *Commission I (Data Acquisition)*

1	Tokyo	Japan	1978	XXII-1
2	Canberra	Australia	1982	XXIV-1
3	Stuttgart	Germany	1986	XXVI-1
4	Manaus	Brazil	1990	XXVIII-1 (2)
5	Como	Italy	1994	XXX-1
6	Bangalore	India	1998	XXXII-1
7	Denver, Co	USA	2002	XXXIV part1
8	Marne-la-Vallee	France	2006	XXXVI part1

### *Commission II (Instruments and Methods)*

1	Bad Godesberg	Germany	1966	XVI-2
2	Munich	Germany	1970	XVIII-2
3	Paris	France	1978	XXII-2
4	Ottawa	Canada	1982	XXIV-2
5	Baltimore	USA	1986	XXVI-2
6	Dresden	Germany	1990	XXVIII-2
7	Ottawa	Canada	1994	XXX-2
8	Cambridge	UK	1998	XXXII-2
9	Xi'an	China	2002	XXXIV part2
10	Vienna	Austria	2006	XXXVI part2

**Commission III (Theory)**

1	London	UK	1971	XXIII-3
2	Stuttgart	Germany	1974	XX-3
3	Moscow	Russia	1978	XXII-3
4	Helsinki	Finland	1982	XXIV-3
5	Rovaniemi	Finland	1986	XXVI-3 (4)
6	Wuhan	China	1990	XXVIII-3
7	Munich	Germany	1994	XXX-3
8	Columbus, Ohio	USA	1998	XXXII-3
9	Graz	Austria	2002	XXXIV part3 (A+B)
10	Bonn	Germany	2006	XXXVI part3

**Commission IV (Topographic Applications)**

1	Prague	Czech Republic	1966	XVI-4
2	Paris	France	1974	XX-4
3	Ottawa	Canada	1978	XXII-4
4	Washington	USA	1982	XXIV-4
5	Edinburgh	UK	1986	XXVI-4
6	Tokyo	Japan	1990	XXVIII-4
7	Athens	Greece	1994	XXX-4
8	Boulder	USA	1995	XXX-4
9	Madison	USA	1995	W1XXX-4
10	Stuttgart	Germany	1998	W2XXXII-4
11	Ottawa	Canada	2002	XXXIV part4
12	Goa	India	2006	XXXVI part4

**Commission V (Non-Topographic Applications)**

1	Paris	France	1970	XXIII-5
2	Stockholm	Sweden	1978	XXII-5
3	York	UK	1982	XXIV-5 (2)
4	Ottawa	Canada	1986	XXVI-5
5	Zurich	Switzerland	1990	XXVIII-5
6	Melbourne	Australia	1994	XXX-5
7	Hakodate	Japan	1998	XXXII-5
8	Corfu	Greece	2002	XXXIV part5
9	Dresden	Germany	2006	XXXVI part5

**Commission VI (Other Professional Matters)**

1	Krakow	Poland	1978	XXII-6
2	Mainz	Germany	1982	XXIV-6
3	Badagry	Nigeria	1986	XXVI-6
4	Rhodes	Greece	1990	XXVIII-6
5	Beijing	China	1994	XXX-6
6	Bandung	Indonesia	1998	XXXII-6
7	Sao Jose dos Campos	Brazil	2002	XXXIV part6
8	Tokyo	Japan	2006	XXXVI part6

***Commission VII (Interpretation Remote Sensing Applications)***

1	Delft	The Netherlands	1962	XIV-7
2	Paris	France	1966	XVI-7
3	Dresden	Germany	1970	XVIII-7 (2)
4	Banff	Canada	1974	XX-7 (2)
5	Freiburg	Germany	1978	XXII-7 (3)
6	Toulouse	France	1982	XXIV-7 (2)
7	Enschede	The Netherlands	1986	XXVI-7 (3)
8	Victoria	Canada	1990	XXVIII-7 (2)
9	Rio de Janeiro	Brazil	1994	XXX-7
10	Budapest	Hungary	1998	XXXII-7
11	Hyderabad	India	2002	XXXIV part7 (A+B)
12	Enschede	The Netherlands	2006	XXXVI part7

***Commission VIII (Remote Sensing Applications and Policies)***

1	Haifa	Israel	2006	XXXVI part8
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# CHRONOLOGY OF ISPRS

## **Austrian Society for Photogrammetry**

founded May 3, 1907

## **German Society for Photogrammetry**

founded October 5, 1909 (officially certified 1911)

## **International Society for Photogrammetry**

founded July 4, 1910

## **International Society for Photogrammetry and Remote Sensing**

renamed July 15, 1980

### **Presidents**

1910 – 1913	E. Dolezal, Austria
1913 – 1926	E. Dolezal, Austria
1926 – 1930	O. Eggert, Germany
1930 – 1934	G. Perrier, France
1934 – 1938	G. Cassinis, Italy
1938 – 1948	W. Schermerhorn, The Netherlands
1948 – 1952	O. S. Reading, USA
1952 – 1956	P. Mogensen, Sweden
1956 – 1960	R. Ll. Brown, Great Britain
1960 – 1964	A. Paes Clemente, Portugal
1964 – 1968	H. Harry, Switzerland
1968 – 1972	L. Solaini, Italy
1972 – 1976	S. G. Gamble, Canada
1976 – 1980	J. Cruset, France
1980 – 1984	F. J. Doyle, USA
1984 – 1988	G. Konecny, F. R. Germany
1988 – 1992	K. Torlegard, Sweden
1992 – 1996	S. Murai, Japan
1996 – 2000	L. W. Fritz, USA
2000 – 2004	J. Trinder, Australia
2004 – 2008	I. Dowman, UK
2008 – 2012	M. O. Altan, Turkey

### **Council**

#### **1910 – 1913**

President: E. Dolezal, Austria

#### **1913 – 1926**

President: E. Dolezal, Austria

#### **1926 – 1930**

President: O. Eggert, Germany  
 Honorary President: E. Dolezal, Austria  
 Secretary General: O. Korner, Germany  
 Congress Director: F. Baeschlin, Switzerland

#### **1930 – 1934**

President: G. Perrier, France  
 Honorary President: E. Dolezal, Austria  
 Secretary General: H. Roussilhe, France  
 Treasurer: M. Labussiere, France  
 Council Members: H. von Langendorff, Germany  
 F. Baeschlin, Switzerland  
 J. Torroja, Spain  
 K. Buchholtz, Latvia

#### **1934 – 1938**

President: G. Cassinis, Italy  
 Honorary President: E. Dolezal, Austria  
 Secretary General: M. Tucci, Italy  
 Treasurer: P. Dore, Italy  
 Council Members: H. von Langendorff, Germany  
 J. Maury, Belgium  
 G. Perrier, France  
 K. Weigel, Poland

#### **1938 – 1948**

President: W. Schermerhorn,  
The Netherlands  
 Secretary General: B. Scherpier,  
The Netherlands  
 Treasurer: C. A. von Frytag Drabbe,  
The Netherlands  
 Council Members: G. Perrier, France  
 H. von Langendorff, Germany  
 O. S. Reading, USA  
 G. Cassinis, Italy

#### **1948 – 1952**

President: O. S. Reading, USA  
 Secretary General: E. S. Massie, Jr., USA  
 Treasurer: W. C. Cude, USA  
 Council Members: F. Baeschlin, Switzerland  
 G. Cassinis, Italy  
 R. Janicot, France  
 W. Schermerhorn,  
The Netherlands

#### **1952 – 1956**

President: P. Mogensen, Sweden  
 Secretary General: P. O. Fagerholm, Sweden  
 Treasurer: S. G. Moeller, Sweden  
 Council Members: R. Ll. Brown, Great Britain  
 R. Janicot, France  
 O. S. Reading, USA

**1956 – 1960**

President: R. Ll. Brown, Great Britain  
 Secretary General: R. T. L. Rogers, Great Britain  
 Treasurer: J. E. Odle, Great Britain  
 Council Members: P. O. Fagerholm, Sweden  
 R. Janicot, France  
 O. S. Reading, USA  
 W. Schermerhorn,  
 The Netherlands

**1960 – 1964**

President: A. Paes Clemente, Portugal  
 Secretary General: A. D. Calvario, Portugal  
 (1960-1961)  
 M. F. Alexandre, Portugal  
 (1961-1964)  
 Treasurer: A. Santos Silva, Portugal  
 Vice President: R. Ll. Brown, Great Britain  
 Council Members: P. O. Fagerholm, Sweden  
 H. Harry, Switzerland  
 G. D. Whitmore, USA

**1964 – 1968**

President: H. Harry, Switzerland  
 Secretary General: W. Bachmann, Switzerland  
 Treasurer: E. Huber, Switzerland  
 Vice President: P. O. Fagerholm, Sweden  
 Council Members: A. Paes Clemente, Portugal  
 S. G. Gamble, Canada  
 L. Solaini, Italy

**1968 – 1972**

President: L. Solaini, Italy  
 Secretary General: G. C. Tewinkel, USA  
 Treasurer: S. G. Gamble, Canada  
 Vice President: W. Bachmann, Switzerland  
 Council Members: L. Skladal, Czechoslovakia  
 R. S. Halonen, Finland

**1972 – 1976**

President: J. Cruset, France  
 Secretary General: F. Doyle, USA  
 Congress Director: R. S. Halonen, Finland  
 (1972-1975)  
 K. G. Lofstrom, Finland  
 (1975-1976)  
 First Vice President: G. C. Tewinkel, USA  
 Second Vice President: T. Maruyasu, Japan  
 Treasurer: A. J. van der Weele,  
 The Netherlands

**1976 – 1980**

President: J. Cruset, France  
 Secretary General: F. Doyle, USA  
 Congress Director: G. Konecny, F.R. Germany  
 First Vice President: S. G. Gamble, Canada  
 (1976-1977)  
 E. O. Dahle, Norway  
 (1977-1980)  
 Second Vice President: P. Fagundes, Brazil  
 Treasurer: A. Savolainen, Finland

**1980 – 1984**

President: F. Doyle, USA  
 Secretary General: G. Konecny, F.R. Germany  
 Congress Director: P. Fagundes, Brazil  
 First Vice President: G. Zarzycki, Canada  
 Second Vice President: I. Antipov, Soviet Union  
 Treasurer: H. Jerie, The Netherlands

**1984 – 1988**

President: G. Konecny, F. R. Germany  
 Secretary General: K. Torlegard, Sweden  
 Congress Director: S. Murai, Japan  
 First Vice President: G. Zarzycki, Canada  
 Second Vice President: J. Trinder, Australia  
 Treasurer: A. J. van der Weele,  
 The Netherlands

**1988 – 1992**

President: K. Torlegard, Sweden  
 Secretary General: S. Murai, Japan  
 Congress Director: L. W. Fritz, USA  
 First Vice President: G. Konecny, Germany  
 Second Vice President: I. Katzarsky, Bulgaria  
 Treasurer: K. Atkinson, UK

**1992 – 1996**

President: S. Murai, Japan  
 Secretary General: L. W. Fritz, USA  
 Congress Director: K. Kraus, Austria  
 First Vice President: K. Torlegard, Sweden  
 Second Vice President: A. Gruen, Switzerland  
 Treasurer: J. Trinder, Australia

**1996 – 2000**

President: L. W. Fritz, USA  
 Secretary General: J. Trinder, Australia  
 Congress Director: K. J. Beek, The Netherlands  
 First Vice President: S. Murai, Japan  
 Second Vice President: M. Barbosa, Brazil  
 Treasurer: H. Ruther, South Africa

## 2000 – 2004

President:	J. Trinder, Australia
Secretary General:	I. Dowman, UK
Congress Director:	M. Orhan Altan, Turkey
First Vice President:	L. W. Fritz, USA
Second Vice President:	G. Begni, France
Treasurer:	A. Peled, Israel

## 2004 – 2008

President:	I. Dowman, UK
Secretary General:	M. O. Altan, Turkey
Congress Director:	J. Chen, China
First Vice President:	J. Trinder, Australia
Second Vice President:	E. Baltsavias, Switzerland
Treasurer:	S. Morain, USA

## 2008 – 2012

President:	M. O. Altan, Turkey
Secretary General:	J. Chen, China
Congress Director:	C. Ogleby, Australia
First Vice President:	I. Dowman, UK
Second Vice President:	A. Peled, Israel
Treasurer:	M. Renslow, USA

## Honorary President

E. Dolezal	1926-1955
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## Honorary Members

E. von Orel,	Austria	1938 – 1941
G. Poivilliers,	France	1948 – 1968
F. Baeschlin,	Switzerland	1952 – 1961
U. Nistri,	Italy	1952 – 1962
O. S. Reading,	USA	1952 – 1984
E. Santoni,	Italy	1952 – 1970
W. Scherm-erhorn,	The Netherlands	1952 – 1986
W. Bauersfeld,	Germany	1956 – 1959
G. Cassinis,	Italy	1956 – 1964
H. Harry,	Switzerland	1956 – 1973
L. Hurault,	France	1956 – 1973
P. Mogensen,	Sweden	1956 – 1969
R. Ll. Brown,	Great Britain	1960 – 1983
K. Schwidefsky,	F.R. Germany	1972 – 1986
E. H. Thompson,	UK	1972 – 1976
G. de Masson d'Autume,	France	1976 – 2006
K. G. Lofstrom,	Finland	1976 – 1984
J. Cruset,	France	1980 – 1994
L. Solaini,	Italy	1980 – 1989
P. Fagundes,	Brazil	1984 – 1996
F. J. Doyle,	USA	1988
A. Savolainen,	Finland	1988
Z. Wang,	China	1988 – 2002
G. Konecny,	Germany	1992
F. Ackermann,	Germany	1996

S. Murai,	Japan	2000
L.W. Fritz.,	USA	2004
A. Gruen,	Switzerland	2008
J.Trinder	Australia	2008

## Technical Commissions

### 1926 – 1930

1. Terrestrial Photogrammetry - H. Dock, Austria
2. Rectification - L. van Cost, Belgium
3. Stereo-Aerial Photogrammetry - O. Eggert, Germany
4. Aerial Triangulation - F. Baeschlin, Switzerland
5. X-ray Measurements - A. Hasselwander, Germany
6. Architectural and Engineering Photogrammetry - J. Torroya, Spain
- 6b. Photogrammetry for Flying Objects - Th.Ween, Norway
7. Economy - A. Kruttschnitt, Hungary
8. Instruments, Optics, Norms - G. Cassinis, Italy
9. Plates and Films - A. von Odencrants, Sweden
10. Education at Universities and Research Institutes - A. Buchholtz, Latvia
- 10b. Training of Technical Personnel - A. Ivancianu, Romania
11. Photographic Airplanes - K. Weigel, Poland
- 11b. Navigation - J. Petrik, Czechoslovakia

### 1930 – 1934

1. Terrestrial Photogrammetry – F. Baeschlin, Switzerland
2. Aerial Photography – M. Labussiere, France
3. Mapping – H. Von Langendorff, Germany
4. Various Applications – E. Dolezal, Austria
- 4b. X-Ray Photogrammetry – A. Hasselwander, Germany
5. Industrial Applications & Economy – K. Weigel & E. Warchalowski, Poland
6. Education, Bibliography, Terminology – A. Medyev & K. v. Oltay, Hungary

### 1934 – 1938

1. Ground Photography - F. C. Baeschlin, Switzerland
2. Air Photography - H. H. Blee, USA
3. Aerial Triangulation - W. Schermerhorn, The Netherlands
4. Plotting of Air Photographs - H. v. Langendorff, Germany
5. Various Applications of Photogrammetry - E. Dolezal, Austria
6. X-ray Photogrammetry and Close-Up Photogrammetry - C. Sannie, France
7. Industrial Organization of Photogrammetry and Statistics of Works - G. Cassinis, Italy
8. Teaching, Terminology, Bibliography - K. v. Oltay, Hungary

### 1938 – 1948

1. Ground Photogrammetry and its Applications - O. S. Reading, USA
2. Air Photography - M. Zeller, Switzerland
3. Preliminary Operations on the Ground for Aerial

- Photogrammetry - F. Baeschlin, Switzerland  
 4. Plotting of Air Photographs - P. Tham, Sweden  
 5. Geodetical Applications of Photogrammetry - G. Poivilliers, France  
 6. Application of Photogrammetry to Biology and Medicine - J. Didier & Coliez, France  
 7. Industrial Organization of Photogrammetry and Statistics - G. Cassinis, Italy  
 8. Teaching and Bibliography - G. Harding, USA

#### 1948 – 1952

- I. Photography & Navigation - L. E. Howlett, Canada  
 II. Plotting Machines & Instruments - G. Poivilliers, France  
 III. Aerial Triangulation - P. Wiser, Belgium  
 IV. Mapping from Photographs - G. Cassinis, Italy  
 V. Special Applications of Photogrammetry - B. Hallert, Sweden  
 VI. Education, Terminology, Bibliography, History, Polyglot Dictionary - K. Lego, Austria - K. Neumaier  
 VII. Photo-Interpretation - R. N. Colwell, USA

#### 1952 – 1956

- I. Photography & Navigation - J. Cruset, France  
 II. Plotting, Theory and Instruments - W. K. Bachmann, Switzerland  
 III. Aerial Triangulation - P. Wiser, Belgium  
 IV. Mapping from Photographs - G. S. Andrews, Canada  
 V. Non-Topographic Photogrammetry - G. Boaga, Italy  
 VI. Education, Terminology, Bibliography - K. Neumaier, Austria  
 VII. Photo Interpretation - C. G. Coleman, USA

#### 1956 – 1960

- I. Photography and Navigation - J. Cruset, France  
 II. Plotting, Theory and Instruments - F. Vanderheyden, Belgium  
 III. Aerial Triangulation - G. Cassinis, Italy  
 IV. Mapping from Photographs - H. Harry, Switzerland  
 V. Special Applications of Photogrammetry - R. Burkhardt, F.R. Germany  
 VI. Education, Terminology and Bibliography - A. Barvir, Austria  
 VII. Photo Interpretation - C. G. Coleman, USA

#### 1960 – 1964

- I. Photography and Navigation - G. C. Brock, Great Britain  
 II. Plotting, Theory and Instruments - A. L. Nowicki, USA  
 III. Aerial Triangulation - G. de Masson d'Autume, France  
 IV. Mapping from Photographs - E. F. Gigas, F.R. Germany  
 V. Special Applications of Photogrammetry - K. Hubeny, Austria  
 VI. Education, Terminology and Bibliography - R. S. Halonen, Finland  
 VII. Photo Interpretation - L. U. Sitte

#### 1964 – 1968

- I. Photography and Navigation - R. W. Fish, Great Britain

- II. Theory, Methods, Instruments of Restitution - K. Schwidofsky, F.R. Germany  
 III. Aerial Triangulation - G. C. Tewinkel, USA  
 IV. Mapping from Photographs - L. Skladal, Czechoslovakia  
 V. Non-Topographic Photogrammetry - T. Maruyasu, Japan  
 VI. Education, Terminology and Bibliography - W. Sztompke, Poland  
 VII. Photo Interpretation - R. Chevallier, France

#### 1968 – 1972

- I. Aerial Photography and Navigation - M. B. Scher, USA  
 II. Plotting Theory, Methods and Instruments - H. Decker, F.R. Germany  
 III. Aerial Triangulation - E. Thompson, Great Britain  
 IV. Application of Photogrammetry to the Earth Surface Representation - A. J. van der Weele, The Netherlands  
 V. Special Applications of Photogrammetry - M. Carbonnell, France  
 VI. Bibliography, Teaching, Terminology - P. Gal, Czechoslovakia  
 VII. Photo Interpretation - A. Reinhold, German D.R.

#### 1972 – 1976

- I. Primary Data Acquisition - E. Welander, Sweden  
 II. Instrumentation for Data Reduction - G. Inghilleri, Italy  
 III. Mathematical Analysis of Data - F. Ackermann, F.R. Germany  
 IV. Topographic and Cartographic Applications - G. Ducher, France  
 V. Non-topographic Photogrammetry - H. M. Karara, USA  
 VI. Economic, Professional and Educational Aspects of Photogrammetry - W. Sztompke, Poland  
 VII. Interpretation of Data - L. Sayn-Wittgenstein, Canada

#### 1976 – 1980

- I. Primary Data Acquisition - I. Nakajima, Japan  
 II. Instrumentation for Data Reduction - M. Baussart, France  
 III. Mathematical Analysis of Data - I. Antipov, USSR  
 IV. Topographic and Cartographic Applications - J. M. Zarzycki, Canada  
 V. Non-Topographic Photogrammetry - K. Torlegard, Sweden  
 VI. Economic, Professional and Educational Aspects of Photogrammetry - Z. Sitek, Poland  
 VII. Interpretation of Data - G. Hildebrandt, F.R. Germany

#### 1980 – 1984

- I. Primary Data Acquisition - J. C. Trinder, Australia  
 II. Instrumentation for Data Reduction - Z. Jaksic, Canada  
 III. Mathematical Analysis of Data - E. Kilpela, Finland  
 IV. Topographic and Cartographic Applications - R. Mullen, USA  
 V. Non-Topographic Photogrammetry - J. W. Gates, UK  
 VI. Economic, Professional and Educational Aspects of Photogrammetry and Remote Sensing - J. Hothmer, F.R.

Germany

VII. Interpretation of Data – L. Laidet, France

#### **1984 – 1988**

I. Primary Data Acquisition - P. Hartl, Germany

II. Instrumentation for Data Reduction and Analysis -  
L. W. Fritz, USA

III. Mathematical Analysis of Data - E. Kilpela, Finland

IV. Cartographic and Data Bank Applications of  
Photogrammetry and Remote Sensing - A. MacDonald, UK

V. Other Non-Cartographic Applications of Photogrammetry  
and Remote Sensing - V. Kratky, Canada

VI. Economic, Professional and Educational Aspects of  
Photogrammetry and Remote Sensing - O. Adekoya,  
Nigeria

VII. Interpretation of Photographic and Remote Sensing  
Data - K. J. Beek, The Netherlands

#### **1988 – 1992**

I. Primary Data Acquisition - M. Barbosa, Brazil

II. Systems for Data Processing and Analysis -  
K. Szangolies, German Dem. Rep.

III. Mathematical Analysis of Data - Li Deren, PR China

IV. Cartographic and Data Base Applications of  
Photogrammetry and Remote Sensing - T. Hirai, Japan

V. Close Range Photogrammetry and Machine Vision - A.  
Gruen, Switzerland

VI. Economic, Professional and Educational Aspects of  
Photogrammetry & Remote Sensing - J. Badekas, Greece

VII. Interpretation of Photographic and Remote Sensing  
Data - F. Hegyi, Canada

#### **1992 – 1996**

I. Sensors, Platforms and Imagery - L. Mussio, Italy

II. Systems for Data Processing, Analysis and  
Representation - M. Allam, Canada

III. Theory and Algorithms - H. Ebner, Germany

IV. Mapping and Geographic Information Systems -  
R. Welch, USA

V. Close-Range Techniques and Machine Vision - J. Fryer,  
Australia

VI. Economics, Professional Matters and Education – Li  
Deren, PR. China

VII. Resource and Environmental Monitoring - R. P. Da  
Cunha, Brazil

#### **1996 – 2000**

I. Sensors, Platforms and Imagery - G. Joseph, India

II. Systems for Data Processing, Analysis and  
Representation -I. Dowman, UK

III. Theory and Algorithms - T. Schenk, USA

IV. Mapping and Geographic Information Systems -  
D. Fritsch, Germany

V. Close-Range Techniques and Machine Vision -

H. Chikatsu, Japan

VI. Education and Communications - K. Villanueva,  
Indonesia

VII. Resource and Environmental Monitoring -  
G. Remetey - Fulopp, Hungary

#### **2000 – 2004**

I. Sensors, Platforms and Imagery - Stanley A. Morain, USA

II. Systems for Data Processing, Analysis and  
Representation - Jun Chen, China

III. Theory and Algorithms - Franz Leberl, Austria

IV. Mapping and Geographic Information Systems -  
Costas Armenakis, Canada

V. Close-Range Techniques and Machine Vision - Petros  
Patiás, Greece

VI. Education and Communications - Tania Maria Sausen, Brazil

VII. Resource and Environmental Monitoring -  
R. R. Navalgund, India

#### **2004 – 2008**

I. Image Data Acquisition - Sensors And Platforms –  
A. Baudoin, France

II. Theory and Concepts of Spatio-Temporal Data  
Handling and Information – W. Kainz, Austria

III. Photogrammetric Computer Vision and Image  
Analysis - W. Forstner, Germany

IV. Geo-Databases and Digital Mapping - S. Nayak, India

V. Close-Range Sensing: Analysis and Applications -  
H.G. Maas, Germany

VI. Education and Outreach - K. Cho, Japan

VII. Thematic Processing, Modeling and Analysis  
of Remotely Sensed Data - J.L. van Genderen, The  
Netherlands

VIII. Remote Sensing Applications and Policies -  
A. Peled, Israel

#### **2008 – 2012**

I. Image Data Acquisition - Sensors and Platforms -  
N. El-Sheimy, Canada

II. Theory and Concepts of Spatial Information Science -  
W. Shi, Hong Kong, China

III. Photogrammetric Computer Vision and Image  
Analysis - N. Paparoditis, France

IV. Geodatabases and Digital Mapping - M. Madden, USA

V. Close-Range Sensing: Analysis and Applications -  
J. Mills, UK

VI. Education and Outreach - M. Molenaar, The  
Netherlands

VII. Thematic Processing, Modeling and Analysis of  
Remotely Sensed Data - W. Wagner, Austria

VIII. Remote Sensing Applications and Policies-  
H. Shimoda, Japan

## THE INTERNATIONAL POLICY ADVISORY COMMITTEE (IPAC)

The role of IPAC is to advise Council on issues relevant to Society interaction with intergovernmental organizations, especially those that relate to ISPRS collaborative activities with various elements of the United Nations, the International Council of Science (ICSU), the Committee on Peaceful Uses of Outer Space (COPUOS), the Committee on Earth Observation Satellites (CEOS), and other similar organizations such as UATI, IUSS, ISO, World Bank, etc.

### IPAC Terms of Reference

- Identify, coordinate and prioritize issues on which ISPRS should have a public policy.

- Provide the ISPRS Council with early warning of relevant international policy issues and recommend spokespersons on these issues.

- Provide advice for and with the ISPRS Council on policy towards international organizations in which ISPRS is represented (COPUOS, ICSU, CEOS, UATI, etc.).

- Collaborate with the ISPRS Council to provide policy advice when requested by international bodies.

- Provide advice to, and coordinate inputs of, ISPRS Commissions and Working Groups on international policy issues.

- Ensure any advocacy stances are fair and in the best interests of all segments of the ISPRS membership.

## THE INTERNATIONAL SCIENCE ADVISORY COMMITTEE (ISAC)

The ISAC has been established to support the Council and the ISPRS General Assembly in identifying and addressing important S&T trends which impact the scope of the ISPRS Commissions and the activities which should be addressed by ISPRS Working Groups. The ISAC is to ensure that ISPRS S&T activities are in proper balance and cover the breadth of the Society's S&T mission.

### ISAC Terms of Reference

- Identify and prioritize scientific and technologic (S&T) trends which will impact the S&T activities of the Society and recommend actions to ISPRS Council.

- Facilitate excellence in scientific research and development and the use of proper and appropriate technology by evaluating and refining S&T Resolutions proposed in advance by ISPRS Member Organizations and Commissions for approval by the quadrennial ISPRS General Assembly.

- Collaborate with the ISPRS Council to formulate Resolutions for ISPRS General Assembly approval which will ensure that ISPRS is at the forefront of the S&T in the photogrammetry, remote sensing and spatial information sciences and covers the full breadth of the Society's mission.

- Review proposed Working Groups Terms of Reference with Council and identify S&T gaps and overlaps and recommend corresponding fills and consolidations.

- Evaluate inputs recommended for changing the overall scope and direction of S&T activities in the Society and advise Council accordingly.

- Suggest collaborative S&T activities with other international societies and intergovernmental bodies to foster cooperation on the inter-disciplinary boundaries.

- Propose worthy candidates for recognition and awards.

# THE INTERNATIONAL COMMITTEE ON REMOTE SENSING OF ENVIRONMENT (ICORSE)

The ICORSE has been established to foster the use of remote sensing to address priority issues of the environment. ICORSE will convene a biannual conference in alternating years with the ISPRS Commission Symposia. The conference will focus on remote sensing of the environment and will bring together scientists, technologists and environmental users of remotely sensed data. In conformance with ISPRS Guidelines, (a) the conference proceedings will be made available to the ISPRS community as part of the continuing series of the International Archives of The Photogrammetry, Remote Sensing and Spatial Information Sciences (IAPRSSIS), and (b) the committee will provide an annual report on the state of remote sensing of environment for publication in ISPRS Highlights.

## **ICORSE Terms of Reference**

- Identify issues and topics associated with applications

and scientific studies of the environment and enlist leading spokespersons to organize sessions and/or workshops for the biannual International Symposium on Remote Sensing of Environment

- Produce proceedings of the biannual conference and provide an annual written report on the state of remote sensing of environment

- Propose Resolutions to the ISPRS Council regarding remote sensing of environment for approval by the ISPRS General Assembly

- Collaborate closely with ISPRS Commissions to enhance remote sensing activities and coordinate event scheduling through mutual agreement

- Nominate candidates for the Editorial Review Board and encourage submission of worthy papers for publication in the ISPRS Journal of Photogrammetry and Remote Sensing

- Propose worthy candidates for recognition and awards

# THE INTERNATIONAL COMMITTEE FOR ARCHITECTURAL PHOTOGRAMMETRY (CIPA)

## MEMBERS OF THE EXECUTIVE BOARD OF CIPA

President:	Cliff Ogleby	Ordinary Members from ICOMOS
Vice Presidents:	Klaus Hanke	Mario Santana Quintero
	Mario Santana Quintero	Michael Doneus
Secretary General:	Michael Doneus	Cliff Ogleby
Treasurer:	Pierre Grussenmeyer	Ana Almagro-Vidal
Ordinary Members from ISPRS		
	Pierre Grussenmeyer	Society Delegates
	Klaus Hanke	Giora Solar (ICOMOS)
	Petros Patias	Fabio Remondino (ISPRS)
	Gabriele Fangi	
	Heinz Ruther	

## Objectives and Activities

The International Committee for Documentation of Cultural Heritage (CIPA) is one of the international committees of ICOMOS (International Council on Monuments and Sites) and it was established in collaboration with ISPRS (International Society of Photogrammetry and Remote Sensing).

Its main purpose is the improvement of all methods for surveying of cultural monuments and sites, specially by synergy effects gained by the combination of methods under special consideration of photogrammetry with all its aspects, as an important contribution to recording and perceptual monitoring of cultural heritage, to preservation and restoration of any valuable architectural or other cultural monument, object or site, as a support to architectural, archaeological and other art-historical research.

ISPRS and ICOMOS created CIPA because they both believe that a monument can be restored and protected only when it has been fully measured and documented and when its development has been documented again and again, i.e. monitored, also with respect to its environment, and stored in proper heritage information and management systems.

In order to accomplish this mission, CIPA will:

- establish links between architects, historians,

archaeologists, conservationists, inventory experts and specialists in photogrammetry and remote sensing, spatial information systems, CAAD, computer graphics and other related fields;

- organise and encourage the dissemination and exchange of ideas, knowledge, experience and the results of research and development (CIPA Expert Groups and CIPA Mailing List);

- establish contacts with and between the relevant institutions and companies which specialise in the execution of photogrammetric surveys or in the manufacture of appropriate systems and instruments (Board of Sustaining Members);

- initiate and organise conferences, symposia, specialised colloquia, workshops, tutorials, practical sessions and specialised courses (CIPA Events);

- initiate and co-ordinate applied research and development activities (CIPA Working Groups);

- undertake the role of scientific and technical expert for specific projects (CIPA Expert Advisory Board);

- organise a network of National and Committee Delegates;

- submit an annual report on its activities to the ICOMOS Bureau (Secretary General) and the ISPRS Council (Secretary General) and publish it in the internet (Annual Reports);

- publish also its Structure, its Statutes and Guidelines in the internet.

# **ISPRS**

2008

## **LEGISLATIVE DOCUMENTS**

Statutes

Bylaws

Awards Policy

Awards Nomination Deadlines

Awards Nomination Committee

The Brock Gold Medal Award

The Otto Von Gruber Award

The U.V. Helava Award

The Giuseppe Inghilleri Award

The Eduard Dolezal Award

The Schwidefsky Medal

The Schermerhorn Award

The Samuel Gamble Award

The Wang Zhizhuo Award

The Karl Kraus Medal

Guidelines - Candidates for Members of the Council

Guidelines - Members Planning to Host an ISPRS Congress

Guidelines for Hosting a Technical Commission

Guidelines for Conducting a Working Group

Terms of Reference for Sustaining Members

# STATUTES

## INTERNATIONAL SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

### **STATUTE I - Name and Mission**

The International Society for Photogrammetry and Remote Sensing (hereinafter referred to as the Society) which was founded in Vienna, Austria in 1910 as 'Internationale Gesellschaft für Photogrammetrie', is a non-governmental international organization, devoted to the development of international cooperation for the advancement of knowledge, research, development, education and training in the photogrammetry, remote sensing and spatial information sciences, their integration and applications, to contribute to the well-being of humanity and the sustainability of the environment.

### **STATUTE II - Definitions**

Photogrammetry and Remote Sensing is the art, science, and technology of obtaining reliable information from non-contact imaging and other sensor systems about the Earth and its environment, and other physical objects and processes through recording, measuring, analyzing and representation.

Spatial Information Science is the art, science, and technology of obtaining reliable spatial, spectral and temporal relationships between physical objects, and of processes for integration with other data for analysis, portrayal and representation, independently of scale.

### **STATUTE III - Qualifications**

The Society pursues its aims without any discrimination on grounds of race, religion, nationality, or political philosophy.

### **STATUTE IV - Activities**

To achieve its aims, the Society shall:

- (a) facilitate excellence in research and development and the proper use of appropriate technology in the photogrammetry, remote sensing and spatial information sciences, as well as the development of standards;
- (b) initiate and coordinate research in the fields of the photogrammetry, remote sensing and spatial information sciences by creating Technical Commissions and Working Groups concerned with pertinent aspects of the photogrammetry, remote sensing and spatial information sciences;
- (c) convene international Congresses, symposia and other meetings, with lectures, communications, discussions, and as appropriate, tutorials, exhibitions,

technical visits, and social events;

(d) ensure wide international circulation of the results of research and the records of discussion by the publication of The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, which shall form the record of Congresses and Symposia, and other scientific meetings of the Society;

(e) publish and circulate an international journal, a bulletin, and other communications relevant to the interest of the Society and the community at large;

(f) stimulate the formation of national and regional Societies of the photogrammetry, remote sensing and spatial information sciences and promote exchanges between such Societies;

(g) encourage interaction of the Society and its members with the community at large, including the publication and exchange of scientific papers and journals by, and among, its national and regional Societies;

(h) encourage recognition and administer awards to honor the achievements of individuals or groups.

(i) represent the photogrammetry, remote sensing and spatial information sciences in relevant international forums;

(j) promote and facilitate education, training, and technology transfer of the photogrammetry, remote sensing and spatial information sciences;

(k) promote other appropriate actions to enhance the Society's mission.

### **STATUTE V - Cooperation with Other International Organizations**

The Society should cooperate with:

- (a) international and regional institutions or organizations concerned with photogrammetry, remote sensing, image analysis, spatial information sciences, land survey, geodesy, cartography, and other relevant disciplines;
- (b) inter-governmental bodies of the United Nations and other relevant, international policy-making organizations.

### **STATUTE VI - Membership**

The types of membership in the Society are:

- Ordinary Members
- Associate Members
- Regional Members
- Sustaining Members
- Honorary Members
- Fellows

1. An Ordinary Member shall be the single organization of a country, or a geographic region thereof having an independent budget, which should represent the whole community of photogrammetry, remote sensing and spatial information specialists in the country or region.

(a) An Ordinary Member shall be responsible to the Society for the proper discharge of all the duties of membership including specifically:

- participating in the scientific work of the Society, including active participation in Working Groups and Commissions;
- prompt payment of Membership subscription fee;
- actively participating in the decisions of the General Assembly;
- appointing Correspondents to the Technical Commissions and registering them with the Secretary General;
- striving to provide equitable national representation for all photogrammetric, remote sensing and spatial information specialists in its country or region;
- serving as national focal point for distribution of ISPRS information to their members;
- submitting periodic reports and news for publication in the Society's bulletin, and producing a quadrennial report for the Congress;
- demonstrating active representation of the whole of their membership in their country or region;
- encouraging interdisciplinary cooperation in scientific and technologic activities, and establishing links with relevant groups;
- forming journals and registering them with the Secretary General.

(b) Normally the Ordinary Member organization of a country shall be a national, formally constituted, representational Society. In the absence of such a Society the Ordinary Member may be:

- an association of societies each having the advancement of the photogrammetry, remote sensing and spatial information sciences among its principal objectives;
- the principal Scientific Academy of a country or its National Research Council;
- or failing these, any other institution or association of institutions whether governmental or non-governmental concerned with the sciences of photogrammetry, remote sensing and spatial information.

(c) Different categories of Ordinary Members shall be established to reflect the use of the photogrammetry, remote sensing and spatial information sciences, and the number of specialists in the organization.

2. An Associate Member shall be an organization which represents a community of photogrammetrists and/or remote sensing specialists and/or spatial information specialists in a country, and which has a strong interest in participating in the Society's affairs, and which is not

represented by the Ordinary Member organization of the country.

An Associate Member shall be responsible to the Society for the proper discharge of all the duties of membership including specifically:

- participating in the scientific work of the Society, including active participation in Working Groups and Commissions;
- prompt payment of Membership subscription fee;
- promoting ISPRS activities;
- participating in the discussions of the General Assembly;
- serving as a focal point for distribution of ISPRS information to their members;
- submitting periodic reports and news for publication in the Society's bulletin;
- stimulating the establishment of appropriate means of communication.

3. A Regional Member shall be a multi-national association of photogrammetry and/or remote sensing and/or spatial information science organizations established for the purpose of considering questions of common interest, promoting regional cooperation, convening regional conferences, etc.

4. Sustaining Members contribute to the financial support of the Society and shall be individuals, organizations, institutions, or agencies who provide hardware, software, systems and/or services, in the fields of photogrammetry and/or remote sensing and/or spatial information, and/or who are engaged in research and/or education and training.

5. Honorary Members. In recognition of distinguished services to the ISPRS and its aims, an individual may be elected an Honorary Member of the Society.

6. Fellows. In recognition of sustained, excellent service to the ISPRS and its aims, an individual may be elected as a Fellow of the Society.

#### **STATUTE VII - Organization and Administration**

The direction and management of the Society, including the conduct of its technical and scientific program, shall be undertaken through the following components: the Congress, the General Assembly, the Council, the Financial Commission, the Technical Commissions and the Sustaining Members Committee.

#### **STATUTE VIII - Officers**

1. The Officers of the Society shall be the President of the Society, the other Members of the Council and the Presidents of Technical Commissions.

2. The Officers shall serve from the termination of the Congress at which they are elected or appointed until the completion of the next ensuing Congress.

### **STATUTE IX - Congress**

1. The Congress shall consist of all photogrammetry, remote sensing and spatial information specialists in attendance.
2. The Congress shall normally meet every four years.
3. The Congress shall be convened in plenary session at least twice during the course of each Congress.

### **STATUTE X - General Assembly**

1. The General Assembly shall be the supreme authority of the Society for all decisions. It shall determine the general policy of the Society.
2. The General Assembly shall consist of the Delegates appointed by the Ordinary Members to represent them, each Ordinary Member being represented by one Delegate.
3. Delegates, Members of Council, Members of the Financial Commission, Honorary Members of the Society, Representatives of the Associate Members and Regional Members, and two Advisors per Delegate shall have the right to attend the meetings of the General Assembly.

### **STATUTE XI - Council**

1. The Council shall consist of six individuals:
  - The President of the Society
  - The Director of the Congress
  - The First Vice-President
  - The Secretary General
  - The Second Vice-President
  - The Treasurer
2. The General Assembly may appoint up to three Regional Representatives, from separate regions, to assist Council to coordinate activities in regions not already represented on the Council. The Regional Representatives shall be invited to attend Council Meetings as appropriate.
3. The Council shall conduct the affairs of the Society in the interval between meetings of the General Assembly in accordance with the Statutes and Bylaws and with the decisions and directives of the General Assembly and of Congress.
4. The Council shall be answerable to the General Assembly for management of Society affairs and shall guide the conduct of the General Assembly.
5. The Council shall assist the President to coordinate and guide the activities of the Technical Commissions.
6. Between meetings of the General Assembly the Council may consult Members by correspondence or otherwise.
7. The responsibilities of the members of Council are defined in the Bylaws.

### **STATUTE XII - Headquarters**

The headquarters of the Society shall be designated by the Council.

### **STATUTE XIII - Technical Commissions**

1. The scientific work of the Society shall be the responsibility of its Technical Commissions and shall be guided by Resolutions approved by the General Assembly.
2. Responsibility for the work of each Technical Commission during the interval between two successive Congresses shall be entrusted by the General Assembly to one of the Ordinary Members or to a number of Ordinary Members who have agreed to collaborate.
3. The work of each Commission should be conducted by the Commission Board consisting of:
  - The Commission President
  - The Commission Secretary/ies
  - The Working Group Chairpersons
  - The Commission Rapporteurs
  - Other officers as appointed

### **STATUTE XIV - Financial Commission**

1. At each Congress the General Assembly shall elect a Chairperson and two members of a Financial Commission.
2. The role of the Financial Commission shall be advisory and consultative. It shall examine expenditure of all kinds incurred by the Society and suggest to the General Assembly broad lines of financial policy for the Society having regard to its scientific responsibilities.
3. Between Congresses the Financial Commission shall report directly to the Council through the Secretary General at least once a year after the annual balance sheet has been prepared and examined. It shall be present in an advisory capacity at meetings of the General Assembly.

### **STATUTE XV - Finances**

1. Each Ordinary Member and Associate Member shall pay annually the subscription fee assigned to its category. The amount of subscription fee for each category shall be determined by the General Assembly and may be altered by the General Assembly only at one of its ordinary meetings held during the course of a Congress.
2. Regional Members and Sustaining Members shall pay an annual subscription fee established by Council.
3. The ISPRS Foundation shall be guided by the Society and maintained as an independent entity devoted solely to support philanthropic activities of the Society.

### **STATUTE XVI - Voting**

1. In plenary sessions of the Congress, decisions shall be taken by a show of hands and by a simple majority of votes passed.

2. Voting in the General Assembly shall be conducted as follows:

- (a) Only Delegates shall have the right to vote.
- (b) No Delegate shall represent or vote for any Ordinary Member other than his/her own.
- (c) Voting shall not be by proxy.
- (d) If the President or any Delegate so requests, the vote shall be taken by secret ballot.
- (e) Each Delegate shall have a number of votes equal to the category of the Ordinary Member which he/she represents.
- (f) The adoption of Resolutions concerning admission of new Ordinary Members, Associate Members or Regional Members, cancellation of membership, alteration to the Statutes or the Bylaws, dissolution of the Society or its amalgamation with another international organization, shall require at least three-quarters of the votes cast to be in favor of the Resolution. Decision on all other matters shall be approved by a simple majority of the votes cast.
- (g) Associate Members and Regional Members shall have observer status in the General Assembly with no voting rights, but with full discussion privileges.

3. Recourse to a vote by correspondence shall only be permitted in exceptional cases. This procedure shall be taken only when the Council considers it necessary to reach a decision without awaiting a meeting of the General Assembly.

#### **STATUTE XVII - Regulations and Directives**

The Council shall be entitled to issue provisional Regulations and Directives to provide guidance in transitory situations, and such shall be valid until considered at the next Congress.

#### **STATUTE XVIII - Languages**

1. The official languages of the Society shall be English, French and German.
2. The English Text of the present Statutes and Bylaws

shall be considered to be the definitive version.

#### **STATUTE XIX - Dissolution and Amalgamation**

Only the General Assembly may approve a decision on dissolution of the Society or amalgamation of the society with another international body. An extraordinary meeting must be specially called for that sole purpose. For such an extraordinary meeting three clear calendar months notice shall be given to all Ordinary Members in writing, requesting them to send Delegates thereto.

#### **STATUTE XX - Amendments to Statutes and Bylaws**

1. Only the General Assembly has authority to amend the Statutes and Bylaws.

2. The Statutes may be amended under the following conditions:

(a) An amendment may be formulated in writing by an Ordinary Member and addressed to the Secretary General not less than 10 months prior to the date fixed for the meeting of the General Assembly at which it is to be considered. Such an amendment shall be supported by at least one other Ordinary Member.

(b) Amendments may be formulated by the Council or a committee appointed by the Council. In such a case there shall be no necessity for supporting these amendments by an Ordinary Member.

(c) The Secretary General shall inform all Ordinary Members on the proposed amendments at least six months prior to the date fixed for the meeting of the General Assembly at which they are to be considered.

3. The Bylaws may be amended under the following conditions:

(a) At least 48 hours must be given Delegates prior to discussing amendments to the Society Bylaws.

(b) No Bylaw that contravenes the Statutes shall be valid.

*Original Statutes adopted by the General Assembly of the 11th Congress, July 1968, at Lausanne, Switzerland.*

*Statutes amended by the General Assembly of the 12th Congress, August 1972, at Ottawa, Canada.*

*Statutes amended by the General Assembly of the 14th Congress, July 1980, at Hamburg, Federal Republic of Germany.*

*Statutes amended by the General Assembly of the 15th Congress, June 1984, at Rio de Janeiro, Brazil.*

*Statutes amended by the General Assembly of the 16th Congress, July 1988, at Kyoto Japan.*

*Statutes amended by the General Assembly of the 18th Congress, July 1996, at Vienna, Austria.*

*Statutes amended by the General Assembly of the 19<sup>th</sup> Congress, July 2000, at Amsterdam, The Netherlands.*

*Statutes amended by the General Assembly of the 20<sup>th</sup> Congress, July 2004, at Istanbul, Turkey.*

*Statutes amended by the General Assembly of the 21<sup>st</sup> Congress, July 2008, at Beijing, China.*

*President: Ian J. Dowman (2004-2008)*

*Secretary General: M. Orhan Altan (2004-2008)*

# BYLAWS

## INTERNATIONAL SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

### **BYLAW I - Name and Mission**

The short title of the International Society for Photogrammetry and Remote Sensing shall be ISPRS with the motto "Information from Imagery" and these initials and motto shall be used in all the official languages of the Society and on flags, logos, stationery, etc. of the Society and its subordinate bodies.

### **BYLAW II - Definitions**

1. The Society's scientific interests shall include the photogrammetry, remote sensing, and spatial information sciences and related disciplines, as well as applications in cartography, geodesy, surveying, natural, Earth and engineering sciences, and environmental monitoring and protection. Further applications include industrial design and manufacturing, architecture and monument preservation, medicine and others.

2. For elective offices, nationality shall be that of the Ordinary Member which nominates the candidate and the candidate shall, at time of election, be a permanent resident of the nation of the Ordinary Member.

### **BYLAW III - Qualifications**

The Society subscribes to the declaration adopted in 1958 by the 8th General Assembly of the International Council for Science (ICSU), concerning non-discrimination on the basis of politics, nationality, religion, race, or gender.

### **BYLAW IV - Activities**

In addition to the activities in Statute IV the Society may do all other things incidental or conducive to the Society's aims, provided such acts do not contravene the Statutes or Bylaws of the Society or the laws of the country in which they are done, or the general principles to which the Society subscribes.

### **BYLAW V - Cooperation With Other International Organizations**

In its policy of cooperation the Society shall support consolidation of international societies committed to the promotion of the united profession of photogrammetry, remote sensing, spatial information sciences, cartography, geodesy, and surveying, as well as affiliation with other relevant international organizations.

### **BYLAW VI - Membership**

#### **1. Ordinary Members**

(a) An application for Ordinary Membership in the Society shall be addressed to the Secretary General and be accompanied by a description of the photogrammetric, remote sensing and spatial information science activities in the country or geographic region thereof having an independent budget, and of the nature of the organization making application, including specifically its statutes, aims, standing in the country, relations with other organizations concerned with the photogrammetry, remote sensing and spatial information sciences, and its administrative and financial structure.

(b) The application shall state the category in which Ordinary Membership is requested. The category chosen should be broadly related to the number of photogrammetrists and/or remote sensing and/or spatial information specialists represented by the applicant, and the uses made of the photogrammetry, remote sensing and spatial information sciences in the country concerned. The table below indicates the category to which an Ordinary Member should belong.

Number of Active Specialists	Category
less than 26	1
26 to 50	2
51 to 150	3
151 to 250	4
251 to 400	5
401 to 600	6
601 to 800	7
more than 800	8

(c) The Council shall review each application received and if it estimates that the proposed category is inappropriate, the Secretary General shall return the application. The Secretary General shall report every application received to all Members and shall inform them of the opinion of the Council thereon.

(d) The admission of an Ordinary Member shall be decided by vote of the General Assembly, or with approval of Council, by a vote by correspondence. The Secretary General shall declare the result of the vote to all Members and to the organization seeking admission.

(e) An Ordinary Member may at any time raise its

category; it may not lower it without the previous assent of the General Assembly.

(f) To retain its good standing as Ordinary Member requires fulfillment of its responsibilities outlined in the Statutes.

(g) The cancellation of Ordinary Membership may be declared by the General Assembly:

- in the case of action manifestly contrary to the interests and objectives of the Society;
- in the case of repeated default in the payment of subscription fees in spite of a demand for payment which the Treasurer shall send to the defaulting Ordinary Member at least six months prior to the meeting of the General Assembly.

(h) An Ordinary Member may resign from the Society by a declaration in writing addressed to the Secretary General. The Council shall act upon the declaration and shall inform all Members as quickly as possible.

(i) When an Ordinary Member leaves the Society, whether by resignation or by exclusion, it shall thereby forfeit all rights in the Society.

## 2. Associate Members

(a) An application for Associate Membership in the Society shall be addressed to the Secretary General and be accompanied by a description of the photogrammetry, remote sensing and spatial information science activities in the country and of the nature of the organization making application, including specifically its statutes, aims, standing in the country, relations with other organizations concerned with photogrammetry, and/or remote sensing, and/or spatial information sciences, and its administrative and financial structure.

(b) The application shall state the category in which Associate Membership is requested. The category chosen should be broadly related to the number of photogrammetrists and/or remote sensing and/or spatial information specialists represented by the applicant, and the uses made of the photogrammetry, remote sensing and spatial information sciences in the country concerned. The table below indicates the category to which an Associate Member should belong.

Number of Active Specialists	Category
less than 51	1
51 to 250	2
251 to 600	3
more than 600	4

(c) The Council shall review each application received and shall consult with the Ordinary Member of the

country, and the Secretary General shall report every application received to all Members and shall inform them of the opinion of the Council thereon.

(d) The admission of an Associate Member shall be decided by vote of the General Assembly, or with approval of Council, by a vote by correspondence. The Secretary General shall declare the result of the vote to all Members and to the organization seeking admission.

(e) An Associate Member can upgrade its membership to Ordinary Member:

- at any time by uniting or cooperating with the Ordinary Member of its country, or
- by vote of the General Assembly, after consultation by Council with the Ordinary Member and demonstration by appropriate documentation, of more active participation in areas of study of ISPRS and larger representation of the whole community of specialists in the country, than the current Ordinary Member. The new category will be determined according to Bylaw VI.1.(b).

(f) The cancellation of Associate Membership may be declared by the General Assembly:

- in the case of action manifestly contrary to the interests and objectives of the Society;
- in the case of repeated default in the payment of subscription fees in spite of a demand for payment which the Treasurer shall send to the defaulting Associate Member at least six months prior to the meeting of the General Assembly.

(g) An Associate Member may resign from the Society by a declaration in writing addressed to the Secretary General. The Council shall act upon the declaration and shall inform all Members as quickly as possible.

## 3. Regional Members

(a) An application for Regional Membership shall be submitted to the Secretary General and shall include a full listing of the associated organizations, the charter of the Regional Member, and names of current officers.

(b) The Council shall assure that the charter of the Regional Member conforms to the Statutes and Bylaws of the Society. The Secretary General shall report every application received to all Members and shall inform them of the opinion of the Council.

(c) The admission of Regional Members shall be decided by vote of the General Assembly, or with approval of Council, by a vote by correspondence.

(d) The cancellation of Regional Membership may be declared by the General Assembly:

- in the case of action manifestly contrary to the interests and objectives of the Society;
- in the case of repeated default in the payment of subscription fees in spite of a demand for payment

which the Treasurer shall send to the defaulting Regional Member at least six months prior to the meeting of the General Assembly.

#### **4. Sustaining Members**

(a) An application for Sustaining Membership shall be addressed in writing to the Secretary General and shall include a full statement of the applicant's role in the fields of photogrammetry and/or remote sensing and/or spatial information.

(b) Council shall consider each application and make the final decision on admission of an applicant.

(c) Sustaining Members may appoint a committee to represent the exhibitors in the planning and operation of scientific and technical exhibits sponsored by the Society. The recommendations of the Sustaining Members Committee are advisory to the Congress Director.

(d) The Congress Director of the Society shall convene a Sustaining Members meeting at least once during each Congress.

(e) Council shall have the authority to cancel Sustaining Membership:

- in case of action manifestly contrary to the interests and objectives of the Society;
- in case of repeated default in payment of subscription fees.

#### **5. Honorary Members**

(a) There may not be more than ten living Honorary Members of the Society at any given time.

(b) Honorary Members are elected by the Congress in Plenary Session. A maximum of two Honorary Members may be elected at any Congress.

(c) Candidates for Honorary Membership may be proposed by any of the Member organizations of the Society. Proposals shall summarize the accomplishments of the candidate and be submitted to the Secretary General at least one year before the next Congress.

(d) Honorary Members shall be nominated by a 7-member committee appointed by the Council. The committee shall include three honorary members, three members from the three previous Councils plus one current Council member and shall be chaired by the most recent Honorary Member.

(e) Honorary Members shall have the right to attend all meetings of the Society and its constituent parts except for Council meetings. They shall not be required to pay registration fees for any Society function.

#### **6. Fellows**

(a) Candidates shall be nominated by any Member of the Society or by Council. The nomination shall

be considered by the Fellows Committee, and recommendations for the award of Fellowship shall be made to the General Assembly which will elect the Fellows.

(b) The Fellows Committee shall be composed of 5 members from Fellows selected by Council (2), an Honorary Member selected by the Honorary Members (1), and individuals elected by the General Assembly (2). The Committee shall select a Chair from amongst their number. Members of the Fellows Committee are ineligible for nomination.

(c) The maximum number of Fellows at any one time shall be 30, Excluding those Fellows subsequently elected as Honorary Members. Up to 5 Fellows may be elected in any one General Assembly.

#### **BYLAW VII - Organization and Administration**

1. The chairs of the Permanent Committees, the Chair of the Finance Committee, the Editor in Chief of the ISPRS Journal, the Book Series Editor, the ISPRS Webmaster, the Editor of Highlights and the Regional Representatives shall comprise the Advisory Board. The Advisory Board shall meet with Council at least once during the inter Congress period.

2. Committees may be appointed by the Council to report on special topics or to address issues in support of Council. The membership of a Committee shall consist of a Chairperson appointed by the President and additional members shall be selected by the Chairperson with the approval of the President. International representation among Committee Members shall be encouraged. A committee shall be instituted when the Terms of Reference for the Committee have been approved by Council. The term of an Ad-Hoc Committee shall coincide with the inter-congress period. The term of a Permanent Committee shall be indefinite and may only be dissolved at the end of an inter-Congress period by consensus of the Council. The Chairperson shall prepare a report on Committee activities for presentation to each regular meeting of the General Assembly.

Permanent Committees of the Society are:

- International Committee on Remote Sensing of the Environment (ICORSE)
- International Policy Advisory Committee (IPAC)
- International Science Advisory Committee (ISAC)

#### **BYLAW VIII - Officers**

1. The President of the Society, the Second Vice President, the Secretary General and the Treasurer shall be elected by the General Assembly. Ordinary Members may submit nominations for members of Council to the

Secretary General not later than four months prior to the meeting of the General Assembly at the time of a Congress. The Council will review the recommendations and submit nominations to the General Assembly.

2. In order to assist continuity the outgoing President shall be appointed the incoming First Vice-President as of right without election. Should he/she decline the office it shall be offered successively in the following order to:

- the outgoing Secretary General
- the outgoing Vice-Presidents in turn, past Presidents excepted
- the outgoing Treasurer
- the outgoing Director of the Congress

Should all these decline the office, it shall be filled by election by the General Assembly.

3. The Director of the Congress shall be proposed by the Ordinary Member organizing the Congress and shall be confirmed by the General Assembly.

4. The First Vice-President who has been appointed to that office without election and the Director of the Congress may be of any nationality. Of the remaining members of the Council no two shall be of the same nationality.

5. No person shall hold the office of President for two consecutive terms. No person who has held the offices of President and First Vice-President consecutively in that order shall be eligible for a further consecutive term of office as President. The choice of person to become President shall not otherwise be restricted by virtue of any office in the Society which he/she holds or has held in the past.

6. No more than three Council members may remain on Council from one inter-Congress period to the next. An outgoing elected member of Council shall not be eligible for election to any office on the incoming Council other than to that of President of the Society or Secretary General. After the lapse of one inter-congress period he/she shall again become eligible for election to the Council.

7. The Council shall fill by co-option all vacancies occurring through the death or long-term disability of any of its members other than the President. When filling the post of Treasurer by co-option, the Council shall first consult all Ordinary Members, by correspondence or otherwise, and shall take account of the views expressed.

8. No member of Council shall be a member of the Financial Commission.

9. The Presidents of Technical Commissions shall be nominated by the Ordinary Members seeking responsibility for Technical Commissions. The General Assembly selecting the Ordinary Member responsible for a Commission shall confirm the Commission President. In case of necessity a Commission President may be confirmed by the Council.

#### **BYLAW IX - Congress**

1. The Congress site shall be selected by the General Assembly from proposals made by Ordinary Members. Such proposals shall include the dates, physical facilities, preliminary financial plans, and the name of the proposed Congress Director.

2. The Ordinary Member organizing the Congress shall sign a contract with the Society and be responsible for ensuring that adequate provisions are made for the Congress. The Ordinary Member shall obtain the necessary financial support for this purpose. The Ordinary Member shall be responsible for financing the Congress, including the preparation and publication of The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences relating to the Congress. For this purpose it shall have the cooperation of the Technical Commissions and of the Council.

3. The activities of the Congress shall be prepared and carried through by a Congress Committee and chaired by the Congress Director. All other members of the Congress Committee shall be appointed by the Ordinary Member organizing the Congress. The Congress Committee shall have the responsibility for organizing the Congress on the administrative and financial levels.

4. Only persons in the following categories may take part in the activities of the Congress:

- (a) Persons who are associated with a Member and have paid the Congress fee;
- (b) Honorary Members of the Society;
- (c) Persons specially invited by the President either on account of their personal standing or as representatives of other scientific organizations. They shall not be required to pay the Congress fee;
- (d) Persons who have received the general invitation and have paid the Congress fee.

5. Congress meeting in plenary session shall:

- (a) review the decisions of the General Assembly;
- (b) witness the award of Medals and other distinctions of the Society;
- (c) elect the Honorary Members of the Society.

6. The Technical Commissions shall meet during the

Congress for the purpose of:

- (a) reports by the Presidents on activities of the Commissions during the inter-congress period;
- (b) presentation of technical papers, tutorials and/or poster sessions on topics covered by the Commissions in programmed technical sessions determined by Commission Presidents and the Council;
- (c) formulation of Resolutions.

#### **BYLAW X - General Assembly**

1. The President shall convene the General Assembly to one or more meetings in the course of every Congress.
2. In the interval between Congresses the President may convene the General Assembly to an extraordinary meeting to discuss a single Resolution that has the support of at least two Ordinary Members. The Resolution in question shall be made available in writing to all Ordinary Members, Associate Members and Regional Members at least three calendar months in advance of the meeting. Whenever called upon in writing by not less than three-quarters of the Members, the President shall convene an extraordinary meeting.
3. Prior to every Congress and prior to every extraordinary meeting of the General Assembly each Ordinary Member shall appoint one Delegate to represent it at the General Assembly. Such appointments shall have no permanency and shall be valid only for the duration of the Congress or of the extraordinary meeting. No member of the Council shall be appointed as a Delegate. Associate Members and Regional Members may appoint Representatives to the General Assembly.
4. Each Ordinary Member Delegate authorized to vote at the General Assembly shall present his/her credentials to the Secretary General on his/her arrival at the Congress or at the extraordinary meeting. The Secretary General shall compile a list of Ordinary Members, their Delegate and two Advisors, their voting rights, their subscription fees paid or in default and shall report thereon in writing to the President. Each Representative of an Associate Member and of a Regional Member shall present his/her credentials to the Secretary General on arrival at the Congress or the extraordinary meeting. The Secretary General shall prepare a list of Associate Members and Regional Members and their Representatives, their subscription fees paid or in default, and shall report thereon in writing to the President.
5. Each Delegate may be accompanied at the General Assembly by not more than two Advisors. Only Delegates shall have the right to vote. An Advisor

shall have the right to speak only upon the invitation of his/her own Delegate and with the permission of the President. If the appointed Delegate is unable to serve for any reason, one of the Advisors may serve as Delegate with permission of the President.

6. An Ordinary Member that has not paid its subscription fees up to and including the year before the General Assembly shall have no voting rights at the General Assembly and shall not be entitled to bid for positions on the Council, the Financial Commission, or to host a Technical Commission.
7. Observers may be invited to attend the General Assembly only by the President.
8. The General Assembly shall:
  - (a) review the implementation of directives adopted by the General Assembly and Congress;
  - (b) review the decisions taken by the Council since the last Congress;
  - (c) consider the reports and proposals of the Council and Financial Commission and Committees;
  - (d) define the policy to be pursued by the new Council;
  - (e) decide upon the admission of new Ordinary Members, Associate Members and Regional Members;
  - (f) decide upon the exclusion of Ordinary Members, Associate Members and Regional Members;
  - (g) decide upon the transference of an Ordinary and/or Associate Member from one category to another;
  - (h) determine the value of the subscription unit;
  - (i) elect the President, the elected members of Council and the members of the Financial Commission;
  - (j) choose the Ordinary Member to organize the next Congress;
  - (k) confirm the Congress Director;
  - (l) choose the Ordinary Members and confirm Commission Presidents to be responsible for the Technical Commissions during the next four-year period;
  - (m) amend the Statutes and the Bylaws;
  - (n) approve Resolutions of the Technical Commissions, Members and Committees;
  - (o) ratify Memorandums of Understanding and similar formal agreements with international organizations;
  - (p) elect Fellows of The Society;
  - (q) appoint Regional Representatives.
9. All items to be discussed at the General Assembly must be included in a preliminary agenda sent in advance to all Members. A matter or a candidature not appearing on the agenda of the General Assembly shall not be considered by the General Assembly unless, by direction of the Council and through the agency of the Secretary General, the matter has been brought to the

notice of all Delegates at least 24 hours before the meeting and unless the General Assembly first pass a formal vote that it be considered.

#### **BYLAW XI - Council**

1. The Council shall constantly pursue the general policy of the Society and maintain the Society in a state of continual scientific activity.

2. A Council meeting shall be held at least once during each calendar year. All Council members are expected to participate fully in these meetings and to avoid representation by surrogates or proxy.

3. The Council may prepare Terms of Reference, and issue Guidelines and instructions as necessary to implement the directives of the General Assembly.

4. In exceptional circumstances the Council may act without approval of the General Assembly, and such actions shall be valid until considered at the next meeting of the General Assembly. But all questions relating to exclusion of an Ordinary Member, Associate Member or Regional Member, lowering of the category of an Ordinary Member, value of the unit of subscription, alteration of the Statutes or Bylaws, and dissolution of the Society or its amalgamation with another international organization must be referred to the General Assembly and decisions thereon shall be taken only by the General Assembly.

5. Regional Representation. A maximum of three Regional Representatives may be appointed to assist Council to coordinate activities in regions not adequately represented on the Council. They shall be proposed by Council and be confirmed by the General Assembly. A Regional Representative may not serve in that capacity for more than two consecutive inter-Congress periods. No Regional Representative shall have the same nationality as any member of the Council. The Regional Representatives shall:

- (a) Liaise with Members and potential members within their region and represent the views of those members on Council.
- (b) Make best efforts to ensure that at least one ISPRS meeting is held within the region during the inter-Congress period.
- (c) Encourage members and organisations within their region to support the aims of ISPRS and become Members of ISPRS.
- (d) Attend national and regional activities within their region and promote the aims and activities of ISPRS.
- (e) Attend meetings of the Council and Advisory Board when invited.

6. The **President of the Society** shall:

- (a) convene and preside over the plenary sessions of Congress, the General Assembly and the Council; he/she may, however, delegate the Director of the Congress to preside at Congress plenary sessions;
- (b) coordinate the activities of the Technical Commissions and Working Groups, according to the decisions and intentions of the General Assembly and the Congress;
- (c) represent the Society in its dealings with national or international institutions or organizations whose activities are of interest to the Society;
- (d) cooperate with other international organizations concerned with photogrammetry, remote sensing, spatial information science, cartography, geodesy, surveying, and other similar disciplines;
- (e) communicate to Members:
  - not less than twelve months in advance of the Congress, the date and place of the next meeting of Congress;
  - not less than three months in advance of the Congress, the Agenda of the General Assembly accompanied by an explanation of the purpose and import of the items of Agenda, especially those relating to the admission or exclusion of an Ordinary Member, Associate Member or Regional Member, changes in value of unit of subscription and modifications to the Statutes;
  - not less than one month in advance of the Congress, the names of the Ordinary Members which have proposed to organize the next Congress;
  - not less than one month in advance of the Congress, the names of the Ordinary Members which have proposed to be responsible for each of the Technical Commissions for the next four-year period and the names of their proposed Commission Presidents;
- (f) inform Members in writing of the decisions taken at extraordinary meetings of the General Assembly.

7. The **Congress Director** shall:

- (a) be Chairperson of the Congress Committee;
- (b) represent the Ordinary Member responsible for the Congress in all matters relating to its organization;
- (c) correspond with Ordinary Members, Associate Members, Regional Members, Technical Commissions, Working Groups, Committees and the Sustaining Members Committee concerning the scientific and social programs of the Congress;
- (d) report to the Council the measures being taken to previous Congress Director or a representative from the previous Congress Committee shall assure the publication of The International Archives of the Photogrammetry, Remote Sensing and Spatial

Information Sciences relating to that Congress and shall be available for consultation on the planning of all matters related to the forthcoming Congress.

8. The **First Vice-President** shall:

- (a) assist the President in his/her duties when called upon by the President to do so;
- (b) act for the President should he/she be prevented by circumstances outside his/her control from fulfilling his/her duties;
- (c) serve as the Chairperson of the Resolutions Committee to coordinate Resolutions from the Technical Commissions, Members and Committees for consideration by the General Assembly;
- (d) coordinate the proper and timely procedures for the awards.

9. The **Second Vice-President** shall:

- (a) assist the President in any manner requested by President;
- (b) fulfill the responsibilities of the First Vice-President should he/she be prevented from acting;
- (c) review, maintain and update the Statutes, Bylaws and Guidelines.

10. The **Secretary General** shall:

- (a) perform the duties of Secretary of the General Assembly, of the Council and of the Congress meeting in plenary session, arrange the meetings of these bodies, and draw and distribute their agenda and minutes at the proper time;
- (b) at the request of the President, represent the Society in its dealings with national or international institutions or organizations whose activities are of interest to the Society;
- (c) deal with the correspondence of the Society and ensure the keeping of the records, and distribute to Members relevant information and communication;
- (d) collate the reports of the Technical Commissions and distribute information concerning the Commissions;
- (e) collaborate with the Congress Committee and the Boards of the Technical Commissions concerning the recording and writing up of all proceedings and concerning the publication of the Archives (contents, presentation, distribution);
- (f) ensure timely preparation and dissemination of Society publications;
- (g) ensure that the decisions taken at Congresses are speedily carried out;
- (h) receive the credentials of Delegates, Advisors and Representatives appointed by Ordinary Members, Associate Members and Regional Members to represent them at the Congress and report in writing to the President on their voting rights;

(i) coordinate the scheduling of all events of the Society.

11. The **Treasurer** shall:

- (a) complete the accounts for hand over to the new Treasurer within two months of the end of the Congress. The new Treasurer shall replace the outgoing Treasurer on receipt of the final accounts;
- (b) issue annual invoices one month before the upcoming fiscal year in which the fee is due to Ordinary Members, Associate Members, Regional Members, and Sustaining Members and inform them of the proper procedures for remittance of subscription fees. The Treasurer shall send periodic reminders to those in arrears;
- (c) collect the funds of the Society and administer them in accordance with the decisions of the General Assembly and the instructions of the Council;
- (d) keep account of all financial transactions and submit a statement of accounts at the end of each fiscal year to the Financial Commission for audit;
- (e) assemble the complete accounts of the Society for the four-year term at the end of the fiscal year prior to the Congress and submit them to the Financial Commission for audit;
- (f) submit to the Secretary General prior to the meeting of the General Assembly a list of Ordinary Members, Associate Members and Regional Members that have not yet paid their annual subscription fee up to and including the year prior to the General Assembly;
- (g) submit a financial statement to each Council meeting and a summary financial report to the General Assembly.

#### **BYLAW XII - Headquarters**

Provided that the Statutes and Bylaws of the Society do not run counter to the laws pertaining to associations in the country where the Secretary General is domiciled, the residence of the Secretary General shall be the headquarters of the Society, except when the Council decides for a more convenient alternative.

#### **BYLAW XIII - Technical Commissions**

1. The main tasks of a Technical Commission shall be:
- (a) to follow the technical and scientific progress within its field and report thereon to the Congress;
  - (b) to provide initiative in technical and scientific progress, especially by establishing Working Groups, arranging International Symposia, and organizing experiments on research;
  - (c) to identify the results of research and development in order to present them for discussion at the Congress;
  - (d) to propose actions leading to the promotion and

evaluation of the photogrammetry, remote sensing and spatial information sciences, and to assist the Council in defending these proposals to the authorities concerned;

(e) to assist in international standardization activities in subject matters related to the photogrammetry, remote sensing and spatial information sciences;

(f) to promote continuing education by organizing tutorials;

(g) to report to Council on the implementation of their program in accordance with Bylaws and Technical Resolutions;

(h) to submit an annual report on its areas of responsibility to the Society. The report should include activities and the state of the science and technology of the Commission and Working Groups.

2. Activities in the photogrammetry, remote sensing and spatial information sciences shall be divided into eight areas of major interest and each area shall be entrusted to a Technical Commission. The areas of responsibility for the Technical Commissions shall be as follows:

#### **Commission I: Image Data Acquisition - Sensors and Platforms**

- Design and realization of digital aerial and spaceborne missions for Earth observation;
- Design, construction, characterization, and installation of imaging and non-imaging sensors (including Optical, IR, SAR, IFSAR, LIDAR, etc.);
- Standardization of definitions and measurements of sensor parameters;
- Integration of imaging and non-imaging sensors with other relevant systems;
- Geometric and radiometric properties, quality standards, and factors affecting data quality;
- Test, calibration and evaluation of sensors (including laboratory, in-flight, inter-calibration and test fields);
- Integrated platform guidance, navigation, positioning and orientation;
- Data reception and pre-processing;
- On-board preprocessing of data and autonomous systems;
- Systems and media for recording sensor data, auxiliary data (time, position, attitude, etc.) and film scanners;
- Image and non-image data transfer standards.

#### **Commission II: Theory and Concepts of Spatial Information Science**

- Fundamentals of spatial database design, spatial data structures, spatial analysis and geostatistics, spatial querying, spatial reasoning, spatial and temporal

modeling;

- Aggregation, generalization, abstraction and rendering of image and vector data;
- Spatial decision support systems;
- Processing, analysis and modeling of multi-dimensional geospatial data;
- System integration and modeling aspects for data and geoinformation processing;
- Interoperability of heterogeneous spatial information systems;
- Semantic and geometric integration of heterogeneous spatial information;
- Communication and visualization of spatial data;
- Data mining, filtering, retrieval and dissemination;
- Spatial data quality and spatial model quality.

#### **Commission III: Photogrammetric Computer Vision and Image Analysis**

- Algorithms for geometric analysis of image data regardless of scale;
- Geometric analyses of IR, SAR, IFSAR and LIDAR;
- Automated feature and attribute extraction techniques and methodologies from multi-sensor, multi-resolution, multi-spectral, hyperspectral, and multi-temporal imagery;
- Fundamental research into image understanding for object detection, recognition, identification and reconstruction;
- DEM generation and integration of three-dimensional modeling concepts into image analysis processes;
- Integration of spatial information systems and object models for object recognition;
- Sensor pose determination (including auxiliary information);
- Projective and multi-view geometry;
- Image sequence analysis;
- Algorithms for including features in the orientation processes;
- Spatial, spectral and temporal properties of natural and human-formed objects.

#### **Commission IV: Geodatabases and Digital Mapping**

- Development, access and management of spatio-temporal databases;
- Spatial data infrastructures;
- Image-based geospatial databases;
- Data libraries, data clearinghouses, data warehouses, distributed archives and access to remote data sources, including metadata and digital data standards;
- Web based access, retrieval and dissemination of spatial data, including web-based location-based

services;

- Integration of spatial information systems and image analysis for database-driven change detection, data capture and updating;
- Dynamic spatial information systems, spatial data revision and versioning;
- Interfacing 3D models with facility management systems;
- Database generation for digital topographic and thematic mapping (including orthoimages and digital terrain models);
- Digital landscape modeling and visualization, and large scale urban models;
- Global environmental databases and mapping;
- Extraterrestrial mapping and spatial information systems;
- Analysis of systems and their components for automated and semi-automated digital mapping and geoinformation systems;
- Analysis of industry needs and design of systems for production and update of geoinformation.

#### **Commission V: Close-Range Sensing – Analysis and Applications**

- Systems and algorithms for real-time imaging, mobile mapping and video processing;
- Photogrammetric vision metrology technologies with special consideration of CAD/CAM and spatial information systems;
- Integration and fusion of multiple data sources for advanced object extraction and modeling;
- Laser scanning for 3-D representation of objects and scenes;
- Close-range image sequence analysis procedures;
- Vision-based techniques for visualization, simulation, robotics and animation;
- Vision metrology systems and industrial applications;
- Photogrammetric techniques in biomedical engineering and human motion studies;
- Techniques for architectural, archaeological and cultural heritage applications.

#### **Commission VI: Education and Outreach**

- Promotion of education and training at fundamental, advanced and professional levels;
- Promotion of technology transfer, considering account regional needs and resources;
- Computer-assisted teaching, training and distance learning;
- Innovative techniques for information dissemination on the Internet;
- Promotion of youth forum and innovative outreach activities;
- Assist the Council in the promotion of ISPRS activities in the regions;

- Quality enhancement of content and format of ISPRS publications and Internet home pages.

#### **Commission VII: Thematic Processing, Modeling and Analyses of Remotely Sensed Data**

- Relationship between spectral, radiometric and temporal properties of objects, their physical and chemical properties and their variations;
- Image classification and analysis methodologies;
- Analysis of characteristics of multi-spectral, hyperspectral, multi-sensor, microwave and multi-temporal image data for extraction of attribute information;
- Methodologies of computer-assisted interpretation and analysis of remotely sensed data;
- Validation of data and information using laboratory and in-situ methodologies;
- Improving atmospheric modeling for radiometric correction;
- Multi-source data fusion and integration techniques;
- Modeling of satellite data derived parameters;
- Global databases and determination of indicators of change for global modeling, monitoring and sustainable development;
- Integration of remote sensing and GIS techniques;
- Aerosol and particulate detection and identification.

#### **Commission VIII: Remote Sensing Applications and Policies**

- Forestry, vegetation, agricultural and biodiversity studies and applications;
- Hydrology, oceanography, coastal zone, snow and ice applications;
- Atmospheric and weather studies and applications;
- Geology, pedology and geomorphology studies and applications;
- Monitoring and management of land and water resources;
- Land use, human impact and ecosystem analyses;
- Disaster monitoring, mitigation and damage assessment;
- Hazardous waste and environmental pollution assessment;
- Infrastructure, transportation and communications studies and applications;
- Satellite and aerial remote sensing policies;
- Cooperation with international environmental programs and strategies;
- Earth Observation activities to support sustainable development.

3. An Ordinary Member (or Ordinary Members) seeking responsibility for a Technical Commission shall submit to the Secretary General an application which includes the

activities and the name of the proposed Commission President. This application shall be submitted at least four months prior to the commencement date of the Congress.

4. In choosing the Ordinary Member or group of Ordinary Members to be entrusted with the responsibility for the work of a Commission, the General Assembly shall take into consideration all relevant factors, including in particular:

- the various Ordinary Members willing to undertake the responsibility;
- the scientific and technical ability available to each candidate;
- the professional standing and ability of the person proposed as Commission President;
- the ability and willingness of each Ordinary Member and other organizations in its country to support a Commission;
- the program of Commission activities proposed by the Ordinary Members and in particular the Working Groups, their chairpersons and the events contemplated.

5. The Ordinary Member (or Ordinary Members) entrusted with a Technical Commission shall assume responsibility for the technical and financial management of the Commission. It shall prepare the Commission and Working Group reports and be responsible for production of the Proceedings of its Symposium for publication in the Archives.

6. A Technical Commission shall be autonomous in scientific matters but the Commission President shall keep the President of the Society and the Council fully and promptly informed of all its activities and the progress of its work. The Presidents of Commissions shall meet with the Council as and when necessary to coordinate the work of the Commissions.

7. Each Commission is expected to organize an International Symposium in the period between two Congresses. Before arranging an International Symposium the Commission shall obtain the consent of the Council. Ordinary Members organizing an International Symposium shall sign a contract with the Society and be responsible for ensuring that adequate provisions are made for the Symposium. Such Symposia shall be devoted to the field of the Commission and preparation for the ensuing Congress. Two or more Technical Commissions may collaborate to organize a joint Symposium as a single event.

8. The Commission President shall have the right to invite a limited but sufficient number of persons to join the Commission Board as Commission Rapporteurs for

a particular field of interest to the Commission. Such Rapporteurs shall be chosen entirely at the President's own discretion, for the special knowledge or facilities they may possess which will enable them to give the assistance desired. They may be invited from any country and international representation shall be encouraged. They need not be Ordinary Member or Associate Member Correspondents but may perform that duty in addition.

9. Each Ordinary Member and Associate Member shall be entitled to appoint one Correspondent to each Commission. It may change its Correspondent or appoint a substitute at any time.

10. The Commission Board shall review the Resolutions approved by the Congress and identify subjects or problems requiring detailed study, trials or experimental research. It shall establish Working Groups to undertake these investigations and it shall ensure that all measures outlined in the Resolutions are covered by Working Group activities. If, in this connection, important divergences of opinion should arise within or between Commissions, the Council shall determine the course of action. The terms of reference and duration of the Working Groups shall be strictly limited and clearly defined by the Commission Board and approved by Council. A subdivision of the field of a Commission into Working Groups acting virtually as independent Commissions shall not be permissible.

11. The Working Group shall consist of:

- the Chairperson of the Working Group;
- optionally a Co-Chairperson;
- a group of specialists chosen by the Chairperson, not in consideration of country but of qualification and commitment;
- other interested, competent specialists who have indicated a commitment to contribute and participate.

12. A Working Group may be appointed to study a problem pertinent to the fields of more than one Commission. It shall then be called an Inter-Commission Working Group. The President of the initiating Commission shall notify the Council of the intention and reach agreement with the Presidents of other Commissions concerned. The Council shall pronounce on the advisability of setting up such an Inter-Commission Working Group, determine if need be the terms of reference and duration of its mission and designate the Commission which it most concerns and within which it shall make its report. Such a Working Group shall not be permitted to develop gradually into any kind of independent Commission.

13. Each Working Group shall report annually to the Commission President concerned, in addition to reporting through the appropriate Commission at the Congress. When a Working Group has treated its subject sufficiently for the time being, or has been found to be inactive, the Council shall dissolve the Working Group, normally on the initiative of the Chairperson of the Group or the President of the Commission concerned.

14. At least six months in advance of a Congress, the President of each Technical Commission shall form a committee to prepare Resolutions for the Commission. This Committee shall identify the more important problems requiring solution and submit to Council Resolutions on the work needed to solve them, no later than three months in advance of the Congress.

15. Prior to the Congress, the First Vice-President shall form the Resolutions Committee, which shall coordinate the Resolutions of all Technical Commissions, Members and Committees with regard to practicality, shall ensure that they are set down in suitable standard form and are presented in at least one of the official languages of the Society.

16. During a Congress or Symposium all photogrammetric, remote sensing and spatial information specialists rightfully present shall be free to participate in all activities of a Technical Commission.

**BYLAW XIV - Financial Commission**

1. Each member of the Financial Commission shall be of a different nationality. No member of the Financial Commission shall be of the same nationality as any member of Council. Delegates to the General Assembly shall not be excluded from serving as members of the Financial Commission.

2. The Financial Commission shall advise the Council on all financial matters at any time upon the request of the Council.

3. The outgoing Financial Commission shall continue to serve after the Congress to ensure that the outgoing Treasurer hands over the accounts and funds of the Society to the new Treasurer within two months of the Congress. The new Financial Commission shall replace the outgoing Financial Commission at the same time as the changeover of Treasurers, and report to the Council that the changeover has been satisfactorily accomplished.

4. The Financial Commission shall examine and audit accounts of the Treasurer once every year, and submit its recommendations to the Council.

5. In the event that a member of the Financial

Commission becomes unable to continue in office, on the advice of the remaining members of the Commission, the Council may approve a replacement.

**BYLAW XV - Finances**

1. The fiscal year of the Society shall be 1st January to 31st December. All annual subscription fees of Ordinary Members, Associate Members, Regional Members and Sustaining Members shall be paid before the end of the fiscal year.

2. The annual subscription fee paid by an Ordinary or Associate Member shall be defined through the number of units of subscription assigned to its category of Membership in accordance with the following table:

Category	1	2	3	4	5	6	7	8
	Subscription Units							
Ordinary Member	1	2	6	10	16	24	32	48
Associate Member	1	6	12	24				

3. The value of the subscription unit shall be fixed by the General Assembly.

4. The subscription fees of Sustaining Members and Regional Members, established by the Council, shall be ratified by the General Assembly.

5. Bank accounts of the Society shall be held in the names of two persons, namely the President and the Treasurer.

6. Gifts and legacies offered to the Society may be accepted by The ISPRS Foundation Council and ratified by the General Assembly.

7. Finances of the Society shall be controlled as follows:  
 (a) An annual budget for revenues and expenditures for each fiscal year shall be prepared by the Treasurer, examined in detail by the Financial Commission, and passed on to the Council for approval, one month prior to the end of the fiscal year.

(b) Recommendations for grants to support philanthropic activities of the Society shall be prepared by the Council and forwarded to the Board of Trustees of the ISPRS Foundation for action.

(c) Additional expenditures for routine operations can be approved by the Treasurer. Expenditures for extraordinary items must receive Council's approval.

**BYLAW XVI - Voting**

1. A quorum for convening a General Assembly shall require that the Ordinary Member delegates representing fifty percent (50%) of the total sum of eligible votes be present at the commencement of the General Assembly at which the voting is taking place.

2. When a vote by correspondence is taken in respect of admission of a new Ordinary Member, Associate Member or Regional Member, voting papers shall be sent electronically or by airmail to every Ordinary Member eligible to vote with the final date for the return of the vote set at three months after the mailing. All ballots not returned by the time limit set will be recorded as considered to be favorable votes. A decision to admit the applicant a new Ordinary Member, Associate Member or Regional Member shall be declared after the time limit set has expired, provided that three-quarters of the votes cast are in favor of admission.

3. Members who raise their category at a General Assembly shall receive voting rights at the higher category if they have paid their annual membership subscription fee at the higher category for the fiscal year of the General Assembly.

#### **BYLAW XVII - Regulations and Directives**

1. The decisions of the Plenary Session of a Congress and the decisions of the General Assembly shall be made known to Members and Technical Commissions of the Society without delay.

2. Except where specified otherwise a quorum of fifty percent (50%) of the total sum of eligible votes at the commencement of the General Assembly at which voting is taking place, shall be required for decisions at the General Assembly.

3. Decisions taken by the Council shall be promptly communicated to Members by the Secretary General.

4. Conflict of Interest. All individuals acting on behalf of ISPRS, whether they are on the Council, Technical Commission Presidents, Working Group officers, ISPRS Committee members, awards jury members or other individuals appointed by ISPRS to act on its behalf, shall disclose to the Council any duality of interest or possible conflict of interest, whenever the duality or conflict pertains to a matter for which this individual is required to make a decision. The Council shall decide on whether the individual can take part in further discussion or vote on the item where conflict occurs, or whether the individual should be replaced.

#### **BYLAW XVIII - Languages**

During a Congress, or a Symposium of a Technical Commission, the host Ordinary Member may offer, entirely at its own expense, translation to the language of the host country.

#### **BYLAW XIX - Dissolution or Amalgamation**

In the instance of dissolution of the Society the funds shall be donated to a recognized international charitable organization selected by the Council and the Financial Commission. The records of the dissolution shall be deposited with the organization that has assumed responsibility for Archives.

#### **BYLAW XX - Amendments to Statutes and Bylaws**

Amendments to Statutes and Bylaws shall take effect at the times set by the General Assembly.

*Original Bylaws adopted by the General Assembly of the 11th Congress, July 1968, at Lausanne, Switzerland.*

*Bylaws amended by the General Assembly of the 12th Congress, August 1972, at Ottawa, Canada.*

*Bylaws amended by the General Assembly of the 14th Congress, July 1980, at Hamburg, Federal Republic of Germany.*

*Bylaws amended by the General Assembly of the 15th Congress, June 1984, at Rio de Janeiro, Brazil.*

*Bylaws amended by the General Assembly of the 16th Congress, July 1988, at Kyoto, Japan.*

*Bylaws amended by the General Assembly of the 17th Congress, August 1992, at Washington, D.C., USA.*

*Bylaws amended by the General Assembly of the 18th Congress, July 1996, at Vienna, Austria.*

*Bylaws amended by the General Assembly of the 19th Congress, July 2000, at Amsterdam, The Netherlands.*

*Bylaws amended by the General Assembly of the 20<sup>th</sup> Congress, July 2004, at Istanbul, Turkey.*

*Bylaws amended by the General Assembly of the 21<sup>st</sup> Congress, July 2008, at Beijing, China.*

*President: Ian J. Dowman (2004-2008)*

*Secretary General: M. Orhan Altan (2004-2008)*

## ISPRS AWARDS POLICY

In recognition of the value and prestige associated with ISPRS Awards, in 1998 the Council developed the following ISPRS Awards Policy, which was ratified by the ISPRS General Assembly in Amsterdam and revised in 2009.

1. ISPRS Awards shall recognize outstanding contributions and achievements by an individual or individuals in the pursuit of, or for a major realization of the objectives of ISPRS.
2. The Terms of Reference of ISPRS Awards shall be in accordance with the Statutes and Bylaws of the Society.
3. The Terms of Reference of ISPRS Awards shall be specified in written form in the English language.
4. The Terms of Reference and background shall be communicated to ISPRS members through official documents of the Society (Silver Book, WWW Page).
5. ISPRS Council shall appoint an Awards Nomination Committee which will ensure that the Awards are well publicized and that at least two nominations are received for each Award for submission to the jury for each Award. The Nomination Committee may make nominations themselves.
6. All new ISPRS Awards shall consist of a reward of substantial monetary value, or an item of high intrinsic

value (a minimum of Swiss francs 2,500 or equivalent), together with a certificate or plaque of recognition.

7. In order to establish a new long-term award (for a minimum of 12 years), the sponsoring organization shall make a commitment for a minimum period of support of 12 years in the formal proposal for the award to the President of ISPRS, for approval by Council.
8. The funding and preparation of ISPRS Awards shall be provided by the sponsoring organization(s) and delivered to the Congress Director and Treasurer. after the Awardee(s) have been identified.
9. Each new ISPRS Award shall be granted for a specific purpose, which shall not overlap significantly the purpose of another ISPRS Award.
10. Presentations of ISPRS Awards shall be made at an appropriate event, preferably a plenary session, General Assembly of the Congress, or Gala Dinner.
11. Amendment to the Terms of Reference of an ISPRS Award shall require agreement of Council with the Award sponsor. The sponsor shall then prepare the amended Terms of Reference in final form as specified in paragraph 2, for Council approval.
12. It is expected that the recipient will attend the Congress to receive the award.

## ISPRS AWARDS NOMINATION DEADLINES

- Brock Gold Medal Award: to the Secretary General by 1st October 2011.
- The Otto von Gruber Award: to the President by 1st February 2012.
- The Schwidefsky Medal: to the President by 1st February 2012.
- The Willem Schermerhorn Award: to the President by 1st February 2012.
- The Samuel Gamble Award: to the Secretary General by 1st February 2012.
- The Eduard Dolezal Award: to the Secretary General by 1st January 2012.

- The U.V. Helava Award: will not require a formal submission.
- The Giuseppe Inghilleri Award: to the President by 1st February 2012.
- The Wang Zhizhuo Award: to the President by 1st February 2012.
- The President's Honorary Citation: to the President by TCPs by 1st March 2012.
- Best Papers submitted by Young Authors, to the Congress Director by 1st March 2012.
- The Karl Kraus Medal: to the President by 1st February 2012.

# AWARDS NOMINATION COMMITTEE

## **Terms of Reference**

1. The Awards Nomination Committee shall be appointed by Council and shall include 2 Council Members (SG and 1VP), 2 Honorary Members, The Editor in Chief of the Journal and 2 other persons. The ISPRS First Vice President will chair the Committee.

2. The Committee shall, in cooperation with the Secretary General, ensure that information about the ISPRS Awards is widely disseminated amongst Members, academic institutions and other organisations involved in the photogrammetry, remote sensing and spatial information sciences.

3. The Committee shall canvass Members, academic institutions and other organisations involved in the photogrammetry, remote sensing and spatial information sciences in an endeavour to ensure that all deserving candidates are considered for nomination for each Award, and that nominations are made for all awards. Nominations may be made by the Committee.

4. The Committee shall ensure that appropriate biographical information is compiled on each nominee, and made available for consideration by the jury for each Award.

# THE BROCK GOLD MEDAL AWARD

## **Preamble**

The periodic Award of a gold medal was instituted in 1952 by the ISP to encourage the advancement of photogrammetry. The funds for the provision of medals were given in memory of Arthur and Norman Brock. On 22nd May, 1954 and 25th March, 1955, the Council of the ISP adopted unanimously certain rules governing the Award of the medal and further resolved that those rules should remain in force until altered by the unanimous vote of the Council which provision is still valid. On 8th May 1957 and on 20 April 1999, the Council considered alterations to the rules and subsequently by correspondence agreed by unanimous vote to alter them and rewrite them as follows:

## **Rules governing the award**

1. The medal shall be known as the Brock Gold Medal Award and shall be awarded at the sole discretion of the Council of the ISPRS in accordance with the following rules.

2. The person to whom the Award is to be made shall be selected irrespective of nationality and solely in respect of contribution to the accomplishment to be signaled by the Award.

3. The medal shall be awarded only in respect of an outstanding landmark in the evolution of the photogrammetry, remote sensing and spatial information sciences, which shall be a proven

contribution to these sciences and technologies of whatever form, whether a major completed project or program, some fundamentally new equipment, system or fundamentally new technique, or other new departure.

4. The landmark in the evolution of the photogrammetry, remote sensing and spatial information sciences to be thus signaled by the Award of the medal shall have proven its worth as a contribution to the advancement of these fields at least two years prior to the Congress at which the Award is to be made and in general not more than some twelve years prior to the Congress.

5. Recommendations for the Award of the medal shall be made in accordance with the following rules:

a. The Council shall, two years prior to each Congress, invite the member societies to submit recommendations for recipients of the Award.

b. Every recommendation for the Award shall be made by two individuals who adhere to the ISPRS through any of the forms of membership and who are neither of the same nationality as their candidate nor of the same nationality as one another.

c. Recommendations shall be in respect of an individual and not of a group of individuals nor of any organization or commercial firm. However, as many advances in the photogrammetry, remote sensing and spatial information sciences, and in the execution of

projects and programs, may be largely due to team work, it shall be allowable to recommend the leader or the leading spirit of a team of workers, or such person as the team itself may think has made the most important or outstanding or fundamental contribution to their work.

d. Every recommendation shall be made in writing to the President of the ISPRS and shall be accompanied by documentation and an explanation of the grounds of the recommendation that shall be sufficiently full to enable the Council to evaluate them.

e. The nominators may consult organizations or individuals of the country in which their candidate has been working, who are involved in the photogrammetry, remote sensing and spatial information sciences, and if they do so, they must include in their documentation the advice they have received.

f. Recommendations shall be made only during the period between the close of one Congress and nine months before the opening of the next.

g. All recommendations made prior to one Congress shall lapse at the conclusion of that Congress, whether or not any medal was awarded at it. It is permissible to revive a recommendation that has lapsed by making a fresh recommendation.

6. The selection of the person to receive the medal shall be made by the Council in accordance with the following rules:

a. Any member of the Council who has been recommended for the Award shall not, while their name remains one that can still be considered, take part in the proceedings of selection or be counted as a member of Council for the purpose of calculating the proportion of votes cast under this rule.

b. Nine months before each Congress the Council shall begin to consider all recommendations received to date, and may at the same time consider the merits of the work of any other person (except a member of Council) that the Council itself deems worthy of consideration for the Award. The Council shall complete

its consideration and reach its conclusion in sufficient time to permit the preparation of the medal and its presentation at the Congress.

c. The Council may use whatever procedure it thinks fit to reach its conclusions, provided a final selection is made by vote. In such voting a Councilor of the same nationality as a candidate not yet eliminated shall have no vote and a candidate to be successful must receive the votes of not less than two thirds of those entitled to vote. Votes may be cast in person or by post.

7. The Council shall normally expect to Award one medal at each Congress. It may abstain from awarding a medal at any particular Congress, in which case it may award an additional medal at the Congress next following but not later.

8. The name of the recipient of the medal shall be announced at the Congress, and the medal shall, whenever practicable, be presented in person at the Congress by the President.

9. The medal shall not be awarded posthumously, other than in the exceptional event of the candidate dying after having been selected for the Award, in which case the Council shall decide whether to award the medal posthumously or not at all or to some other candidate.

10. A trust fund shall be established by the American Society for Photogrammetry and Remote Sensing for the provision of the Brock Award medals. The terms of the trust deed and any modifications thereof shall be subject to the approval of the American Society for Photogrammetry and Remote Sensing and by the Council of the ISPRS; it shall contain provisions for the safeguarding of the capital value of the assets and for all accrued interest to be used in the provision of medals. Trustees shall be appointed by the President of the American Society for Photogrammetry and Remote Sensing, which Society shall be responsible to report biennially to the Council of the ISPRS for the proper conduct of the affairs of the trust.

# THE OTTO VON GRUBER AWARD

## **Preamble**

On the initiative of Dr. Ir. W. Schermerhorn, the Board of the ITC Foundation decided on 26th September 1961 to set aside funds for the assignment of a periodic award in memory of Otto von Gruber. The award will be made in accordance with the following amended regulations which have been approved by the Board of Governors of the ITC Foundation and the Council of The International Society for Photogrammetry and Remote Sensing.

## **Regulations**

### **Article 1**

The Award shall be known as the Otto von Gruber Award and consist of a medal and a monetary grant. It will be made every four years to the author of a paper of outstanding merit in the photogrammetry, remote sensing and spatial information sciences. A person may be given the Award only once.

### **Article 2**

An applicant for the Award must meet the following requirements:

- a. The paper shall be written within the four years immediately preceding the year of the Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS) at which the Award is to be presented.
- b. The applicant should not be older than 40 years on the opening day of the Congress and should have an academic degree in one of the disciplines relevant for scientific fields of ISPRS.

### **Article 3**

An applicant for the Award shall submit the paper to the President of the ISPRS at least six months before the opening of the Congress. The paper may be written in any language, but must be submitted to the President in one of the official languages of ISPRS. A copy of the application shall be sent to the Board of ITC Foundation.

### **Article 4**

A jury of individuals shall appraise the papers submitted to the President and, on the basis of a majority vote of the jury members, select the best paper, the author of which shall be the recipient of the Award. The jury shall be composed as follows:

- a. The President of ISPRS (who will have no vote except in the event of a tied vote);

b. Three qualified individuals designated before each Award by the following authorities:

1. The Council of the Deutsche Gesellschaft für Photogrammetrie und Fernerkundung (DGPF).
2. The Council of the United Kingdom Remote Sensing and Photogrammetry Society (RSPSoc).
3. The Rector of the International Institute for Geo-Information Science and Earth Observation (ITC).

c. If two of the jury members mentioned in paragraph b. wish to increase the number of members of the jury, the President of the ISPRS and the previous incumbent of the office each shall name a supplementary member who shall be of nationalities different from each other and different from German and British.

### **Article 5**

The jury is free to decide:

- a. that the Award be made to a person who has not submitted an application provided that the requirements stated in Article 2 are complied with;
- b. that no Award be made when, in its judgement, there is no paper of sufficient merit;
- c. that two Awards be made at one Congress when, in its judgement, the papers of two candidates are of equal merit.

### **Article 6**

The decision of the jury is final.

### **Article 7**

The result of the jury's decision shall be announced at a Plenary Session of the Congress and the Award shall then, whenever practicable, be presented to the recipient in person by the Secretary General or the President.

### **Article 8**

In case any translation of the above regulations gives rise to ambiguity, the English text will be decisive.

*Amendments approved by the Board of Governors of the ITC Foundation on 23rd January, 1986 and the ISPRS Council on 16th April, 1987.*

*Further amendments approved by the ITC Foundation, the UK RSPSoc and ISPRS Council on 17 June 2004.*

# THE U.V. HELAVA AWARD

## **Preamble**

The publisher of the ISPRS Journal of Photogrammetry and Remote Sensing (herein referred to as 'the Journal'), Elsevier B.V., and Leica Geosystems GIS & Mapping, LLC, have agreed to jointly present "The U.V. Helava Award"\* to encourage and stimulate submission of high quality scientific papers by individual authors or groups to the Journal, to promote and advertise the Journal, and to honour the outstanding contributions of Dr. Uuno V. Helava to research and development in Photogrammetry and Remote Sensing. The award will be made in accordance with the following regulations.

## **Article 1**

The award, which consists of a plaque and a grant of SFr. 10,000, will be presented every four years to the author(s) of an outstanding paper on one of the topics included in the scope of the Journal. The recipient(s) of the U.V. Helava Award shall receive the award only once.

## **Article 2**

Candidates for the award shall be authors of a paper written in English, and published exclusively in the Journal during the four year period from 1 January of a Congress year, to 31 December of the year prior to the next Congress (referred herein as 'the evaluation period'). For multiple authored papers, the grant shall be split equally among the authors; only one plaque will be given.

## **Article 3**

A five member jury, comprising experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, shall be proposed by the Editor-in-Chief of the Journal and approved by

the ISPRS Council. Jury members shall be designated by ISPRS Council at its last meeting of the year prior to the Congress, for the four year evaluation period of the award. The Editor-in-Chief of the Journal shall serve as secretary of the jury, without voting rights.

## **Article 4**

The Jury shall select the best paper published in the Journal for each year of the evaluation period (referred to herein as 'best papers'). The author(s) of the best papers shall be announced annually in the Journal, ISPRS Highlights and ISPRS WEB site. Individuals may receive recognition as authors of best papers more than once. At the end of the four year evaluation period, the Jury shall select the most outstanding paper of the four best papers of the evaluation period, for receipt of the U.V. Helava Award. The authors of the three runner-up best papers shall receive a certificate and a one-year free subscription to the Journal.

## **Article 5**

Members of the Jury and the Editor-in-Chief shall not be eligible to receive the U.V. Helava Award or 'best paper' award.

## **Article 6**

The Award shall be presented to the recipient(s) by the President of ISPRS and a representative of each sponsor at a plenary session of the Congress.

*\*The name "U.V. Helava" is used with kind permission from Mrs. Inkeri Helava and Dr. Heikki Helava.*

*Amendments approved by the Award Sponsors and ISPRS Council on 5 April 2004.*

# THE GIUSEPPE INGHELLERI AWARD

## **Preamble**

In 2008 the Italian Society for Surveying and Photogrammetry (SIFET) established an award in honour of Professor Giuseppe Inghilleri.

Giuseppe Inghilleri (1924-1982), full Professor of Geodesy and Photogrammetry, was Head of the Institute of Geodesy at the Politecnico di Torino from 1962 until 1977. His scientific work greatly enhanced the mathematical and statistical foundations of photogrammetry, surveying and mapping science. In 1972, at the ISP Congress in Ottawa, he presented an innovative analytical stereo-plotter, produced in the following years by Officine Galileo. He served as President of the ISPRS Technical Commission II from 1972-1976 and President of the SIFET from 1979 to 1982.

## **Regulations**

### **Article 1**

The award shall be known as the "Giuseppe Inghilleri Award" and shall normally be granted at each Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS).

### **Article 2**

The Giuseppe Inghilleri Award shall consist of a certificate and SwF 2,500, from the Italian Society for Surveying and Photogrammetry. Presentation shall be made at an appropriate event, preferably a plenary session or General Assembly of the Congress.

### **Article 3**

The recipient shall be a person who has significantly enhanced the applications of photogrammetry, remote sensing or spatial information sciences in the 4 years preceding the Congress. All nominations shall be supported by appropriate documentary evidence of the candidate's work.

### **Article 4**

Nominations for the "Giuseppe Inghilleri Award" shall reach the President of ISPRS not later than 6 months prior to the Congress at which it will be presented. Candidates may not self-nominate.

### **Article 5**

The Jury of the "Giuseppe Inghilleri Award" shall consist of:

The President of ISPRS (Chair of Jury)  
The Secretary General of ISPRS  
The President of SIFET or its nominee.

The Jury shall decide no later than 4 months before the ISPRS Congress. The decision shall be made by simple majority. The Jury may decide not to present an award. The decision of the Jury shall be final.

### **Article 6**

No Members of ISPRS Council or the Jury shall be eligible to receive the award.

# THE EDUARD DOLEZAL AWARD

## **Preamble**

In memory of Prof. Dr. Eduard Dolezal, the Austrian Society for Surveying and Geoinformation in 1992 has established an award which will be presented according to the following regulations on the occasion of the Congress of the International Society for Photogrammetry and Remote Sensing, beginning with the 18th Congress in Vienna.

Prof. Dr. Eduard Dolezal was born the son of a weaver on 2 March 1862 in Budwitz, Moravia, studied mathematics and physics in Vienna and in 1889 became a teacher of mathematics at the Technical Secondary School in Sarajevo, Bosnia. In 1905 he was offered a chair in practical geometry at the Technical University in Vienna. Three years later, in 1908, he was elected president of the University.

As early as 1896 he wrote a paper about "The Application of Photography to Practical Measuring Tasks". On 5 May 1907 he founded the Austrian and on 4 July 1910 the International Society for Photogrammetry. He served as first president of ISP until 1926. Dolezal founded the International Archives for Photogrammetry and edited the first six volumes (1908-1923). He also organized the first International Congress for Photogrammetry (24 to 26 September 1913) in Vienna. He died, showered with honors, on 7 July 1955 in Baden near Vienna.

Those who knew Dolezal always spoke highly of his social awareness, his visions, and his methodical work, all of which aimed at international cooperation. Thus it is fitting that this award named after the founding father of ISP (RS) should acknowledge these qualities. The Eduard Dolezal Award specifically encourages activities which, in a well organized way, permanently and effectively promote the photogrammetry, remote sensing and spatial information sciences. His social awareness will be emphasized by considering only candidates from developing and reform countries.

## **Regulations**

### **Article 1**

The Eduard Dolezal Award is a grant for furtherance aimed to assist individuals or representatives of institutions from developing or reform countries to participate in the ISPRS Congress.

### **Article 2**

The Eduard Dolezal Award consists of a certificate provided to ISPRS by the Austrian Society for Surveying and Geoinformation, complimentary registration provided by the respective Congress organizer, and a limited travel and expense grant from the Eduard Dolezal Fund. The grant is to cover travel and residence expenses for at least one participant to attend the Congress. In the case of short distance journeys, multiple grants may be awarded.

### **Article 3**

The Austrian Society for Surveying and Geoinformation shall serve as trustee to the Eduard Dolezal Fund. The amount of grant funds available for distribution will be communicated to ISPRS Secretary General nine months before each ISPRS Congress.

### **Article 4**

Applications or nominations must include all the particulars noted in Article 5 and must be filed with ISPRS Secretary General no later than seven months before the beginning of an ISPRS Congress.

### **Article 5**

Candidates for the Eduard Dolezal Award must meet the following requirements:

1. They shall have completed their studies in one of the branches represented by the ISPRS Commissions, with the foundation of their education in the subjects covered by the photogrammetry, remote sensing, and spatial information sciences.
2. They must present documentary evidence which demonstrates that they have permanently implemented a practical application of photogrammetry, remote sensing or GIS in an efficient manner; or which documents their outstanding success in a field that supports the photogrammetry, remote sensing and spatial information sciences.
3. They must be citizens of a developing or reform country.

### **Article 6**

If multiple Eduard Dolezal Awards are granted, the winners must be of different citizenships.

#### **Article 7**

The jury for the Eduard Dolezal Award shall consist of:

1. The President of ISPRS (head of jury).
2. The Secretary General of ISPRS.
3. The President of the Austrian Society for Surveying and Geoinformation or its delegate to the ISPRS General Assembly.
4. A representative of the United Nations.

The jury shall decide no later than five months before the beginning of an ISPRS Congress. Decisions will be made by a majority. In the case of a tie, the head of jury casts the deciding vote.

#### **Article 8**

The Eduard Dolezal Award will be granted on the occasion of the ISPRS Congress by the President of ISPRS jointly with the delegate of the Austrian Society for Surveying and Geoinformation. The founding of ISPRS by Prof. Dr. mult. Eduard Dolezal shall be called to mind during presentation of the Award.

*Amendments approved by Austrian Society and ISPRS Council on 21 August 2003*

## **THE SCHWIDEFSKY MEDAL**

#### **Preamble**

The Deutsche Gesellschaft für Photogrammetrie und Fernerkundung (DGPF) decided to present an award in memory of Prof. Dr. rer. techn. Dr.-Ing. E.h. Kurt Schwidefsky, honorary member of the International Society for Photogrammetry and Remote Sensing (ISPRS), which is called the (Schwidefsky Medal).

This medal will be awarded according to the following conditions:

#### **Article 1**

Normally, the medal shall be awarded at each Congress of the International Society for Photogrammetry and Remote Sensing.

#### **Article 2**

At any Congress the medal may be awarded to no more than two candidates (at the most).

#### **Article 3**

The medal, manufactured in porcelain, will be presented to the recipient together with a certificate issued by the Deutsche Gesellschaft für Photogrammetrie und Fernerkundung.

#### **Article 4**

Nominations shall be submitted to the ISPRS President no later than six months prior to the Congress at which it will be presented. Candidates may self nominate.

#### **Article 5**

Recipients shall be persons who have made significant contributions to the photogrammetry, remote sensing and spatial information sciences, either through the medium of publication as author or editor, or in another form.

#### **Article 6**

The Award is decided on by a selection committee consisting of the President of the Deutsche Gesellschaft für Photogrammetrie und Fernerkundung, the President of ISPRS and the Secretary General of ISPRS.

#### **Article 7**

The medal will be awarded at an appropriate event of the Congress.

*Bonn, November 1986*

*Amendments approved by the DGPF and the ISPRS Council on 1 April 2004*

# THE SCHERMERHORN AWARD

## **Preamble**

In 1988 the "Nederlandse Vereniging voor Fotogrammetrie" instituted the Schermerhorn Award in memory of Prof. Dr. Ir. Willem Schermerhorn for the promotion of international activities in various areas of specialization of the photogrammetry, remote sensing and spatial information sciences.

## **Article 1**

The scientific, technical and professional achievements of ISPRS depend to a very large extent on the results presented by working groups at symposia and congresses. Activities of working groups are the cornerstone of the functioning of ISPRS. The Schermerhorn Award will recognize contributions on the working group level.

## **Article 2**

The Schermerhorn Award is granted to a member of a working group who, through his/her commitment, has achieved extremely worthwhile and successful scientific meeting(s) of a very high level, gaining sufficient interest (participation by several countries) and good reporting throughout the four year period up to an ISPRS Congress.

## **Article 3**

The Schermerhorn Award shall consist of a plaque and monetary grant of 1,250 SFr. provided by the Society "Geo-Information Netherlands".

## **Article 4**

Normally, the award shall be presented to the winner at each quadrennial Congress of ISPRS.

## **Article 5**

The Jury of five individuals is composed of the President of ISPRS (Chairman), a board member of Geo-Information Netherlands, the Rector of ITC, and a professor in the field of Photogrammetry, Remote Sensing and GIS of Wageningen University and Research Centre, and of Delft University of Technology.

## **Article 6**

Nominations for the Award shall reach the President of ISPRS not later than six months prior to the Congress at which it will be presented. The Jury may itself nominate candidates. Candidates may not be nominated by themselves.

## **Article 7**

The Jury may decide not to present any award. Decisions are made by simple majority vote. In case of a tie, the vote of the Chairman is the decision. The decision of the Jury is final.

*Amendments approved by GIN and ISPRS Council in April and ratified by ISPRS GA in July 2004*

# THE SAMUEL GAMBLE AWARD

## **Preamble**

In 1984 the Canadian Institute of Geomatics (formerly Surveying and Mapping) resolved to sponsor an award in honour of Dr. Samuel G. Gamble, former President of the International Society for Photogrammetry and Remote Sensing and Director of the 1972 Congress. Establishment of the award was approved by the Council of the International Society for Photogrammetry and Remote Sensing in March 1985. The award is to be granted according to the following regulations:

## **Regulations**

### **Article 1**

The award shall be known as The Samuel Gamble Award, and it will be granted at each Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS).

### **Article 2**

Up to three awards may be made at each ISPRS Congress.

### **Article 3**

Nominations shall be submitted to the ISPRS Secretary General no later than six months prior to the Congress at which it will be presented. Candidates may not self nominate.

### **Article 4**

A recipient of the award shall be a person who, like Dr. Gamble, has contributed significantly to the development, organization or professional activities of the photogrammetry, remote sensing and spatial information sciences, at the national or international level.

### **Article 5**

The award shall consist of a certificate, issued by the Canadian Institute of Geomatics.

### **Article 6**

The recipient(s) of the award shall be selected by a selection board consisting of the President of the Canadian Institute of Geomatics, or his or her nominee, and two individuals appointed by the Council of ISPRS.

### **Article 7**

No member of the Council of ISPRS shall be eligible to receive the award while serving on the Council.

### **Article 8**

The award shall be presented at an appropriate event of the ISPRS Congress.

*Amendments approved by the CIG and the ISPRS Council on 5 April 2004*

# THE WANG ZHIZHUO AWARD

## **Preamble**

The Chinese Society of Geodesy, Photogrammetry and Cartography (CSGPC) decided in 2004 to present a periodic award for encouraging advancement of the spatial information sciences in memory of Prof. Dr. WANG Zhizhuo, initiator of photogrammetry and remote sensing in China, Professor and Honorary President of Wuhan Technical University of Surveying and Mapping, a senior Academician of the Chinese Academy of Science, and elected Honorary Member of the International Society for Photogrammetry and Remote Sensing (ISPRS) in 1988.

## **Regulations**

### **Article 1**

The award shall be known as The Wang Zhizhuo Award and shall consist of a medal and a monetary grant (SwF 2,500). It will be granted at each quadrennial ISPRS Congress to a person who has made significant achievement or innovation in the spatial information sciences.

### **Article 2**

The significant achievement or innovation in the spatial information sciences shall be a proven contribution of

whatever form; whether a fundamentally new theory or algorithm, a major completed program or project, some or a fundamentally new application. The value of the achievement or innovation should be proven not less than two years or more than twelve years prior to the Congress at which the award is to be presented.

#### **Article 3**

The ISPRS Council shall issue an invitation for nominations of candidates to all Ordinary, Regional and Associate Members two years in advance of each Congress. Nominations are to be submitted in writing to the President of ISPRS at least six months in advance of the Congress and shall be accompanied by documentation describing the proven contribution in sufficient detail to enable full evaluation by the ISPRS Council. Candidates may not self nominate.

#### **Article 4**

The selection of the person to receive the award shall be decided by the ISPRS Council. The ISPRS Council may use whatever procedure it thinks fit to reach its conclusion, provided the final selection is made by unanimous vote.

#### **Article 5**

The name of the recipient of the award shall be announced at the Congress, and the award shall be presented to the person at an appropriate event of the Congress by a member of Council of ISPRS and a representative of the CSGPC.

*Award approved by the Council and ratified by the General Assembly in Istanbul, July 2004*

## **THE KARL KRAUS MEDAL**

#### **Preamble**

The "Karl Kraus Medal" is a prize to honour the authorship of excellent textbooks in the scientific fields of Photogrammetry, Remote Sensing, and Spatial Information Sciences. The prize is dedicated to the memory of Professor Karl Kraus, a passionate teacher and author of a number of textbooks.

#### **Regulations**

##### **Article 1**

The "Karl Kraus Medal" is awarded to authors of excellent textbooks in the fields of Photogrammetry, Remote Sensing, and Spatial Information Sciences, written in one of the official languages of the ISPRS, and published no more than eight years prior to the commencement of the quadrennial ISPRS Congress at which it is to be presented. On each occasion a maximum of two prizes can be awarded.

##### **Article 2**

The prize shall consist of a medal and a certificate.

##### **Article 3**

The prize shall normally be awarded at each ISPRS Congress by the President of the ISPRS and a representative from the donating organizations: the German Society of Photogrammetry, Remote Sensing, and Spatial Information Sciences (DGPF), the Austrian

Society of Surveying and Geoinformation (OVG), and the Swiss Society of Photogrammetry, Image Analysis, and Remote Sensing (SGPBF).

##### **Article 4**

Nomination of authors of textbooks from an Ordinary Member of the ISPRS, or by authors themselves, together with three copies of the nominated textbook, shall reach the General Secretary of ISPRS not later than six months prior the ISPRS Congress at which it shall be presented.

##### **Article 5**

The jury for the prize shall consist of:

1. a person, nominated by ISPRS Council and the President of ISPRS Technical Commission VI, who is responsible for education in one of the areas of activity of ISPRS,
2. the chair of the Student Consortium of ISPRS, and
3. the chair, who shall be nominated by the three donating societies.

##### **Article 6**

The jury may consult experts prior making its decision, which shall be final. The jury is free to decide that no prize shall be made if there are no textbooks of sufficient merit.

# GUIDELINES

## CANDIDATES FOR MEMBERS OF THE COUNCIL

Individuals from any Member organization are eligible for nomination and election to positions on Council, but there are some practical considerations which must be taken into account.

1. Service as a member of the ISPRS Council is considered an honour. That means that it does not provide any salary to the incumbent. It is also a time-consuming function. The President, the Secretary General, and the Congress Director could easily spend full time on the tasks. However, realistically, one quarter to one half time is required by these positions. The two Vice Presidents and the Treasurer find that somewhat less time is required. Potential members of Council must be prepared to make these commitments of time.

2. It is essential that Council Members, particularly the President and Secretary General, are provided with secretarial assistance, preferably multilingual, but as a minimum fluent in one of the official languages of the Society - English, French and German. Experience has shown that about half time help is required. In general it has not been possible for the Society to pay salaries for secretarial assistance. Consequently it is necessary that the Member association or the Council member's employer is prepared to provide this amount of secretarial help.

3. Council members are required to attend a minimum of one Council meeting per year. These will usually rotate between the home locations of the officers. It

is also desirable that Council members, particularly the President, Secretary General and Congress Director attend some or all of the inter-Congress Technical Commission symposia. This means that Council members must be free to undertake international travel.

4. The Society operates on a very limited financial basis. It is therefore very useful if the officer's Member association or employer is prepared to support the international travel expenses required. However, no worthy individual would be rejected as a Council member because of inability to provide his/her own travel expenses.

5. Financial arrangements for the Society's Congress are the total responsibility of the host member. The Congress Director's related expenses for travel, secretarial assistance, communications, etc. should be included in the Congress budget.

6. Annual assessments of Members to the Society are paid in Swiss francs. These funds are during the current administration deposited in a Swiss bank account. It may also be feasible to have a bank account under the name of the Treasurer, and in his/her home location. Because the Society expenditures are international in scope, it is essential that the Treasurer be from a nation having freely convertible currency.

Members planning to nominate Council members should keep these considerations in mind.

# GUIDELINES

## MEMBERS PLANNING TO HOST AN ISPRS CONGRESS

Member organizations willing to host a Congress of the International Society for Photogrammetry and Remote Sensing should consider the following items which are looked upon as prerequisite for a successful Congress operation:

1. The Member organization should designate an individual to serve as Congress Director who will have final responsibility for all aspects of the Congress operation. The Congress Director will establish a Congress committee which will organize the technical program, the financial aspects, the secretarial work, the scientific exhibit, the technical tours, the social events, the program for family members, and attend to special tasks such as press relations, travel bureau relations, etc.
2. The Member organization will have complete financial responsibility for all aspects of the Congress organization. The Society does not provide any funds for this purpose. Although budgeting arrangements will differ from one member to another, it has been customary that one-third of the Congress expenses is met by registration fees for individual participants, one-third by the fees paid by commercial exhibitors, and one-third by government subsidies with a total budget of about 3.5 million Swiss Francs.
3. In order to accommodate the Congress, the following physical facilities are required:
  - a. Hotel accommodation and restaurant facilities for approximately 2,000 persons with access to the meeting facility by public transport.
  - b. One large meeting room for the opening ceremonies and plenary sessions to accommodate approximately 2,000 persons with simultaneous.
  - c. At least two meeting rooms for technical sessions with a capacity of approximately 500 persons in each room, and with simultaneous interpretation capability for the official languages of the Society.
  - d. One room with capacity of 200 to 300 and simultaneous interpretation for the General Assembly. This room may also be used for technical commissions provided there is no time conflict.
  - e. Several smaller meeting rooms without simultaneous interpretation for other technical commission meetings.
  - f. A small office for each of the eight Technical Commission presidents and secretaries.
  - g. Small meeting rooms or offices to conduct the business of the Council of ISPRS. Typing and copying service for the President and Secretary General.
  - h. An exhibit hall to accommodate a net commercial exhibit of about 3000 m<sup>2</sup>.
  - i. Exhibit space of about 1000 m<sup>2</sup> to accommodate scientific exhibits and poster sessions.

# GUIDELINES FOR HOSTING A TECHNICAL COMMISSION

Ordinary Member organizations willing to host a Technical Commission should consider the following requirements.

1. The responsibilities and the main tasks of a Technical Commission are well defined in Statute XIII and Bylaw XIII of ISPRS.

2. The Member organization will have complete financial responsibility for all expenses incurred by the work of the Commission. Before submitting an application to the Society for a Commission, the Member must ensure that the necessary resources are available.

3. Members wishing to host a Technical Commission for the next four-year period shall submit an application to the Secretary General. It shall contain the name of the proposed Technical Commission President (TCP) and a provisional plan for financial arrangements.

4. The TCP should be able to spend considerable time on Commission work, especially during the months prior to the Symposium and the next Congress. The tasks of the Commission Secretary should be undertaken by a person who can work in close cooperation with the TCP.

5. It is essential that the Commission Board be provided with English speaking secretarial assistance. About 30 percent of the secretary's time will be needed for Commission affairs.

6. Technical Commissions are expected to host a Symposium in the second year between Congresses (See Appendix A.2 "Guidelines for Planning ISPRS Symposia"). The subject matter is to be related to the field of the Commission. When a Symposium is convened in a developing country the topics of other Commissions may be included in the Symposium, if pre-approved by Council. The Member organization must accept full responsibility for the financing of the Symposium. Registration fees may be charged as appropriate. A technical exhibit may be arranged, preferably within the scope of the Commission.

7. An ISPRS surcharge, the level of which will be determined by Council, will be imposed on all registrations at Commission Symposia, to contribute towards the costs of running the Society and introducing new developments.

8. The TCPs must be free to undertake international travel. They will be expected to attend joint meetings with the Council of the Society annually between

Congresses. Also it may be necessary to hold Commission Board meetings with Working Group Chairpersons. All travel expenses of the TCP must be financed by the host country.

9. ISPRS Council and Honorary Members, the Chairperson of the Financial Commission and the Editor of the ISPRS Journal are entitled to register at Commission Symposia and Working Group meetings free of charge. It is expected that free accommodation will be provided to Council during the Symposium.

10. One of the Technical Commissions is expected to invite Council and Technical Commission Presidents to Council and Joint Meetings (comprising Council and Technical Commission Presidents and Secretaries) in conjunction with its Symposium. These meetings are normally scheduled for the last Symposium in the year, and have a duration of three to four days.

11. Reports on Symposia, assessment of the performance of the Commissions, and planning for the forthcoming Congress will be important items of consideration at the Joint Meeting.

12. Before the General Assembly of ISPRS decides to allocate a Commission to an Ordinary Member, the proposed TCP shall present to the General Assembly the envisioned scientific and technical program for the Commission for the forthcoming four-year period.

13. The General Assembly will, in its election of Technical Commission hosts, consider the merits and experience demonstrated by the proposed TCP in activities such as having been the Chairperson of a Working Group, author of an invited paper, etc.

14. The proceedings of each Commission Symposium shall be published in the prescribed format as a Part of the Volume of The International Archives of Photogrammetry and Remote Sensing.

15. The TCPs are asked to support the Editor of the ISPRS Journal, for example, in soliciting technical papers, and serving as a referee of papers.

16. The TCPs are required to prepare an Annual Report as outlined in Appendix B.5, and are to ensure that summary reports of their Commission and WG events are submitted promptly for publication in ISPRS Highlights.

17. Furthermore, the TCPs are responsible for conformance by Working Group Chairpersons to the "Guidelines for Conducting a Working Group".

18. The Technical Commission V President, or a Council designee, will be an ex-officio member of the CIPA Committee, and as such will be required to attend the biannual meetings of the CIPA Committee.

19. Outgoing TCPs should be prepared to attend the post Congress Joint Meeting of Council and incoming TCPs if deemed advantageous to the operations of the Commission.

## GUIDELINES FOR CONDUCTING A WORKING GROUP

The President of a Technical Commission (TCP) and the Chairpersons of the Working Groups should consider the following requirements:

1. The TCP shall be fully responsible for organizing the Working Groups and selecting the Chairpersons/Co-Chairpersons taking into consideration for the resolutions which have been approved by the General Assembly.

2. The TCP shall use his/her leadership to guide the Chairpersons/Co-Chairpersons in well defined directions with respect to the terms of reference.

3. The TCP shall suggest that the Chairpersons/Co-Chairpersons select active members of a Working Group after consideration of the talents and achievements of the members and the international balance of the group.

4. The Chairpersons/Co-Chairpersons shall be financially capable of attending the mid-term symposium of the relevant Technical Commission as well as the following Congress to report on Working Group activities.

5. Each WG Chair or Co-Chair shall organize one or more workshops, conferences or tutorials, preferably in odd-numbered years but at least four months from the mid-term symposia between the Congresses, in cooperation with the TCP. The dates for such meetings shall be approved by the Secretary General of the Society.

6. The Chairpersons/Co-Chairpersons shall recommend to the TCP candidates to present invited papers at the mid-term Symposium and/or the Congress.

7. The Chairpersons/Co-Chairpersons shall report annually to the TCP according to Bylaw XIII, 13. In addition, the Chairperson/Co-Chairpersons shall report on the WG activities at the mid-term Symposium and the Congress.

8. The TCP shall review and evaluate the activity of each Working Group and report to the Council annually.

9. The TCP may replace in consultation with the Council, any Chairperson who has not been active and who has not contributed to the work of the Commission.

10. The TCP may reorganize the Working Groups in consultation with Council.

11. The TCP shall communicate with the Ordinary Member correspondents concerning the Working Group activities of the Commission.

12. The TCP shall organize a Resolutions Committee in cooperation with Working Group Chairpersons/Co-Chairpersons and prepare draft scientific and technologic Resolutions for consideration before the last Joint Meeting of TCPs with Council. The Resolutions shall conform to the standard form of the "Guidelines for Proposing ISPRS Resolutions". The TCP shall submit a final draft of Resolutions to the First Vice-President in due time for the Congress.

# TERMS OF REFERENCE FOR SUSTAINING MEMBERS

1. Sustaining Members are individuals, organizations, institutions or agencies who manufacture or distribute instruments, equipment or supplies, or who operate or provides services in the fields of photogrammetry, remote sensing and/or GIS, or who are engaged in research and/or education, and who contribute to the financial support of the Society.

2. Sustaining Members shall pay an annual fee according to the invoice from the Treasurer at the beginning of each calendar year. There shall be four categories as follows:

## Category

<b>A</b>	more than 750 employees	3,400 Swiss Francs
<b>B</b>	101 - 750 employees	1,725 Swiss Francs
<b>C</b>	26 - 100 employees	920 Swiss Francs
<b>D</b>	1 - 25 employees	460 Swiss Francs
<b>E</b>	Educational Institution	250 Swiss Francs

Sustaining Members are encouraged to increase their contribution but such additional contributions will not change the category of membership. A Sustaining Member who is more than two years in arrears shall be dropped from the rolls.

3. Applicants for status as Sustaining Members shall file with the Secretary General a written statement (less than 1000 words) describing their photogrammetric and/or remote sensing activities. Applicants shall commit to membership for a minimum of four years. Application shall be approved unless two or more members of Council submit objections in writing. Any such objections shall be forwarded to the applicant who shall have right of rebuttal.

4. The Secretary General will maintain a list of current Sustaining Members and the description of their activities. This information will be printed in appropriate Society publications. A Sustaining Member may revise the description of activities whenever it may be necessary.

5. At an appropriate time near the end of each Congress, the current Congress Director will schedule a meeting of the Sustaining Members to review the exhibit and other congress activities. The current Congress Director or his representative shall preside at this meeting. The incoming Congress Director will be an observer.

6. Approximately two years before each Congress, the Secretary General will schedule and invite to a meeting of the Sustaining Members at an appropriate time and place. A preliminary agenda for the meeting will be attached to the invitation. A member of the ISPRS Council, preferably the Congress Director, shall preside at this meeting. Not less than 8 weeks before this meeting the Congress Director will distribute to the Sustaining Members a written description of the plans for the next Congress.

7. Not less than 4 weeks before the inter-Congress scheduled Meeting, Sustaining Members shall inform the Secretary General in writing of any items they wish included on the agenda and the name of their delegate. Voting by proxy shall be allowed provided it is designated in writing to the Secretary General in advance of the meeting. For the Congress meeting, designation of delegates and proxies may be made during the Congress.

8. At any meeting of the Sustaining Members, the number of votes will be determined by membership category as follows:

Category	A	B	C	D-E
Votes	8	4	2	1

In matters related to the Congress, deliberations of Sustaining Members shall be advisory only; the Congress Director has final authority for all Congress plans.

9. Sustaining Members will be provided with a suitable Certificate and shall have the right to indicate in their business and professional publications that they are Sustaining Members of ISPRS.

10. Amendments to these Terms of Reference which do not result in conflict with articles in the Statutes and Bylaws may be adopted by majority vote at any meeting of the Sustaining Members.

11. The Council recommends that the Congress Director provide exhibition space at the Congress Sustaining Members at a discount rate.

# **ISPRS**

2008

## **OBITUARIES**

Georges Masson d'Autume

Madeleine Godefroy

Robin Letellier

Chor-Pang (C.P.) Lo

Y.C. Lee

Karl Kraus

Alden Partridge Colvocoresses

# OBITUARIES

## Georges Masson d'Autume (1916 - 2006)

It is with deep sadness that we have been informed of the death of Georges Masson d'Autume on 14th of January 2006. He was an Honorary Member of ISPRS since 1976 and remembered as a great photogrammetrist who has contributed to major developments in aerial triangulation, DEM generation and space imagery modelling.



Georges Masson d'Autume was born in Cherbourg, France on 1<sup>st</sup> December 1916. He graduated from the Ecole Polytechnique (promotion 1935) and he began his career in the French Army at the Ecole d'Application d'Artillerie de Fontainebleau (Artillery Application School of Fontainebleau) during two years (1937-1939) and participated to the French Campaign in 1940. He was sent in 1941 to Dakar (Senegal) in the Service Géographique de l'AOF (Geographic Survey of the French Western Africa) and he discovered the interest of aerial photography (still unknown at this time in Africa) with pictures taken by the American Army and developed a dedicated method to use these images.

In 1945, as the Service Géographique de l'AOF became part of IGN, Georges Masson d'Autume joined the corps of Geographic Engineers. Back in France (metropolitan) in 1946 he spent a few months at Ecole Nationale des Sciences Géographiques (National School for Geographic Sciences) before being appointed at the Research Department of the Photogrammetry Service of IGN.

In 1948 he presented a new method of aerial triangulation at the SIP Congress in The Hague and until 1964 he worked on the theory of photogrammetry for improving its accuracy while compensating the different error sources. In parallel he developed new photogrammetric devices, as easy to use and as accurate as possible for medium scale mapping, such as the Stereoflex (constructed and marketed by SOM) and elaborated new efficient procedures presented at the Stockholm Congress in 1956 and used during many years by IGN, especially overseas. He was always aware

of the new technologies and open-minded and when he discovered computer science he directly understood its potential for photogrammetry. Under his leadership IGN could then develop, test and operationally use all phases of analytical aerial triangulation techniques.

This work had been internationally acknowledged and he was elected President of Commission III of ISP for the 1960-1964 period.

Scientific councillor at the Headquarters, Logistics Director, then President of the Scientific and Technical Research Committee, he had always worked for IGN, continuing his researches in photogrammetry even after his retirement in October 1982.

He published many scientific papers, most of them in the Bulletin de la SFPT and in the ISPRS Archives but also in Photogrammetria or the Canadian Surveyor.

One can mention his researches on spline functions and their applications to photogrammetry (for DEM generation, data filtering, error modelling, bundle adjustment) presented at the Helsinki Congress in 1976 and on the new sensors and especially SPOT. As soon as 1978 he developed accurate geometric modelling to be used for image calibration and correction and new DEM generation techniques based on automatic correlation along quasi epipolar lines. His work will then be adapted for SPOT images processing.

In December 1982 he received the prestigious Laussedat Prize given by the French Academy of Sciences for his work in photogrammetry.

Georges Masson d'Autume was highly thought by his colleagues, in France and abroad, always available to explain and discuss his ideas and to encourage and help students or young researchers (I was lucky to be one of them in the eighties).

ISPRS has lost one of its older members and even if not very well known by the youngest Georges Masson d'Autume should be recognized as an outstanding researcher by our photogrammetry and remote sensing community.

## Madeleine Godefroy (-2006)

On Thursday 28<sup>th</sup> September in the evening, and during the EARSeL SIG-meeting on Land Use and Land Cover in Bonn, Germany, the sad news came to us that our dear former secretary Madeleine Godefroy passed away in a Hospital in Caen, France.



Madeleine served our Association for more than 24 years. Besides running EARSeL's secretariat, she was organising the annual symposia and the numerous workshops of the association and collecting articles for the Newsletter.

Everybody who joined EARSeL meetings knew Madeleine; she did the reception of the participants and guests at "her" reception desk. She was the friendly and kind lady who welcomed everybody. In other words Madeleine was the face of the Association. She was also called "the mother of the Association", and indeed she was. She worked for EARSeL almost as

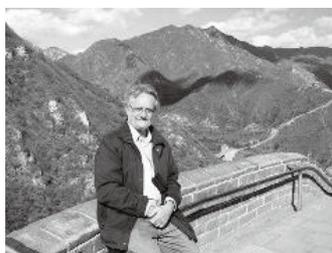
long as the existence of the Association itself.

Madeleine's first intention was to retire in 2002 after the Prague Symposium, but then Gent came in 2003, and Dubrovnik and Cairo in 2004, all places she still wanted to see and see the EARSeL events take place. EARSeL was her association, and she could difficultly say goodbye from the job. She decided finally to retire after the Porto Symposium in 2005. Unfortunately a couple of weeks before the doctors discovered a cancer, and due to the heavy medical treatment, Madeleine could not make it to Porto. But Madeleine was fighting against her illness. Last June she came to the Warsaw meeting, and there we could honour her for all these years of service to the association. Madeleine was in an excellent condition and we thought her illness was over. Unfortunately in August the doctors discovered seedings of the cancer. This fight Madeleine lost last Thursday 28 of September.

We will especially remember Madeleine for her warm personality, her kindness, willingness and her devotion towards EARSeL.

## Robin Letellier (1944 - 2007)

It is with much sadness that I need to inform of the unexpected passing of Robin Letellier. Robin was lecturing in the USA and suffered a stroke as a result of this he passed away. Many members of CIPA have lost a dear friend and colleague. He was a tireless supporter of CIPA and its objectives, serving on the committee for many years in various capacities including Vice President.



Robin Letellier received a B.A. in Architecture from Laval University, Quebec City, in 1969. He was Chief of Architectural Documentation Services, Heritage Conservation Program for Parks Canada between 1970 and 1997. Between 1974 and 1999, he was the Canadian delegate to the ICOMOS International Committee for Architectural Photogrammetry (CIPA).

Robin is a founding member of the Recording and

Documentation Committee of ICOMOS Canada, and was Chair of the Committee between 1983 and 1991. Between 1984 and 1999, he lectured annually at the ICCROM Centre (Rome) on the subjects of architectural documentation and information management. Since 1996, as management consultant he has been assisting national and international conservation organizations with improving their operations. Recently, he has been promoting new conservation management practices through presentations, seminars, and workshops in Japan, Thailand, Laos, Philippines, Indonesia, Brazil, Italy, Austria, Poland and Slovenia.

He was working with the Getty Conservation Institute to develop a Bridging-the-Gap initiative towards creating partnerships between international conservation organizations (i.e. ICOMOS, UNESCO, ICCROM, CIPA, GCI, etc.) to improve heritage conservation standards and practices and publishing a book entitled Recording, Documentation and Information Management for the Conservation of Heritage Places - Guiding Principles.

## Chor-Pang (C.P.) Lo (1939 - 2007)

On December 30, 2007, Professor Chor-Pang (C.P.) Lo passed away in Athens, Georgia, USA at the age of 68. He had been ill for the last three years with lung cancer.



Professor Lo was an internationally known geographer who made seminal contributions to urban remote sensing and the development of geographic information system approaches for examining human-environment interactions. He pioneered the use of Landsat data for land cover mapping in China, in particular, the Hong Kong-Pearl River Delta Region. He conducted research on population estimation using aerial photography, Large Format Camera photography, MSS, TM, SPOT, DMSP-OLS, and Shuttle Imaging Radar images for the city of Hong Kong as well as settlements in China and USA. His recent NASA-funded work on land use and heat island effect in Atlanta, Georgia, attracted considerable attention from the news media. He demonstrated how remote sensing, in conjunction with geographic information systems and census statistics, can be used to reveal the spatial impact of human societies on the environment and to facilitate our understanding of social processes. Professor Lo's research was regarded as a major effort to bridge physical, social, and remote sensing sciences.

Professor Lo was a prolific scholar and author with numerous publications that appeared in some premier remote sensing, geographic information science, and geography journals. He authored or co-authored 11 books including three major textbooks on remote sensing or geographic information systems (Applied Remote Sensing, Longman, 1986; Concepts and Techniques in Geographic Information Systems, Prentice Hall, 2002, 2007) that have been adopted by many universities in the United States and other countries.

Professor Lo had also made significant contributions to remote sensing, geographic information science,

and geographic education. He taught remote sensing and GIS courses at the University of Hong Kong and the University of Georgia for nearly 40 years. At the University of Georgia, Professor Lo directed nearly 30 Ph.D. and Master's degree students, who themselves became successful academics. His dedication to urban remote sensing and human-environment interactions inspired a new generation of scholars working to better understand the complex, dynamic urban environment.

Born in Hong Kong in 1939, Professor Lo studied geography at the University of Hong Kong, where he received the B.A. (First Honors, 1963) and M.A. (1966). During 1968-1971, he was a Commonwealth Scholar pursuing his Ph.D. in Geography and Photogrammetry at the University of Glasgow in UK. Before joining the Faculty at the University of Georgia in 1984, he was a Reader at the University of Hong Kong. He was promoted to the rank of Full Professor in 1988.

His honors included the William A. Owen Award in Creative Research given by the University of Georgia (2001), the Medal of Outstanding Contributions to the science of Remote Sensing and the discipline of Geography given by the Remote Sensing Specialty Group of the Association of American Geographers (2001), Research Honors Award (2002) and the Lifetime Achievement Award (2005) given by the Southeastern Division of the Association of American Geographers, and the Distinguished Service Award given by the China Specialty Group of the Association of American Geographers (2005).

Professor Lo was a member of the Association of American Geographers, the American Society for Photogrammetry and Remote Sensing, the Remote Sensing Society, the British Photogrammetric Society, and the Society of Sigma Xi.

Professor Lo was preceded in death by his father, Chik Sang Lo and his brother Chor Yuk Law. He is survived by his mother, Lai Ying Lo, Hong Kong; his wife, Christine Lo, and son, Wai-Kit Lo, both in Athens, Georgia; his sister-in-law, Wing Yee Law, his nephew, Wher Wai Tong Law, and niece, Helen Chi Po Law, all in Hong Kong.

## Y.C. Lee (1948 - 2004)

It is with great sadness that we announce the passing of our colleague Prof. Y.C. Lee. He died on June 23, 2004 in Fredericton, NB, Canada after a long battle with cancer. He served as Vice-President of ISPRS TC IV during 2000-2004, Co-Chair of IC WG IV/III.1



during the 1996-2000 and Guest Co-Editor of the September 2000 ISPRS Journal issue Vol. 55, No. 3.

Yuk-Cheung Lee, known to all as Y.C., was born on 30 March 1948. He went to the University of New Brunswick (UNB), in 1977 after receiving a Bachelor of Science in Computer Science from Simon Fraser University. His Masters thesis was 'A Topological Data Structure for Polygonal Maps'. He graduated in May 1980.

In 1981 he began his Ph.D. with the Surveying Engineering department (now Geodesy and Geomatics Engineering). He was a part-time student and parttime programmer analyst with Dr Sam Masry. The work he did with Dr Masry was to design and implement a digital land information system for resource mapping. His dissertation was on 'Conceptual Models for Geographic Information Systems'. Dr Masry and Y.C. built a Geographic Information System that today is the basis of Dr Masry's company, originally called Universal Systems Limited and now called CARIS. Y.C. graduated with his Ph.D. in 1987.

In September 1986, Y.C. was appointed as a lecturer in the Department of Surveying Engineering. In July 1987 he was appointed an assistant professor in the same Department and in July 1991 he was promoted to associate professor. He received a UNB Merit Award for 1991/92. He was granted tenure in July 1992 and in July 1996; he was promoted to the rank of professor.

In 1995, Y.C. took a two-year leave of absence to take up a Professorship position in the Department of Land Surveying and Geoinformatics, Hong Kong Polytechnic. He felt he could take UNB's values, curriculum, and teaching ideals for the advancement of geographic information systems being developed in China, Australia, and Hong Kong. He was there on the beginnings of the GIS undergraduate and graduate

programs at the Hong Kong Polytechnic. Y.C. Stayed in Hong Kong for two more years and while at Hong Kong Polytechnic, in 1999 Y.C. won that university's President's Achievement Award.

He returned to UNB in August 1999 and took on the duties of Director of Graduate Studies (DoGS). He held the DoGS position until February 2002 when he underwent the first of a number of operations for cancer.

Y.C. was a gifted teacher concerned with developing innovative teaching methods to explain difficult concepts. His students, who consistently gave him excellent opinion surveys, appreciated his efforts. He was in demand as a community and regional speaker because he was so capable of making complicated material simple to grasp. He had a wonderful ability to formulate and articulate concepts.

In his own words, this is how Y.C. saw his arrival at UNB:

Before immigrating to Canada from Hong Kong, I spent a year at ITC in the Netherlands studying cartography. A computer cartography course there in 1973 intrigued me, and I asked staff members and students at ITC where I should go for further studies in Canada. There seemed to be one clear answer: UNB. After landing in Vancouver in 1974 and holding two jobs in drafting, I entered Simon Fraser University and in 1977 obtained a BSc in Computing Science with a minor in mathematics. I hadn't gone straight to UNB because of a miscommunication between my aunt, who thought I should stay in Vancouver, and myself who fully intended on heading east. My aunt won, for a while, but then it was time for UNB. I applied to the Department for a Masters degree, and was encouraged to enter a joint program with Computer Science because of my BSc. I took that suggestion and thought that after the MSc I would go elsewhere, perhaps Ottawa, to find a job. Well, things didn't work out that way!

Y.C. was a very talented photographer and some of his work can be see at <http://www.pbase.com/ycleepersonal>. A scholarship has being established in Y. C.'s memory (<http://gge.unb.ca/Alumni/News/News.html#LeeMemorial>). Y.C. was an excellent colleague, teacher, researcher and a good friend to many of us in ISPRS community. He will be dearly missed.

## Karl Kraus (1939 - 2005)

Karl Kraus was born in Obermichelbach, Germany on April 23, 1939. He obtained his Dipl.-Ing. in geodetic science at the University of Technology, Munich in 1962, Dr.-Ing. (PhD) on photogrammetric block adjustment in 1966 and Habilitation in automation in geodetic science, at University of Stuttgart in 1972.



He was Assistant Professor at the Institute of Photogrammetry in Munich from 1968-1970, post doctoral researcher at the Institute for Photogrammetry in Stuttgart from 1970-1974, and Head of the Institute of Photogrammetry and Remote Sensing, University of Technology, Vienna Austria, from 1974 until his death. From 1985-1991 he was Head of the Joint Research Program "Remote Sensing" of the Austrian Science Foundation; from 1983-1987 Dean of the Faculty of Engineering and Natural Sciences; and from 1987-1989, Rector of the Vienna University of Technology. In 1992 he was elected to the Council of the International Society for Photogrammetry and Remote Sensing (ISPRS) for the period 1992-1996 as Congress Director, and was responsible for the organisation of the very successful 1996 ISPRS Vienna Congress. From 1998 to 2001 he was Chairman of the Faculty of Engineering and Natural Sciences at the Vienna University of Technology.

Karl Kraus was presented with the Carl-Pulfrich-Award for introducing statistical methods of prediction into photogrammetry in 1971. In 1990 he was awarded an Honorary Doctor of the University of Technology, Budapest Hungary as well as the Wilhelm Exner Medal of the "Österreichischer Gewerbeverein". He published more than 170 scientific publications, 5 textbooks in Photogrammetry and Remote Sensing, some of which have been translated into several languages. He has been a member of the Editorial Board of the Journals "Zeitschrift für Geo-Informationssysteme" (September 1991-December 1998), "Zeitschrift für Vermessung und Geoinformation", "Zeitschrift für Photogrammetrie-Fernerkundung-Geoinformation" (1997-September 2002) and "ISPRS Journal of Photogrammetry and Remote Sensing" (until January 2005).

Karl Kraus was an outstanding teacher and researcher, and originator of many new developments in photogrammetry and remote sensing. He was a friend and strong defender of the traditions of ISPRS, which was established as ISP in Vienna in 1910, and he fought hard to ensure that its origins were always recognized. He was close colleague of many photogrammetrists and remote sensing experts around the world. He had the reputation of being a kind and considerate colleague and leader of a University Institute that was very highly respected internationally. His death is a sad loss to the photogrammetry and remote sensing community, his family, friends and colleagues.

## Alden Partridge Colvocoresses (1918 - 2007)

Alden Partridge Colvocoresses is a decorated Army colonel and US Geological Survey mapmaker . He was a native of Humboldt, Arizona. He graduated in mining engineering from the University of Arizona in 1941. During his military career, he received Master's degrees in geology and civil engineering and a doctorate in geodetic sciences from Ohio State University. He was a recipient of the Interior Department's Distinguished Service Award and was a former president of the American Society of Photogrammetry and Remote Sensing. He was also a former president of Fairfax Bassbusters, a fishing group now called Fairfax Bass.

Dr. Colvocoresses, known by many as Colvo, served in the Army Corps of Engineers from 1941 to 1968. During the Second World War, he received two Silver Stars, one for capturing and destroying a German Mark IV tank in Tunisia and another for escaping from Italian captors in North Africa. He also served in the Korean War and retired after playing a large role in mapping operations during the Vietnam War. His other decorations included the Bronze Star Medal and two Purple Hearts.

He spent the rest of his career working for the US Geological Survey's national mapping division, retiring in 1990. He was a research cartographer on the Landsat satellite programme and received two patents for models of remote sensing systems. He also discovered a reef in the Indian Ocean that was subsequently named after him.

Colvocoresses was perhaps best known on the other side of the Atlantic Ocean for his work at USGS from 1968 to 1990 and particularly for his involvement in the evaluation and development of mapping the earth from space. He was a principal investigator for

cartographic applications of the Landsat, Skylab and SPOT satellites. His work resulted in a 1982 patent for a mapping satellite (Mapsat) with the objective of producing multispectral data and geometric accuracy appropriate for 1:50,000 scale mapping. In a paper which he published in the International Archives of Photogrammetry in 1980, he claimed that Mapsat "is the first space system designed with mapping of the earth as one of its primary objectives". Another patent was granted in 1988 for a multispectral sensor design. Between 1973 and 1979, together with J. P. Snyder and J. L. Junkins, Colvocoresses defined the Space Oblique Mercator Projection which became standard for Landsat.

The first edition of the Manual of Remote Sensing, published by the American Society of Photogrammetry and Remote Sensing in 1975, contained a chapter by Colvocoresses and he was also one of the contributing authors to a chapter on satellite photogrammetry in the fourth edition of the Manual of Photogrammetry, published by ASPRS in 1980.

From 1981 to 1984, Colvocoresses chaired the International Society for Photogrammetry and Remote Sensing committee on "Mapping from space". As President of ASPRS in 1988, he led the United States delegation to the International Congress of Photogrammetry and Remote Sensing in Kyoto and was there successful in securing the bid to host the 1992 Congress in Washington, D. C.

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