ISPRS
JOINT MEETING
COUNCIL AND TECHNICAL COMMISSION PRESIDENTS
Istanbul, 16$^{th}$ – 23$^{rd}$ August 2003

AGENDA

1.  Opening Remarks (JT)

2.  Approval of Agenda (JT)                                                                     JMIst2

3.  Review of Minutes of C & TCP Meeting in Hyderabad (ID)                      JMIst3

4.  Reports on Symposia and Commission activities

    4.1  Status of Working Groups (TCPS, 10 minutes each TCP), planned meetings and activities
    4.2  Progress on implementation of Resolutions from Amsterdam            JMIst4.2
    4.3  Outstanding actions items                                                              JMIst4.3
    4.4  Report on preparation of Resolutions for Istanbul Congress             JMIst4.4
    4.5  Bids for Commissions at Congress
    4.6  ICORSE

5.  Congress (OA)
    5.1  Preparations
    5.2  TCP Requirements (event attendance, meetings, reports-Archives)

6.  Redefinition of Commissions (JT)
    6.1  Progress on new Terms of Reference
    6.2  Procedures and schedule                                                         JMIst6.2/CMIst4.1.3
    6.3  Impact on bids for Commissions at Congress

7.  General Discussion on Policy Issues
    7.1  Planning workshops
    7.2  Post-Congress JM
    7.3  Peer review guidelines                                                           JMIst7.3/CMIst9.8.2
    7.4  Symposium contract                                                              Orange Book
    7.5  The ISPRS Foundation                                                           JMIst7.5
    7.6  GWD
    7.7  Funding for New Initiatives                                                    Orange Book

8.  ISPRS Publications
    8.1  Journal
    8.2  ISPRS Highlights
    8.3  Orange Book (ID)
    8.4  Book Series
    8.5  Annual Report (ID)

9.  **Awards (LF)** JMIst9

10. **Inter-Organisation Relationships(JT/ID)**
    10.1  ICSU
    10.2  OGC
    10.3  SPIE
    10.4  COPUOS – request from OOSA to review UN Remote Sensing curriculum
    10.5  Other Organisations

11. **Review of new actions (ID)**

12. **Next Meeting of Council and Technical Commission Presidents (ID)**

13. **Other Business**

## MINUTES

**Attendees**

| | |
|---|---|
| President | John Trinder (JT) |
| Secretary General | Ian Dowman (ID) |
| First Vice President | Lawrence Fritz (LF) |
| Congress Director | Orhan Altan  (OA) |
| Treasurer | Ammatzia Peled  (AP) |
| | |
| President Commission I | Stan Morain (SM) |
| President Commission II | Chen Jun (CJ) |
| President Commission III | Franz Leberl (FL) |
| President Commission IV | Costas Armenakis (CA) |
| President Commission V | Petros Patias (PP) |
| President Commission VII | Rangnath Navalgund (RN) |
| | |
| Editor of ISPRS Journal | Manos Baltsavias (EB) |

**Apologies:** Gerard Begni, Tania Maria Sausen.

1.  **Opening Remarks**
    JT welcomed TCPs to the meeting.   He noted that this is important meeting which will be part of the preparations for the 2004 Congress.  There are also other important issues on which input is required from TCPs.

2.  **Approval of Agenda**
    The agenda was approved.

3.  **Review of Minutes of C & TCP Meeting in Hyderabad**
    ID reviewed minutes and noted developments on item:

    6.1    Symposia questionaires had been returned and summarized by JT and circulated.

JT reminded TCPs that nominations are requested for the Brock Award.

## 4. Reports on Symposia and Commission activities

4.1 Status of Working Groups, planned meetings and activities

Commission 1

SM distributed the programme of the Calibration Workshop which involved WGI/2 and the CEOS WGCV. It was agreed that ID would represent Council, LF would also attend.
SM had agreed to Co-Chair ISO TC-211 WG6 with Liping Di for proposals on radiometric calibration proposal

WGI/1    Charles Mondello has 'effectively' resigned but Mohamed Mostafa had agreed to produce a white paper to respond to Resolution I-7

WGI/2    was involved in organizing the SPOT-5-HRS Evaluation Program which covered 9 sites, 9 PIs and 19 CoIs. Preliminary results would be presented in Hanover, and there would be a special session in Istanbul.

WGI/3    A workshop had been held on Three Dimensional Mapping from InSAR and LIDAR in Portland 17-19$^{th}$ June 2003.

WGI/4    Raad Salah was organizing a conference in Saudi Arabia. He had obtained financial support. Council approved revised dates: February 15-18, 2004.

WGI/5    with WGI/2 and IC WGII/IV were organizing a workshop on High Resolution Mapping from Space in Hannover, 6-8th October 2003. There would also be a Workshop on Theory, Technology, and Realities of Inertial/GPS Sensor Orientation in Spain, 22-23$^{rd}$ September.

WGI/6    There was no direct activity but tutorials at had been organized at various meetings.

Commission II

WGII/1 II/2   Due to the SARS travel restrictions, the Mobile Mapping Technology Workshop has been rescheduled to 29-31 March 04. Prof. Jun Chen extended an invitation by China to host the next JM in conjunction with the Workshop.

Commission III

WGIII/1   Not active

WGIII/2   A workshop planned with III/8 had been cancelled due to too few registrations. This may have been due to insufficient publicity, but there had also been a problem in attracting and paying for Keynote Speakers.

WGIII/3   Had organized a test of bare earth algorithms and were organizing a workshop in Dresden, 8-10$^{th}$ October 2003.

WGIII/4   Joint workshop on Photogrammetric Image Analysis, Munich 17$^{th}$-19$^{th}$ October.

WGIII/5   Not active

WGIII/6   2nd Joint Workshop on Remote Sensing and Data Fusion over urban Areas (URBAN 2003) Berlin, May 22-23, 2003.

WGIII/7   Not active

WGIII/8   See WGIII/2

ICWGIII/V Limited activity.

FL referred to the controversy between film and digital sensing, and suggested that this could be a topic at the Congress. OA would consider this, and also discussed whether it could be included in a WG session.

Commission IV
CA reported that Commission Secretary Y C Lee is still ill

WGIV/1   Yvan Bedard had stepped down as chair and John Shi had agreed to replace him. The WG had co-organised the 2nd International Symposium on Spatial Data Quality held in Hong Kong, 19-20 March 2003,
A Workshop on "Spatial and Temporal Data Modelling: specifications, standards, formalisms and other system design issues", would be held in Quebec, Canada, jointly with DMGIS 2003. 2-3 October 2003.
The WG is proposing a special issue in the ISPRS Journal (September 2003).

WGIV/2   had planned participation in the joint workshop (II/3, IV/2, IV/4) on "Advances in Spatial Data Infrastructures and Database Interoperability", 9-11 July 2003, Southampton, UK but the event had to be cancelled.
Planned participation in the joint 4th International Symposium on Mobile Mapping Technology MMT 2003 (Com I, II/1, II/2, IV/2, V/5), 25-27 August 2003, Kunming, China, rescheduled for 29-31 March 2004.
Planned organization of the joint 4th ISPRS Workshop on Dynamic and Multidimensional GIS 2003 (DMGIS 2003), 20-30 August 2003, Enschede, The Netherlands, had to be rescheduled and merged with the workshop organized in 2-3 October 2003 by IV/1, in Quebec, Canada.

WGIV/3   Joint workshop (IV/3, IV/6, IV/7) on "Challenges in Geospatial Analysis, Integration and Visualization II", 8-10 September 2003, Stuttgart, Germany.

WGIV/4   Planned organization of joint workshop (II/3, IV/2, IV/4) in Southampton, UK had to be cancelled.
Tutorial on Spatial Data Infrastructures for urban Planning and Management, 6-8 November 2003, Dehradun, India.

WGIV/5   Workshop on "Next Generation Geospatial Information", to be held in Boston, 19-21 October 2003. Plan to publish proceedings as an ISPRS Book Series.

WGIV/6   Organization of a special issue in the ISPRS Journal (April 2003).
Joint workshop (IV/3, IV/6, IV/7) in Stuttgart, Germany.

WGIV/7   Joint workshop (IV/3, IV/6, IV/7) in Stuttgart, Germany.

WGIV/8   Workshop on "Global Environmental Databases: Adaptation to meet current and future needs", 3-6 June 2003, Bangkok, Thailand. Report of the event was sent to ISPRS Highlights.

WGIV/9   Workshop on "Advances in Planetary Mapping", 22 March 2003, Houston, USA

The Commission had also provided:
- o input to Council as required (e.,g. new ToR for new Com II and IV, progress on 2000 Com IV resolutions, draft resolutions for 2004, etc.)
- o Joint VI and IV ISPRS Seminar at GIS Brazil 2003: 9th Geotechnologies Tradeshow, 19-22 August 2003, Sao Paulo, Brazil.
- o Contact with OpenGIS Consortium
- o Support and sponsoring of other related events, including those of WG II/IV

CA also raised the issue that GSDI 'is losing sex appeal'. What should ISPRS policy be on this?

## Commission V

WGV/1    not active

WGV/2    The WG had taken part in the following activities:
January 19-26, 2001: Videometrics and Optical Methods for 3D Shape Measurement VII, (SPIE, Electronic Imaging/Photonics West), San Jose, California.
May 28-June 1, 2001: Third International Conference on 3D Digital Imaging and Modeling (3DIM2001), Quebec City, Canada.
June 21-22, 2001: International Symposium on Virtual and Augmented Architectures (VAA01) Dublin, Ireland.
August 12-17, 2001, SIGGRAPH, Los Angeles, California.
VIdeometrics and 3D Shape Measurement Techniques, January 2003, San Jose, California (with SPIE Electronic Imaging)
The 4th International Conference on 3-D Digital Imaging and Modeling (3DIM'2003), October 6-10, 03, Banff, Alberta, Canada

WGV/3    not very active. Theme Issue of the Journal was published on *Medical Imaging and Photogrammetry*

WGV/4    3rd International Image Sensing Seminar on New Development in Digital Photogrammetry, 24-27 September 2001, Gifu, Japan
"Vision Techniques For Digital Architectural And Archaeological Archives", 1-3 July, 03 in Ancona, Italy.
February 26-March 1, 2001: International Workshop on Recording the Past - Visualization and Animation of Cultural Heritage, Ayutthaya, Thailand.

WGV/5    will take part in 4th International Symposium on Mobile Mapping Technology "MMT 2004", Kunming, CHINA and GeoSensor Networks (GSN'03), Portland, USA

WGV/6    February 26-March 1, 2001: International Workshop on Recording the Past - Visualization and Animation of Cultural Heritage, Ayutthaya, Thailand.
5th Conference on Optical 3-D Measurement Techniques, Vienna, AUSTRIA

WG V/6    International Workshop on Visualization and Animation of Landscape, in Kunming, China, 26 February-1 March 2002.
Workshop related to the "International Year of the Mountains 2002" in connection with the 23rd ACRS in Kathmandu, Nepal, December 2002:
Optical 3D Measurement Techniques Conference, Zurich, Switzerland, Sept. 03 (with FIG and IAG)

ICWGV/III not very active.

There was discussion on the relationship with CIPA, and on the need to keep synergy going. ISPRS needs to develop further joint activities, eg architecture, medical, industrial.

Commission VI
A written report was received from TS.
WGIV/1   had a special session at the the 3D Optical Conference at Zurich.

WGVI/2   had enhanced its website and prepared for CATCON at Istanbul.
Sessions on multimedia in education at Spatial Sciences Conference in Canberra, Australia.

WGIV/3   is involved in the Workshop in Zagreb.

WGVI/4   Online Education – preparation of a pilot module which is available at
www.GISdevelopment.net/isprs/ecampus
Development and regular updating of the GIS Education Portal
www.GISdevelopment.net/education
Workshop on Online Education
(http://www.mapasia.org/2003/seminars/onedu.htm) will be held at Map Asia being held at Kula Lumpur, Malaysia on 13-15 Oct 2003
Workshop on Education and Curriculum Development
(http://www.mapindia.org/work3.htm) will be held at Map India 2004 being held in New Delhi, India on 28 – 30 January 2004)

Commission VII
WGVII/1   The seventh of the biennial "International Symposium on Spectral Sensing Research" was held June 2-6, 2003, in Santa Barbara, CA.
Participated in the EARSeL Workshop on Imaging Spectrometry organized by the German Aerospace Centre (DLR) in Munich, Germany in May 2003.

VII/2      Not active

WGVII/3   Shailesh Nayak had taken over as chair and was organizing a workshop on 'Land Use Dynamics' with WGII/6 in China.
A workshop on Integrated Monitoring Systems was planned for December 9-12, 2003 in Thiruvananthpuram, India.

WGVII/4   Participation in the 2nd Joint Workshop on Remote Sensing and Data Fusion over Urban Areas (URBAN 2003) Berlin, May 22-23, 2003.
Symposium on "Urban Remote Sensing" in Regensburg, 27-29 June 2003.

Conference on "Laser scanner application for landscape assessment" is planned to be organised at Freiburg Germany during October 2004 by Prof. Barbara Koch. Web site: www.felis.uni-freiburg.de

WG VII/5 Working group members have organized special sessions on Disaster monitoring and mitigation at the following symposia:
World Space Congress; (Houston, Oct 02): Special Journal Issue: Advances in Space Research (COSPAR) will be published in Nov03 in collaboration with ISPRS. It had been recommended that iIntegration of various sensors for hazard assessment needs to be addressed.

IEEE-IGARSS; Toulouse, July 03: Special Session organized by Singhroy on Deformation: Earthquakes, Subsidence and Volcanoes. Recommendations from this session included:

- More testing of InSAR techniques for Geohazard monitoring, integrated with in-situ and GPS techniques..
- Develop guidelines of best practice for EO on hazard assessment.

The Working Group is organizing special session on Remote Sensing for Disaster Management at the IUGS (International Union of Geological Sciences) Congress in Florence, Aug 04.

WGVII/6  Organising a workshop on Modelling and monitoring of global environmental change in Kyoto, 21-22 October 2003.

Some general problems were noted, these included:

- limited activity within ISPRS on remote sensing.
- management of WGs. There needs to be more planning of meetings. WG chairs are scientific and not necessarily good at managing meetings etc.
- ICORSE had not made any response to proposals to organize sessions. TCVII is responsible but needs to get response for ICORSE.

4.2 Progress on implementation of Resolutions from Amsterdam
The resolutions from Amsterdam were reviewed and TCPs reported on the response to these. A full report is in the appendix. JT concluded that there was a 60 – 70% success rate in addressing resolutions

The question was raised of what should ISPRS contribution be to international activities such as ISO and OGC? For example testing knowledge, WG involvement or just reporting on such activities. A discussion is needed on this and a strategy developed which could be realistically achieved.

**ACTION 03/374 ID  Add item on strategy towards OGC and ISO to future JM.**

4.3 Outstanding actions items
The outstanding action items were reviewed and the following items were closed

| 165 | TCPVI | LJ | Include information on databases in Highlights |
| SP2-6b | TCPIV | OdMs, WGCh | Ask ordinary members and WG chairs -who is an active OGC Member |
| SP3-1a | WGII/3 | | Identify critical issues on global, regional and local level, such as user requirements in perspective of end to end systems |
| 156 | TCPII | TCPIV | Report on formal relationship between II/4 and ISO/OGC |
| 253 | TCPVII | | Follow up TCVII participation in ISRSE in 2003 |

287     TCPI          Activate WGI/1

Council should take over action item SP3-3 to consider further interaction with industry. ID and JT to co-ordinate updating of matrices.

It was decided that TCPs need more clarity on Strategic Plan actions – Council needs to revisit this early in next term.

**ACTION 03/375 ID**      **Ensure that Council considers interaction with industry.**

**ACTION 03/376 ID/JT**   **Circulate matrices to all TCPs and update and get FR to put it on the web site**

**ACTION 03/377 TCPs**   **Send additional material and correction to Matrices to ID**

### 4.4 Report on preparation of Resolutions for Istanbul Congress

LF reminded TCPs of the procedures for preparing Resolutions for the General Assembly, these should be related to new terms of reference.
Proposals were received from TCs I, II, III, IV, V, VII and WGVI/1 and reviewed by Council These should be revised by TCPs and sent to LF, paying particular attention to new topics and advances on previous resolutions.

During discussion the following topics for Resolutions were suggested:
- How to address the global decline in P&RS&SIS Education (Comm. VI) *[handwritten: VI.4 Cap Bldg]*
- Formalizing Youth Forum activities (Comm. VI) *[handwritten: VI.4 Cap Bldg.]*
- Distance learning and promotion of GWD activity *[handwritten: VI / VIII open]*
- Remote Sensing for addressing health and welfare (Comm. VII)
- ICORSE should be asked to provide Resolutions *[handwritten: VIII covers these]*
- Review for UN/OOSA of its education curriculum (Comm. V) *[handwritten: VI.2 Edd Thg. for Devlp World]*

**ACTION 03/378 TCPs**   **Send revised resolutions to LF by 17th October**

**ACTION 03/379 ID**   **To ask ICORSE for resolutions (Hutchinson, Weber, Tuyahov)**

### 4.5 Bids for Commissions at Congress
A formal bid had been received from Japan for TCVI. Although other bids were promised, no formal nominations had been received. ID would be sending out a formal invitation to bid in October, after completion of the ballot for revised ToRs.

## 5. Congress

### 5.1 Preparations
OA outlined the latest developments in the programme and noted that sessions were now planned for Saturday morning. There were discussions on the organisation and submission of papers, Commission business meetings and special sessions. OA will consider suggestions made and incorporate them into the planning.

Council and TCPs visited the Congress Centre, saw all of the facilities and discussed some details of the arrangements. The facilities were considered to be very suitable for the Congress. Points for OA to consider if possible were:

- Arrangements for posters, format of poster boards, 2m tall and 1m wide, are not ideal and space between posters is limited.
- Consider putting posters in the exhibition area
- The area allocated for Members bidding for Congress in 2008 were not suitably located.

5.2   TCP Requirements (event attendance, meetings, reports-Archives)
TCPs are required to produce a report on the 4 year period to be delivered at beginning of Congress. An oral report will also be required on Commission activities at the Congress at the closing session.

It was agreed that there would be a meeting with TCPs at 17.00 on 13th July, before the Congress starts.

**ACTION 03/379 ID  Produce schedule of requirements of outgoing and incoming TCPs at Congress, including reporting and requirements for annual report.**

In response to a query from RN it was stated that TCPs have the responsibility of ensuring that chair persons are in attendance and ready to chair their session. RN said that TCPs require support to cover non-attendance of chairs. It was agreed that a list of registered delegates should be sent to TCPs 4 weeks before the Congress.

**ACTION** 03/380 OA Send TCPs a list of registered delegates 4 weeks before Congress.

It was noted that the arrangements for publication of Member reports was not clear and that OA should send Members information about this.

**ACTION** 03/381 OA Inform Members about member arrangements for publishing member report.

## 6.   Redefinition of Commissions

6.1 Progress on new Terms of Reference
JT advised TCPs that a vote was in progress on the new Commission Terms of References and that in October Members would be informed of the outcome and invited to bid for Commissions under the new ToRs.

6.2   Procedures and schedule
ID presented draft Guidelines and schedule for nominating TCPs. This was discussed and some revisions made. It was agreed that a JM was desirable immediately after the Congress, but that 2 days was maybe too long; half or one day would be sufficient. Current TCPs would be invited to attend for at least part of the meeting.

6.3   Impact on bids for Commissions at Congress
It was stated that resolutions will be referred to the new ToRs and that the numbering of Commissions will be voted on at the GA.

## 7.   General Discussion on Policy Issues

7.1 Planning workshops
ID outlined the proposal to plan workshops so that there were more joint meetings which were planned in advance. TCPs welcomed more planning.

7.2 Peer review guidelines

TCPs accepted the Guidelines with some discussion on confidentiality of reviewers, but it was stressed that these were guidelines and that organisers could change these to suit the particular event.

### 7.3 Symposium contract

JT introduced the draft contract for TCPs and the changes which had been made by Council, taking on TCP comments. It was stressed that this was a draft and that each contract would be negotiated between ISPRS and the Member.

It was suggested that the term Agreement, rather than Contract, should be used. This can also be negotiated. Council decided that 'Agreement' is more appropriate. People also objected to the reference to 'Maryland, USA law', because the details of this were not known.

**ACTION 03/382 LF Provide information on the relevant law, through reference to a web site.**

**ACTION 03/383 ID Provide information on arbitration procedures.**

TCPs raised the issue of what the 10% would be used for. It was felt that an explanation of how funds were used should be given. Council should consider this further. Council should provide a financial statement to members who request it.

### 7.4 The ISPRS Foundation

LF outlined the current status of the Foundation and asked TCPs for suggestions or contacts of potential donors.

### 7.5 GWD

Geospatial Workforce Development - there had been no further developments on this, but SM reported that there had been some financial problems and that maybe we should make a direct approach to NASA. This would be done after approaching Pam Lawhead.

**ACTION 03/384 SM Contact Pam Lawhead and advise on best approach to progress ISPRS involvement with GWD.**

### 7.6 Funding for New Initiatives

ID reported on applications considered by Council. The applications were disappointing and RN noted that there had been some misunderstanding over the intention of the Indian application.

Council stressed that in the future all applications should be sent through the relevant TCP for adherence to the Initiatives Guidelines before forwarding to Council for funding approval. TCPs had no comments on the revised draft guidelines.

## 8. ISPRS Publications

### 8.1 Journal

EB reported on the following issues:
1.  Associate Editor – TCPs reviewed names suggested by Council and agreed that they were viable candidates.
2.  Theme issues – a number of issues are in the pipeline, but these could continue after 2004.

SM and RN noted that they may be proposing a special theme issue by the end of CY-03.

### 8.2 ISPRS Highlights

ID encouraged TCPs to chase up workshop organizers for reports of these events. SM would write a report of the social activities of the Joint Meeting to encourage people to come to Istanbul.

JT reported briefly on the current status of Highlights and that Council was reviewing the position of Highlights.

8.3 Orange Book
ID reviewed the new draft of Orange Book and asked for comments from the TCPs.

8.4 Book Series
Council still have to discuss the contract for the Book Series. The first book will be from the conference in Hong Kong. JT emphasised that the risk will be taken by Balkema and arrangements will be made on a case by case basis. The Book Series Editor will negotiate with editor and Balkema.

**ACTION 03/385 JT/ID Clarify procedures for publishing in the Book Series and use of Guidelines for Peer Review.Annual Report**

8.5 Annual report
TCPs were asked to be selective in what was included in the Annual Report. This makes the it more readable and also costs less to publish. Submissions for the Annual Report should be more informative regarding the current state of the S&T and there should be no · duplication of items listed on the Events Calendar.

**ACTION 03/386 ID To review guidelines for annual report.**

8.6 Archives
TCPs were informed that the four year Commission Summary Report is due by the start of the Congress for publication in Archives Volume A.
TCPs were reminded that copies of Archives should be sent to ITC for the ISPRS Archive.

9. **Awards (LF)**

LF reminded TCPs of the arrangements for Awards and of TCPs responsibilities for Young Author Awards, Best Poster, CATCOM and President's Honorary Citation.

10. **Inter-Organisation Relationships**
10.1 ICSU
JT reported on ICSU activities, which included representation on committees, and contribution to Health and Wellbeing.

10.2 OGC
CA had been in contact with OGC and was discussing sessions at the Congress and reports in Highlights.

10.3 SPIE
ISPRS now has a MoU with SPIE. The MoU states that:

1.   SPIE and ISPRS will select up to three meetings each calendar year that are of the most interest to their respective communities. These events (up to 3 SPIE events; up to 3 ISPRS events) will be targeted for mutual promotion and collaboration.

2.   For these events, each society will provide for the other:

   • Listing as a co-operating organisation in all event-related literature, including society logos
   • Web calendar listings of the targeted events with links to event specific home pages
   • Up to 5000 mailing labels (upon request) for promotion of the specific event

TCPs were asked to suggest suitable meetings for such an exchange.

10.4 COPUOS

ISPRS had received a request from OOSA for ISPRS to be responsible for reviewing UN Remote Sensing curricula. TCPs were asked to co-operate in this.

**ACTION 03/387 JT To follow up review of curriculum in 2005**

10.5 Joint Board of GeoSpatial Information Societies

JT reported that he had attended a Joint Board meeting at the ICA Congress in Durban and that a web site would be set up to encourage the Joint Board to be the point of contact with International Organisations such as UN.

**11. Review of new actions**

ID reviewed the new actions from the meeting.

**12. Next Meeting of Council and Technical Commission Presidents**

Next meeting of Council to be held in Beijing from 31st March to 5th April 2004. The meeting with Council and TCPs will take place from 1st to 4th April.

**13. Other Business**

There was no other business and JT closed the meeting with thanks to all participants.


## APPENDIX TO MINUTES OF JMIst

### Action on Resolutions of the XIXth Congress of ISPRS in Amsterdam 2000
### Compiled at Joint Meeting, Istanbul, August 2003

**General Resolutions**

| Resolution | Recommendation | Action |
|---|---|---|
| Resolution G.4 <br><br> Intercommission activities | Recommends <br><br> - that all new Technical Commission Presidents note carefully all recommendations and move to establish dialogue and joint activities where appropriate. | |
| Resolution G.5 <br><br> Digital Earth concept | Recommends <br><br> - the encouragement of strategies to further develop a Digital Earth concept. | |
| Resolution G.6 <br><br> International Industry Forum | Recommends <br><br> - that ISPRS strive to establish an International Industry Forum (IIF) with all segments of the private sector <br><br> - that the IIF work within the ISPRS structure to conduct its activities and for closer collaboration with CEOS and the | |

| | Integrated Global Observing Strategy (IGOS). | |
|---|---|---|

## Resolutions of Technical Commission I

| Resolution | Recommendation | Action |
|---|---|---|
| Resolution I.1<br><br>Collaboration with CEOS | Recommends<br><br>- that ISPRS actively work with CEOS to achieve cooperation and coordination in EO R&D activities<br><br>- that ISPRS work with CEOS to foster public/private collaboration in EO R&D activities<br><br>- that ISPRS support and contribute to the EO education and training efforts worldwide and specifically focus on newer technology elements | *Set up Joint ISPRS/CEOS Task force on Radiometric and Geometric Calibration*<br><br>*Arranged meeting of CEOS WGCV TM sub group with workshop in Portland*<br><br>*ISPRS has representatives on WGISS and WGCV.* |
| Resolution I.2<br><br>Standardization of sensor parameters | Recommends<br><br>- the generation of a common set of parameters to be specified for each camera / sensor in conjunction with manufacturers. | *Addressed by WGI/5 Workshop on Radiometric and Geometric Calibration in Gulfport in December Taskforce - see above.* |
| Resolution I.3<br><br>Radiometric and geometric calibration | Recommends<br><br>- investigations of calibration and intercalibration of all digital imaging space sensors<br><br>- that all existing and planned test fields be identified and their spatial, spectral and physical characteristics be inventoried<br><br>- that collaboration be established with other bodies studying ground test fields with known spectral reflectance characteristics, which can be used for calibration. | *See Workforce and Taskforce above.* |
| Resolution I.4<br><br>Wide swath sensors | Recommends<br><br>- studies to understand the effect of viewing geometry on the radiometric accuracy of the products. | *IWMMM Workshop*<br>*Theme session at Hyderabad*<br>*WG I/5* |

| Resolution I.5 | Recommends | |
|---|---|---|
| Sensors for DTM data generation | - to intensify detailed study on the accuracy and cost effectiveness of various techniques | *WGI/3 active with Lidar and IfSAR.* |
| | - identification of standard sites for inter-comparison and evaluation of different methods. | *SPOT HRS assessment.* |
| Resolution I.6 | Recommends | |
| Platform and orientation integration | - integration of attitude and position information with data processing software algorithms | *WGI/6 deals with this and also FIEOS* |
| | - standardization of data format, referencing systems and data archival and retrieval systems. | *Not addressed but see WGII/4* |
| Resolution I.7 | Recommends | |
| Electronic database of sensor and platform information | - that an electronic, searchable database of sensor and platform information, both retrospective, current and planned | *WGI/1 white paper is addressing this.* |
| | - that provides equitable and accessible information from an updateable source be promoted to the ISPRS community. | |

**Resolutions of Technical Commission II**

| Resolution | Recommendation | Action |
|---|---|---|
| Resolution II.1 Real-time systems | Recommends<br>- that work continue on real-time mapping technologies with closer links being developed between commissions, especially where GPS/INS is involved. | *Addressed by WGII/1 and FIG* |
| Resolution II.2 Use of Synthetic Aperture Radar (SAR) data The Congress | Recommends<br>- that increased efforts be made to use SAR data for production of geoinformation and to promote the use of SAR within the spatial information sciences. | *Addressed by WGII/2* |
| Resolution II.3 Digital photogrammetric workstations | Recommends<br>- the continued monitoring of developments in digital photogrammetric workstations and the creation of a wide | *Addressed by ICWG/II/IV* |

| | range of tools for feature extraction<br><br>- that measures be taken to increase knowledge and develop optimum use of<br><br>digital photogrammetric workstations and the skills to evaluate and use them in collaboration with the vendors. | |
|---|---|---|
| Resolution II.4<br><br>Procedures and tools for data integration | Recommends<br><br>- that the development of procedures and tools for integration of data from a variety of sensors and databases be addressed, including the use of new data sources such as SAR and Laser Scanning and the increasing use of vector databases as well as expert systems. | *Addressed by WGs II/3, II/5. II/6* |
| Resolution II.5<br><br>Data transfer standards | Recommends<br><br>- continued effort to develop standards for data transfer and collaboration with other organizations that are promoting standards such as ISO, Institute of Electrical and Electronics Engineers (IEEE) and OGC. | *Addressed by WGII/4* |
| Resolution II.6<br><br>Integration of information into GIS | Recommends<br><br>- that the integration of photogrammetric and remote sensing imagery and techniques into GIS for efficient acquisition and revision of geospatial information be strengthened. | *Addressed by WGs II/3, II/5 and ICWGII/IV* |
| Resolution II.7<br><br>End-to- end systems | Recommends<br><br>- the development and validation of end-to-end processing systems for specific applications, making use of a range of imaging systems, a range of components from the spatial information sciences and paying particular attention to techniques for the delivery and presentation of information. | *Addressed by WGs II/5 and II/6* |

**Resolutions of Technical Commission III**

| Resolution | Recommendation | Action |
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| Resolution III.1<br><br>Surface reconstruction | Recommends<br><br>- that research be continued on Earth | *Addressed by WGs III/2, III/3* |

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| | surface reconstruction techniques with emphasis on multiple sensor input. | |
| Resolution III.2<br><br>Fusion | Recommends<br><br>- that fusion, at the data, feature and information levels, be promoted. | *Addressed by WGIII/6* |
| Resolution III.3<br><br>Object modelling | Recommends<br><br>- that efforts be strengthened on developing generic models of objects, including their geometric, semantic and temporal properties, and interrelationships. | *Addressed by WGsIII/4, III/7 + Mayr* |
| Resolution III.4<br><br>Combining classification methods and computer vision | Recommends<br><br>- and computer vision approaches into a common object recognition framework. | *Addressed by WG III/ Mckeown* ~~*but inactive*~~ 4 ∉III/6 Helwig & Mayer |
| Resolution III.5<br><br>Performance and reliability of algorithms | Recommends<br><br>- that procedures for evaluating algorithms and for developing suitable test data sets be intensified and formulated. | *Addressed by WGIII/8 dataset proposed but not progressed.* Paparoditis |
| Resolution III.6<br><br>Image understanding / object recognition | Recommends<br><br>- that investigations in object recognition and image understanding be intensified, particularly in the areas of modelling and knowledge engineering<br><br>- that cooperation with researchers in computer vision and cognitive science be also intensified. | *Addressed at Comm III Symposium* ~~but~~ and *WGIII/?* ~~Not~~ *active* with III/6 Mayer |
| Resolution III.7<br><br>Features as entities in orientation processes | Recommends<br><br>- that current mathematical models be extended to include features as entities in the image orientation processes. | *Addressed by WG III/1 but inactive* w/ppm at Congress |

## Resolutions of Technical Commission IV

| Resolution | Recommendation | Action |
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| Resolution IV.1<br><br>Design of large and distributed spatial databases | Recommends<br><br>- that the collaboration with SDH organizers be continued and strengthened<br><br>- that research, developments and applications in the design of large and | *Addressed by WGsIV/1 IV/2 and SDH* |

| | distributed spatial databases be continued. | |
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| Resolution IV.2<br><br>Spatial database revision and consistency | Recommends<br><br>- that the work on spatial database revision and consistency checking be continued and strengthened. | *Addressed by WGs IV/1, IV/7 and ICWGII/IV* |
| Resolution IV.3<br><br>Multiscale, aggregation and generalization of spatial databases | Recommends<br><br>- that ISPRS continue and strengthen the efforts in developing aggregation and<br><br>generalization methods and cooperate with other international societies, particular ICA, to deliver adequate algorithms to create multiple representations of spatial data. | *Addressed by WGs IV/3 and IV/1 and joint ICA event*<br><br>*Note; mostly addressed in WG IV/3 and the joint ICA event* |
| Resolution IV.4<br><br>Generation of core spatial databases | Recommends<br><br>- that the work on the generation of core spatial data bases using multi-source data be continued and strengthened<br><br>- to combine outdoor and indoor locations of built features and facilities in one data stream. | *Addressed by WGs IV/6 and IV/7 but applications to Computer Aided Facility Management not addressed.* |
| Resolution IV.5<br><br>3D modelling, visualization and animation | Recommends<br><br>- that further contributions be encouraged to research, developments and applications in this field, especially to link 3D city models with Computer Facility Management Systems. | *Addressed by WG IV/6 but applications to3D city models and Computer Aided Facility Management not addressed.* |
| Resolution IV.6<br><br>Dynamic modelling | Recommends<br><br>- that ISPRS strengthen research in this field to make more profit of the timely sensed image data. | *Addressed by WGs IV/1 and IV/6.* |
| Resolution IV.7<br><br>Data fusion for spatial information systems (Laser scanning, InSAR, stereo, high resolution satellite imagery, GIS data) | Recommends<br><br>- that research, development and application in data fusion be further stimulated. | *Addressed by WGIV/6 and ICWGII/IV* |
| Resolution IV.8<br><br>Spatial data quality | Recommends<br><br>- the further stimulation of research describing data quality measures, and their implementation and integration into spatial databases and GIS analysis. Resolution IV.9 Inter-operability | *Addressed by WGs IV/1, IV/7, ICWGII/IV* |

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| The Congress | Recommends<br><br>- cooperation with institutions involved in spatial data standardization. | *Addressed by WGs IV/2 and IV/4, also WGII/4, TCPIV is corresponding with OGC to set up collaboration. but what should ISPRS be contributing to testing and knowledge.* |
| Resolution IV.10<br><br>Metadata and clearing houses | Recommends<br><br>- that ISPRS contribute to the awareness, promotion and use of spatial data clearing houses. | *Addressed by WGs IV/2 and IV/4 and through links with OGC.* |

**Resolutions of Technical Commission V**

| Resolution | Recommendation | Action |
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| Resolution V.1<br><br>Automation for vision metrology | Recommends<br><br>- that stand-alone measurement systems integrating one or more imaging sensors and CAD/CAM, along with innovations in laser scanning and projected light systems for off-line and on-line vision metrology, be further studied<br><br>- that target and feature extraction with special consideration of the multi-image correspondence problem be developed. | *Addressed by WGV/1 but this has not been successful* |
| Resolution V.2<br><br>Scene modelling for visualization and virtual reality (VR) | Recommends<br><br>- that automatic image analysis techniques to extract models of objects and scenes for applications in visualization and virtual reality be further developed<br><br>- that mechanisms be implemented for cooperation between ISPRS Commission V, computer graphics and computer vision groups. | *Addressed by WGV/6* |
| Resolution V.3<br><br>Human motion and medical image analysis | Recommends<br><br>- that research and development in techniques and systems for medical imaging, human motion studies, expression analysis and sports analysis be continued and strengthened<br><br>- that Commission V intensify cooperation and collaboration with the communities of medical/biomedical engineering, sports science and human/apparel engineering. | *Addressed by WGV/3* |
| Resolution V.4<br><br>Integration of image analysis and spatial information systems for applications in cultural heritage | Recommends<br><br>- further development of integrating of close-range vision techniques and spatial information systems for 3D reconstruction and documentation of monuments and buildings for cultural heritage<br><br>- the increased use of advanced, low cost and rapid techniques in documentation and monitoring of the cultural heritage<br><br>- development of standard procedures and products in cooperation with related disciplines (e.g. urban planning or facility | *Addressed by WGV/4* |

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| | management) close cooperation with CIPA. | |
| Resolution V. 5<br><br>Image sequence analysis | Recommends<br><br>- that investigations of these topics be promoted, in close cooperation with Commission III and researchers, for example in engineering and computer vision<br><br>- that investigations on algorithmic aspects and the development of computational systems for applications with special emphasis on time constrained solutions be conducted. | *Addressed by ICWG V/III but not very active* |
| Resolution V.6<br><br>Vision and animation | Recommends<br><br>- the development of image-based techniques for use in live figure and environment generation tasks<br><br>- the study of methods and technologies to support the interaction of real and virtual objects and actors<br><br>- that collaboration with the computer vision and animation communities be intensified. | *Addressed by WGV/6* |
| Resolution V. 7<br><br>Integration of ground-based vision techniques with aerial/space images | Recommends<br><br>- that new models and techniques for close-range and aerial/space image integration be developed in cooperation with Commission III and IV, with a focus on aspects such as the combination of data from various sources, object extraction techniques, 3D modelling and texture mapping. | *Addressed by WGs V/2, V/4, V/5, V/6 and also in other Commissions* |

## Resolutions of Technical Commission VI

| Resolution | Recommendation | Action |
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| Resolution VI.1<br><br>The Internet for ISPRS The Congress | Recommends<br><br>- the investigation of the optimal use of the Internet for the benefit of the ISPRS community. | *Addressed by the TCVI education programme and by Geospatial Workforce Development* |
| Resolution VI.2 | Recommends | |

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| Education for the developing world | - that Commission VI in cooperation with regional members of ISPRS and all sister societies endeavour to organize workshops for education in the developing world. | *Addressed by WGIV/6 and by Dar es Salaam workshop, involvement in OOSA Educational Curricula and also distribution of Archives, but need more.* |
| Resolution VI.3<br><br>Updating the ISPRS education data base | Recommends<br><br>- that the ISPRS data base of education and training courses and institutions be maintained and updated at least annually. | *This is established and ongoing* |
| Resolution VI.4<br><br>Computer Assisted Teaching and Learning (CAT/L) | Recommends<br><br>- that the evaluation of existing and the development of new concepts of CAT/L and distance learning be addressed<br><br>- that public domain educational software and web pages be designed and developed<br><br>- that available software and web pages be publicly disseminated at marginal cost<br><br>- that the CAT Contest (CATCON) be continued. | *Addressed by WGVI/2* |
| Resolution VI.5<br><br>Technology transfer to and within the developing world | Recommends<br><br>- that opportunities for technology transfer to and within the developing world be further investigated and expanded<br><br>- that such technology transfer be initiated, encouraged and/or supported in cooperation with sister societies and international/regional organizations | *Addressed by WGIV/1 – Dar es S alaam, Zagreb and Porto Allegre workshops.* |

**Resolution of Technical Commission VII**

| Resolution | Recommendation | Action |
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| Resolution VII.1<br><br>Spectral signature research | Recommends<br><br>- that research on spectral signature especially in the areas of hyper-spectral and microwave sensing be continued<br><br>- cooperation with institutions maintaining databases on spectral signatures<br><br>- cooperation with International Symposium on Spectral Sensing Research (ISSSR) and other international conferences on Physical Measurements | *Addressed by WGVII/1* |

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| | and Spectral Signatures in Remote Sensing. | |
| Resolutions VII.2<br><br>Standardization for methodology of computer-aided Interpretation | Recommends<br><br>- establishing quality measures for evaluation and validation of the output of remote sensing procedures<br><br>- collaboration with CEOS Calibration and Validation Working Group (CVWG). | *Addressed by WGVII/1 and joint activities with TCI* |
| Resolution VII.3<br><br>Crop monitoring, yield estimation and policy issues | Recommends<br><br>- to refine current modelling methodologies for improvement of the operational use in crop monitoring, yield estimation and facilitating agricultural policy implementation using remote sensing and GIS technologies. | *Addressed by WGVII/2* |
| Resolution VII.4<br><br>Integrated monitoring systems | Recommends<br><br>- that integrating remote sensing data, in-situ measurements and other data in a GIS be encouraged for monitoring, modelling and management of the environment and resources. | *Addressed by WGVII/4 3* |
| Resolution VII.5<br><br>Disaster management | Recommends<br><br>- the development and applications of appropriate tools and methodologies for disaster management using remote sensing and GIS technologies<br><br>- cooperation with various partners IGOS/CEOS etc. | *Addressed by WGVII/5* |
| Resolution VII.6<br><br>Generation and use of global databases | Recommends<br><br>- the development of methodologies for generation and quality evaluation of global databases for global studies in cooperation with Commission IV<br><br>- compilation of existing and planned location and quality of global databases<br><br>- development of algorithms for monitoring of global change<br><br>- evolving strategies for assimilating remotely sensed data into global models. | *Addressed by WGVII/6* |
| Resolution VII.7<br><br>Supporting implementing of international policies and treaties | Recommends<br><br>- investigations and development of vegetation (especially forest), soil and other thematic mapping and using remote | *Addressed through joint SIG with EARSeL* |

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| | sensing data at national and international levels, with focus on carbon fixing and desertification<br><br>- coordination with International Global change Atmospheric Chemistry (IGAC) Programme<br><br>- the establishment of a Task Force to coordinate ISPRS?s contribution to studies of the application of remote sensing for international policies and treaties. | |
| Resolution VII.8<br><br>Urban management | Recommends<br><br>- provision of scientific and technological support<br><br>- for actions as recommended by the HABITAT II Conference<br><br>- for documentation, conservation, management and permanent control of Natural Heritage and Cultural Landscapes in cooperation with UNESCO/ICOMOS/CIPA<br><br>- for actions to monitoring land use and land cover transformation, with special emphasis on urban growth. | *Addressed by WGVII/4* |
| Resolution VII.9<br><br>Imaging segment of information infrastructure | Recommends<br><br>- that ISPRS represent the imaging sector using the synergy with its integration with GIS, satellite positioning and space communication in the national, regional and global spatial data infrastructure especially in applications of remote sensing and GIS for environmental studies and resource management. | *Partially*    WG-VII/3<br>*~~Not~~ addressed by TCVII, partly addressed by TCIV* |