

**The Minutes of Joint Meeting
with Council and Commission Presidents**

September 21-22, 1990
Victoria, Canada

Present:

K.Torlegard	;	President
G.Konecny	;	First Vice President
I.Katzarsky	;	Second Vice President
S.Murai	;	Secretary General
L.Fritz	;	Congress Director
K.Atkinson	;	Treasurer
M.Barbosa	;	Com.I President
J.Luiz de Barros Aguirre	;	Secretary of Com.I
K.Szangolies	;	Com.II President
Li Deren	;	Com.III President
T.Hirai	;	Com.IV President
R.Tateishi	;	Secretary of Com.IV
A.Gruen	;	Com.V President
J.Badekas	;	Com.VI President
F.Hegyí	;	Com.VII President
J.Trinder	;	Chairman of Ad-hoc Com. on Statutes and Bylaws
J.Hothmer	;	Editor in Chief, ISPRS Journal

0. Opening

K.Torlegard, President of ISPRS welcomed all Council members, seven Commission Presidents as well as the four observers at 14:00p.m. on September 21, 1990.

1. Review of Commission and WG Activities

Each commission president reported WG activities and the mid-term symposium.

Summary of the seven symposia with respect to the main theme, number of participants and number of presented papers is shown in appendix B.

There were some working groups of which working group chairmen were replaced by other persons as shown in Appendix C.

2. Plans for Next Two Years

Each commission president reported the future plans of WG Workshops up to Washington ISPRS Congress in 1992. The plans of WG workshop is shown in Appendix D.

3. Congress Preparation

Each commission president presented a proposal of required number of sessions with the titles which makes 108 sessions in total though only 70 sessions and 7 special sessions are available at Washington Congress.

After serious discussions and negotiations between Congress Director, Council and Commission Presidents as well as among Commission Presidents, L.Fritz, Congress Director proposed 69 sessions with one vacancy and 7 special sessions with the titles. Allocation of number of sessions is shown in Appendix E.

L.Fritz confirmed the process till Washington Congress which is shown in Appendix G.

4. Report of Ad-hoc Committee on Statutes and Bylaws

J.Trinder, Chairman of Ad-hoc Committee explained the background of the Committee and presented some highlight points of Position Paper. The highlights are 1)to improve the Mission Statement of ISPRS and Terms of Reference of Technical Commissions in order to meet the requirements of GIS and machine vision, 2)to enable multiple national member organizations to apply for ordinary membership and 3)to organize joint congresses every two years instead of the current seven mid-term symposia in different countries.

K.Torlegard, President invited Commission Presidents to present their input for consideration by Council.

4.1 Mission and Terms of Reference

F.Hegyí, Com.VII President, expressed that GIS is apparently handled in ISPRS, but it should be clarified which parts of GIS should be included in ISPRS.

A.Gruen, Com.V President made a comment that ISPRS treats mainly data acquisition, data processing, data interpretation and data representation through imagery form. He suggested that ISPRS should identify the role of ISPRS in GIS.

K.Szangolies, Com.II President mentioned that photogrammetry and remote sensing is a science of data acquisition, theory, application etc, so that ISPRS should concentrate in the science, particularly to meet computer technology.

Li Deren, Com.III President expressed his view that ISPRS is based on digital image data and spatial information including GIS.

T.Hirai, Com.IV President pointed that application of GIS is so important that an integrated system should be established in cooperation with other societies.

J.Badekas, Com.VI President suggested that ISPRS should stay in mapping science including GIS.

The meeting adopted a proposal by A.Gruen that Ad-hoc Committee on Restructure of Technical Commissions should be established until 1992 Washington Congress.

The following three persons were selected as members.

A.Gruen ; Chairman
I.Katzarski
F.Hegy

The main tasks of Ad-hoc Committee are to review the terms of reference and to make a proposition of the restructure of technical commissions.

4.2 Multiple Membership

Many opinions for and against multiple membership were presented but the meeting did not reach a conclusion. However, the meeting recognized that ISPRS should be open to any person who is interested in photogrammetry, remote sensing, GIS and machine vision. The meeting also recognized that it is a key point to collect better papers and more people in ISPRS events.

4.3 Joint Symposia

A majority of participants did not agree the congresses to be held every two years. However the meeting recognized that some commission symposia could be merged.

J.Trinder suggested that Com.IV and Com.VII could be merged into one symposium at mid-term.

M.Barbosa suggested that Com.I and Com.II could be also merged into one symposium.

5.Publication

5.1 Archives

S.Murai, Secretary General requested Commission Presidents to report him the availability of proceedings of mid-term symposia with respect to

- * how many copies available
- * where to order
- * cost

Action J-1

5.2 Official Journal

J.Hothmer, Editor in Chief of ISPRS Journal reported the recent activity of editing committee as follows.

- 1) Mrs. D.J. Bethel will be responsible for Book Review
- 2) Number of subscribers has decreased 25 per cent in these five years.
- 3) A special discount (50 % reduction) rate, 86.5 US Dollars is available for individuals who are members of national societies affiliated to ISPRS.

J.Hothmer proposed that new contract of publisher with ELSEVIER should be reconsidered and then ISPRS should negotiate with some other publishers under a newly specified "Requirements for a Publisher" drafted by J.Hothmer.

K. Atkinson proposed that ISPRS could be a Publisher herself. But there were many oppositions.

K. Torlegard requested all members test votes after long discussion whether ISPRS request bids from other publishers or not. The meeting decided that ISPRS should request bids from Wichmann, Springer, Taylor & Francis, de Gruyter and Cambridge University Press within three months. The draft of "Requirements for a Publisher" will be immediately corrected or modified by K. Torlegard and K. Atkinson.

Action J-2

5.3 Newsletter

No discussion was made.

6. Report of IUSM

K. Torlegard reported the activities of Executive Board and Council Meeting of IUSM which was held in June, 1990 in Helsinki, Finland including IUSM's Statutes, WG's on GPS, education and GIS. He reported that ISPRS is responsible for WG on GPS.

The meeting selected the four voting members in addition to two Executive Board members as follows.

Executive Board: K. Torlegard, G. Konecny
Voting Members : S. Murai, L. Fritz, A. Gruen, F. Hegyi

The next meeting of IUSM will be held in conjunction with ICA Conference in Bournemouth, UK between Sep. 23 and Oct. 1, 1991.

7.Next Meeting

The next joint meeting with Council and Commission Presidents will be held March 24-26,1991 in conjunction with Council Meeting as well as ASPRS Annual Convention. Commission Presidents are also invited to a joint meeting with Council and commission Presidents to be held on 21-24 March, 1992 in Southampton or Glasgow as follows.

1992	March	21	Sat.	Arrival
		22	Sun.	Tutorials/Social Events
		23	Mon.	Joint Meeting
		24	Tue.	Morning ;continued Afternoon;council Meeting
		25	Wed.	continued
		26	Thu.	Departure

8.Miscellaneous

8.1 President's Citation

K.Torlegard requested Commission Presidents to nominate a person who has contributed remarkably to the activity of each technical commission.

Action J-3

8.2 Gift

L.Fritz, Congress Director presented Council and Commission Presidents with a book, "Discover America",for their cooperation and contribution with respect to Congress preparation.

K.Torlegard, President thanked all members for having contributed to the successful joint meeting.

List of Appendix

- Appendix A: Agenda
- Appendix B: Summary of ISPRS Mid-term symposia, 1990
- Appendix C: Updated Working Groups of Technical Commissions
September, 1990
- Appendix D: Plans of WG Workshops, 1990-1992
- Appendix E: Allocation of Technical Sessions at Washington
ISPRS Congress 1992
- Appendix F: Titles of Technical Sessions and Special Sessions

AGENDA

Joint Meeting with Council and Commission Presidents
Sidney Room, Conference Centre
September 21-22, 1990
Victoria, Canada

Time Table

Sept. 21 Friday	14:00	Opening
	18:30	Adjourn
	19:00	Dinner
Sept. 22 Saturday	9:00	Editor's Report
	10:00	John Trinder's Report
	12:00	Lunch
	13:00	Continued
	15:00	Closing

0. Opening
1. Review of Commission and WG Activities
2. Plans for Next Two Years
3. Congress Preparation
 - 3.1 Session Requirement
 - 3.2 Special Session
 - 3.3 Titles and Keywords
 - 3.4 Invited Papers
 - 3.5 Technical Commission's Business Meeting
-WC Reports and Resolutions
 - 3.6 Process Review
4. Report of Ad-hoc committee on Statutes and Bylaws
5. Publication
 - 5.1 Archives
 - 5.2 Official Journal
 - 5.3 Newsletter
6. Report of IUSM
7. Next Meeting
8. Miscellaneous
 - 8.1 President's Citation
 - 8.2 Others

Appendix B

Summary of ISPRS Mid-term Symposia 1990

- Commission I: How Can Remote Sensing Help the Amazonia?
June 26-29,1990 Manaus,Brazil
Number of participants=208 from 25 countries
Number of papers=40
- Commission II: Progress in Data Processing and Analysis
September 9-12,1990 Dresden,GDR
Number of participants=80 from 16 countries
Number of papers=60
- Commission III: Progress in Data Analysis
May 22-25,1990 Wuhan,China
Number of participants=115 from 24 countries
Number of papers=40
- Commission IV: Cartographic and Database Application of Photogrammetry and Remote Sensing
May 15-18,1990 Tsukuba,Japan
Number of participants=322 from 29 countries
Number of papers=43+50 posters
- Commission V: Close Range Photogrammetry Meets Machine Vision
September 4-7,1990 Zurich,Switzerland
Number of participants=309 from 30 countries
Number of papers=115+50 posters
- Commission VI: Modern Trends of Education in Photogrammetry and Remote Sensing
September 13-15,1990 Rhodes,Greece
Number of participants=83 from 21 countries
Number of papers=26
- Commission VII: Global and Environmental Monitoring-Techniques and Impacts
September 18-21,1990 Victoria,Canada
Number of participants=400 from 35 countries
Number of papers=160+10 posters
- Total: Com.I-Com.VII Number of participants=1,423
Number of papers = 484+60 posters

Appendix C

Updated Working Groups of Technical Commissions October 1990 - August 1992

(* New WG Chairman or Co-chairman)

Commission I Primary Data Acquisition

WG I/1: Optical Sensors for Remote Sensing
Chairman: Dr. Hartmut Ziemann (Sweden)

WG I/2: Digital Imaging System
Chairman: Mr. Alexander Merametdjian (France)
Co-chairman: Dr. Decio Castilko Ceballos* (Brazil)

WG I/3: Microwave Remote Sensing Systems
Chairman: Dr. John Curlander (USA)
Co-chairman: Mr. Ulf Walter Palme* (Brazil)

WG I/4: Sensor Orientation and Navigation
Chairman: Prof. Denizar Blitzkow* (Brazil)

IC WG I/IV: International Mapping and Remote Sensing Satellite
System
Chairman: Prof. G. Konecny (F.R. Germany)

Special Topic: Future Remote Sensing Missions and Early Results
of New Systems
Rapporteur: Prof. Placidino Fagundes (Brazil)

Commission II Systems for Data Procedure and Analysis

WG II/1: Analytical Instruments
Chairman: Mr. Morris L. McKenzie (USA)

WG II/2: Systems for Analysis of Remotely Sensed Data
Chairman: Prof. Manfred Ehlers* (The Netherlands)

WG II/3: Systems for Reception, Recording, Preprocessing,
Archiving and Dissemination of Remotely Sensed Data
Chairman: Mr. Fred C. Billingsley (USA)
Co-chairman: Prof. Dieter Felske (GDR)

WG II/4: Systems and Instrumentation for Microwave Data
Processing*
Chairman: Dr. Horst Weichelt* (GDR)

WG II/5: Integrated Photogrammetric Systems
Chairman: Dr. Atef A. Elassal (USA)

IC WG I/II: Acquisition and Use of Space Photographic Data for
Mapping and Map Revision
Chairman: Dr. Vladimir Kiseljev (USSR)
Co-chairman: Prof. Karlheinz Marek (GDR)

IC WG II/III: Design and Algorithmic Aspects of Digital
Photogrammetric Systems
Chairman: Prof. Heinrich Ebner (F.R. Germany)
Co-chairman: Prof. Ian Dowman (United Kingdom)

IC WG II/VI: Newsletter-Instrumentation for Teaching
Editor: Prof. Ian Dowman (United Kingdom)

Commission III Mathematical Analysis of Data

WG III/1: Geographic Information Theory
Chairman: Dr. Martien Molenaar (The Netherlands)
Co-chairman: Dr. Riehart Groot (Canada)

WG III/2: Object Reconstruction and Location by Image Analysis
Chairman: Dr. Wolfgang Foerstner (F.R. Germany)
Co-chairman: Dr. Robert M. Haralick (USA)

WG III/3: Thematic Information Extraction from Digital Image
Chairman: Dr. Tony Scheuk (USA)
Co-chairman: Dr. Bernd-Siegfried Schulz (F.R. Germany)

WG III/4: Knowledge Based System
Chairman: Dr. N.J. Mulder (The Netherlands)
Co-chairman: Dr. Tapani Sarjakoski (Finland)

IC WG II/III: see Com. II

IC WG III/IV: Tutorials on Mathematic Aspects of Digital
Photogrammetric Systems
Chairman: Dr. Luigi Mussio (Italy)
Co-chairman: Dr. Th. Bouloucos (The Netherlands)

Commission IV Cartographic and Database Application of Photogrammetry and Remote Sensing

WG IV/1: Digital Mapping
Chairman: Mr. Minoru Akiyama (Japan)

WG IV/2: Mapping from Space
Chairman: Mr. Alain Baudoin (France)

WG IV/3: Map Revision
Chairman: Mr. Paul Newby (United Kingdom)

WG IV/4: Specification for Photogrammetric Procedure
Chairman: Mr. Jon Kure (The Netherlands)
Co-chairman: Mr. Mahamed M. Radwan (The Netherlands)

WG IV/5: Geographic Information Systems
Chairman: Prof. Roy A. Welch (USA)

WG IV/6: Extraterrestrial Mapping
Chairman: Dr. Sherman Wu (USA)

WG IV/7: Digital Elevation Model
Chairman: Dr. Luiz A. Vieira-Dias (Brazil)

Commission V Close-Range Photogrammetry and Machine Vision

WG V/1: Digital and Real Time Close-Range Photogrammetric Systems
Co-chairman: Dr. Sabry F. El-Hakim (Canada)
Co-chairman: Prof. Kam W. Wong (USA)

WG V/2: Close-Range Imaging Systems - Calibration and Performance
Co-chairman: Prof. John G. Fryer (Australia)
Co-chairman: Prof. Wilfried Wester-Ebbinghaus (F.R. Germany)

WG V/3: Image Analysis and Image Synthesis in Close-Range Photogrammetry
Co-chairman: Dr. Dieter Fritsch (F.R. Germany)
Co-chairman: Dr. Jan-Peter Muller (United Kingdom)

WG V/4: Structural and Industrial Measurements with Consideration of CAD/CAM Aspects
Co-chairman: Dr. Clive S. Fraser (USA)
Co-chairman: Prof. Heinz Ruether (South Africa)

WG V/5: Photogrammetry in Architecture and Archaeology
Co-chairman: Ross W.A. Dallas (United Kingdom)
Co-chairman: Dr. Landolf Mauelshagen (F.R. Germany)

WG V/6: Biostereometrics and Medical Imaging
Co-chairman: Prof. Andreas Engel (Switzerland)
Co-chairman: Prof. Peter Niederer (Switzerland)

Associate Group: Robot Vision
Chairman: Dr. Reimar Lenz (F.R. Germany)

Commission VI Economic, Professional and Educational Aspects of Photogrammetry and Remote Sensing

WG VI/1: History
Chairman: Dr. Frederick Doyle (USA)
Co-chairman: Prof. Z. Sitek (Poland)

WG VI/2: Education, Training and Educational Standards for Photogrammetry and LIS
Chairman: Prof. G.P. Ellis (Australia)
Co-chairman: TBD* (Asia)
Prof. S. Ghosh (Europe & N. America)
Prof. O.O. Ayeni (Africa) / Dr. G. Barnes (USA)

WG VI/3: Terminology-ISPRS Multilingual Dictionary(MLD)
Chairman:Dr.G.Lindig(F.R.Germany)
Co-chairman:Prof.H.P.Bahr(F.R.Germany)
Dr.Sievers(F.R.Germany)

WG VI/4: Economics and Business Management
Chairman:TBD*

WG VI/5: Technical Cooperation
Chairman:Mr.C.Paresi*(The Netherlands)

WG VI/6: Literature Retrieval Systems for Photogrammetry and
Remote Sensing
Chairman:Prof.Jurgen Hothmer(F.R.Germany)

WG VI/7: Education, Training and Educational Standards for
Remote Sensing and GIS
Chairman:Prof.John R.Jensen(USA)

Task Force on National Reports
Chairman:Prof.A.J.Brandenburger(Canada)

Commission VII Interpretation of Photographic and Remote Sensing Data

WG VII/1:Physical Measurements and Signatures in Remote Sensing
Chairman:Dr.G.Guyot(France)
Co-chairman:Dr.Tibor Dobos(Hungary)

WG VII/2:Spatial Information Extraction and Manipulation
Chairman:Dr.P.I.Sallaway(Canada)
Co-chairman:Prof.S.Poso(Finland)

WG VII/3:Renewable Resources
Chairman:Dr.Randall Thomas*(Denmark)
Co-chairman:Dr.Gabor Remetey Fulopp*(Hungary)

WG VII/4:Non-Renewable Resources
Chairman:Dr.T.Woldai*(The Netherlands)
Co-chairman:Dr.D.Mouat(USA)

WG VII/5:Water & Atmospheric Remote Sensing
Chairman:Dr.K.A.Ulbricht(F.R.Germany)
Co-chairman:Dr.E.M.Novo(Brazil)

WG VII/6:Human Settlements
Chairman:Dr.Bruce Forster(Australia)
Co-chairman:Dr.C.P.Lo(USA)

WG VII/7:Expert System Application for Remote Sensing
Chairman:Dr.David Goodenough(Canada)

IC WG I/VII:Global Monitoring
Chairperson:Dr.L.Sayn-Wittgenstein(Canada)

Appendix D

Plans of WG Workshops October 1990 - August 1992

Commission I

WG I/3 and CEOS

SAR Calibration Workshop
DLR Oberpfaffenhofen, F.R.Germany
January 28, 29, 30, 1991

WG I/4

Workshop on Sensor Orientation and Navigation
Sao Paulo, Brazil
July, 1991

IC WG I/IV + IC WG I/II

International Mapping and Remote Sensing Satellite
System
Moscow, USSR
October, 1991

Commission II

IC WG II/III + WG V/1&3

Workshop on Design Aspects of Digital Photogrammetric
Systems
Boulder, Colorado, USA
March 21-22, 1991

Conference on Digital Photogrammetric Workstations
Munich, F.R.Germany
September 4-6, 1991

Commission III

WG III/1: Canada, September, 1991

WG III/2 + IEEE

Joint Workshop on Robust Computer Vision
Seattle, USA
September 30 - October 3, 1990

IC WG II/III: see Com.II

Commission IV

WG IV/2: Paris, France , October 2-3, 1990

WG IV/3 + OEEPE

Use and Future Developments of Superimposition Systems

-Progress towards Automated Change Detection
Oxford, United Kingdom*
September 16-17, 1991

WG IV/6: Control Network of Venus Moon
Houston, USA
March 16-18, 1991

WG IV/7: Visualization of DEM
Rio de Janeiro, Brazil
March or April, 1991

*Photogrammetric Society+Remote Sensing Society+ASPRS
Oxford, United Kingdom
September 18-20, 1991

Commission V

WG V/1
Conference on Industrial Vision Metrology
Winnipeg, Manitoba, Canada
July 11-13, 1991

WG V/2 + First Australian Photogrammetric Conference
Sydney, Australia
November 7-9, 1991

WG V/4: Workshop on Advances in Close-Range and Digital
Photogrammetry
Pretoria, South Africa
July 19, 1991

WG V/5: CIPA Symposium
Cracow, 23-26 October, 1990
CIPA Symposium
Delphi, October, 1991

*FIG Com.6:International Symposium on Engineering Surveys
Sofia, Bulgaria
September 16-20, 1991

Commission VII

WG VII/1:	France,	January 1991
WG VII/2:	Asia	Fall 1991
WG VII/3:	Hungaria,	May 1991
WG VII/4:	The Netherlands,	June 1991
WG VII/5:	Australia	Fall 1991
WG VII/6:	Australia	November 1991
WG VII/7:	Ottawa,Canada	March 1991
IC WG I/VII:	Hungary	May 1991
	Brazil	1991

Appendix E

Allocation of Technical Sessions
at Washington ISPRS Congress 1992

Com.	I	II	III	IV	V	VI	VII	Total
First Proposal	8	11	14	13	21	6	35	108
Final Plan	6	9	10	11	16	4	13	69
WG 1	1	1	1	2	1		2	
2	1	1	2	2	2		1	
3	1	1	1	1	3		2	
4	1	1	1	1	3		1	
5	1			1	1		2	
6				1	2		1	
7				2	2		2	
IC I/II		1						
II/III		1	1					
I/VII							2	
I/IV	1							
Joint		3	3	1	2			
General			1			4		
IUSM	1					1	1	
Special Session			1			1		

Commission I

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
TS	Standards and Specifications in Aerial and Space Photography	WGI/1-H.Zeimann
TS	Remote Digital Image Acquisition	WGI/2-A.Merametdjian
TS	Microwave Image Acquisition	WGI/3-J.Curlander
TS	Sensor Orientation and Navigation	WGI/4-D.Blitzkow
IU-GP	Methods and Techniques on GPS	WGI/4-G.Seeber
SS-08	The Possibility and Role of an International Remote Sensing Board	IC WG I/IV-G.Konecny
TS	Future Remote Sensing Mission and Early Results of New Systems	I/ST-P.Fagundes
SS-04	The Role of Tropical Forest and Oceans in Global Change	Com.I-M.Barbosa

Commission II

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
TS	Advances in Development of Analytical Stereoplotters	WG II/1-M.Mckenzie
TS	Systems for Image Interpretation, Analysis and display of Remotely Sensed Data	WG II/2-M.Ehlers
TS	Systems for Integration of GIS and Remote Sensing	Joint WGII/2,WGVII/2-M.Ehlers
TS	Receipt,Preprocessing and Archiving of Large Volumes of Data in Remote Sensing	WG II/3-F.Billingsley
TS	Systems and Instrumentation for Microwave Data Processing	WG II/4-H.Weichelt
TS	Digital Photogrammetric Workstations(DPW)	Joint WGII/5,V/1-A.Elassal
TS	Design Aspects of Digital Photogrammetric Systems	IC WG II/III-H.Ebner

TS	Algorithms and Software Concepts for Digital Photo- grammetric Workstations	Joint WGII/5,V/3, IC WG II/III- H.Ebner
TS	Tomorrow's Digital Systems	Joint IC WGII/III, III/2,III/4,II/5,V/1 -I.Dowman
TS	Advances in Space Photography and Its Use	IC WG II/I-W.Kiseljev
MF-1	Manufacturer's Forum-Session I (15 min.ea.)	Com.II-K.Szangolies
MF-2	Manufacturer's Forum-Session II (10 min.ea.)	Com.II-K.Szangolies

Commission III

Session Code

Session Title

Session Organizer

TS	Geographic Information Theory	WG III/1-M.Molenaar
TS	Object Reconstruction and Location by Image Analysis	Joint WG III/2,V/3- W.Foerstner
TS	Image Understanding in Photogra- mmetry and Remote Sensing	WG III/2-W.Foerstner
TS	Thematic Information Extraction from Digital Images	Joint WG III/3,IV/2, VII/2-T.Schenk
TS	Simultaneous Interpretation of Different Digital Recordings	Joint WG III/3,VII/2 -B.Schulz
TS	Knowledge Based System	Joint WG III/4,VII/7 -N.Mulder
TS	Knowledge Engineering,Applica- tion,and Systems	Joint WG III/4,VII/7 -T.Sarjakoski
TS	Progress in Photogrammetric Data Analysis:New Theories and Algorithms	Com.III-Li Deren (IC WGIII/VI -L.Mussio)
TS	Computer Vision and Computer Graphics-Algorithms for Metrology	Joint Com.III,V -Li Deren

Commission IV

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
TS	Automatic Structuring of Geo Data	WG IV/1-M.Akiyama
TS	Map Production Thru Digital Procedures	Joint WG IV/1,VII/2 -M.Akiyama
TS	Topographic Mapping with Digital Imagery	WG IV/2-A.Baudoin
TS	Thematic Mapping with Digital Imagery	Joint WG IV/2,VII/2 -A.Baudoin
TS	Towards the Automation of Map Revision-Or-Progress in Map Revision Processes	WG IV/3-P.Newby
TS	Accuracy and Quality Standards of Photogrammetric Data	Joint WG IV/4,II/3 -J.Kure
TS	Visualization of GIS Output	Joint WG IV/5,III/1, VII/2-R.Welch
TS	From Digital Mapping to GIS	Joint WG IV/1,III/1, VI/5-R.Welch
TS	Planetary Mapping	WG IV/6-S.Wu
TS	Construction and Management of Large DEM Data Bases	Joint WG IV/7-J.P. Muller Letter-L.Diaz
TS	Applications of Geographic Information Theory	Joint Com.IV,III,VII -T.Hirai

Commission V

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
TS	Metric Machine Vision Systems	WG V/1-K.Wong
TS	Machine Vision Systems for Industrial Photogrammetry	WG V/1-S.El-Hakim
TS	CCD-Camera Calibration and Performance	WG V/2-W.Ebbinghaus
TS	Recording, Digitization and Calibration of Imaging Sensors	WG V/2-J.Fryer

TS	Algorithmic Aspects in Close-Range Image Analysis	WG V/3-D.Fritsch
TS	Image Analysis and Image Synthesis in Architectural Photogrammetry and Machine Vision	JointWG V/3,WG V/5 -L.Mauelshagen
TS	Hardware Architecture,Real-Time Analysis and Image Synthesis	Joint WG V/3 -J.P.Muller
TS	Image Analysis and Synthesis in On-Line Applications	Joint WG V/3,III/2, IC WG II/III-D.Fritsch
TS	Photogrammetry and CAD/CAM: The Industrial Connection	WG V/4-C.Fraser
SS-05	Dimensional Inspection and Quality Control in the Manufacturing Industry: Requirements, Techniques,Perspectives	WG V/4-C.Fraser, A.Gruen
TS	Industrial Measurement Applications	WG V/4-H.Reuther
TS	Architectural and Archeological Photogrammetry	WG V/5-R.Dallas
TS	Biological Surface Measurements and 3-D Microscopy	WG V/6-A.Engel
TS	Human Motion Analysis	WG V/6-P.Niederer
TS	Robot Vision and Navigation	AG V-R.Lenz
TS	3D-TV Real-Time Tracking and Control	AG V-E.Baltsavias

Commission VI

Session Code

Session Title

Session Organizer

TS	History,Terminology,Economics and Standards of Photogrammetry and Remote Sensing	Joint WG VI/1,VI/2, VI/3,VI/4,VI/7 -J.Badakas
TS	Education and Training in Photogrammetry and Remote Sensing	Joint WG VI/2,VI/7 -G.Ellis
IU-ED	Education and Training in LIS and GIS	Joint WG VI/2,VI/7 -G.Barnes
TS	Literature Retrieval and Bibliography for Photogrammetry and Remote Sensing	WG VI/6-J.Hothmer

TS Computerized Teaching

Joint WG VI/III,
Com.II/VI
Newsletter-A.Georgopoulos
(or T.Bouloucos)

Commission VII

Session
Code

Session Title

Session Organizer

TS	Spectral Signatures	WG VII/1-G.Guyot
TS	Applications from Active and Passive Microwave Sensing	WG VII/1-G.Guyot
TS	Integrated GIS/Image Analysis Systems in Global Monitoring	WG VII/2-P.Sallaway
IU-GI	Large Shared Data Bases in Global Monitoring	WG VII/2-P.Sallaway
TS	Renewable Resource Inventory and Monitoring with Remote Sensing/GIS	WG VII/3-R.Thomas
TS	Renewable Resource Inventory and Monitoring with Remote Sensing/GIS	WG VII/3-R.Thomas
TS	Applications of GIS/Image Analysis in Non-Renewable Resources	WG VII/4-T.Woldai
TS	Atmospheric Remote Sensing	WG VII/5-K.Ulbricht
TS	Ocean and Coastal Zone Monitoring with Remote Sensing	WG VII/5-K.Ulbricht
TS	Monitoring Change in Urban Areas with GIS/Image Analysis	WG VII/6-B.Forster
TS	Knowledge Based Techniques for Data Fusion	WG VII/7-D.Goodenough
TS	Applications of Expert Systems and Artificial Intelligence in Environmental Management	WG VII/7-D.Goodenough
TS	Tropical Forest and Land Use Monitoring	IC WG VII/1 -Sayn-Wittgenstein
TS	Monitoring of Critical and Environmentally Unique Areas	IC WG VII/1 -Sayn Wittgenstein
SS-06	Early Warning Systems and Monitoring Natural Disaster	IC WG VII/1 -Sayn-Wittgenstein

Special Sessions

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
SS-01	International Technical Cooperation: How to Promote Remote Sensing in Developing countries	S.Murai(VI)
SS-02	UN Issues for Management of Earth Resources and Environment	A.Abiodun
SS-03	The International Geosphere/ Biosphere Program	I.Rasool
SS-04	The Role of Tropical Forest and Oceans in Global Change	M.Barbosa(I)
SS-05	Dimensional Inspection and Quality Control in Manufacturing Industry- Requirements, Techniques, Perspectives	C.Fraser, A.Gruen(V)
SS-06	Early Warning Systems and Monitoring Natural Disaster	L.Sayn-Wittgenstein (VII/I)
SS-07	Space Imaging Activities Conducted by Astronauts	K.Lulla
SS-08	The Possibility and Role of an International Remote Sensing Board	G.Konecny(I/IV)
SS-09 & SS-10	The ISY Program-Status and Results	J.McLucas H.Myerson

IUSM Sessions

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
IU-GP	Methods and Techniques on GPS	G.Seeber
IU-ED	Education and Training in LIS and GIS	G.Barnes(WG VI/2, VI/7)
IU-GI	Large Shared Data Bases in Global Monitoring	P.Sallaway(WG VII/2)

United Nations Interregional Seminar for Developing Countries

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
UN-01	Technology Transfer to Developing Countries	K.Szekiela
UN-02	Educational Aspects, Requirements and Needs in Developing countries	K.Szekiela
UN-03	Integration and Management of Technology in Developing Countries	K.Szekiela

ISPRS TUTORIALS

<u>Session Code</u>	<u>Session Title</u>	<u>Session Organizer</u>
TU-01	Fundamentals of Real-Time Photogrammetry Lecturers: E. Baltsavias H. Beyer D. Fritsch R. Lenz	Comm V-A. Gruen
TU-02	TBD Lecturers: G. Konecny -Space Photogrammetry H. Ebner -Digital Photogrammetric Processing E. Kilpela -TBD TBD -Digital Photogrammetry in Developing Countries	Intercomm. III/VI -L. Mussio