

FOREWORD

This "Silver Book" has been prepared to provide interested persons with current information concerning the **International Society for Photogrammetry and Remote Sensing**. It contains a brief history of the Society and summary statements regarding objectives, membership, organization, activities, etc. Some of these statements are condensed from the Statutes and Bylaws which govern the operations of the Society. The complete ISPRS Statutes, Bylaws and Awards of the Society are included in Appendix B, as are Society Guidelines.

The current four-year (2004-2008) organisation and programme of the Society are covered in Appendix A. Scientific and technical program activities, responsibilities and officer addresses are listed in summarized form to provide ready reference for interested parties. Since a different group of officers and program leaders manage ISPRS activities during each four-year period, the Appendix A is revised every four years to reflect the current composition of the management group.

Only the English version of Statutes & Bylaws is included in the Silver Book.

Details in the Silver Book are also available on the ISPRS Home Page on <http://www.isprs.org/>

Orhan ALTAN
Secretary General, 2004-2008

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THE INTERNATIONAL SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

HISTORICAL BACKGROUND

In 1910, the International Society of Photogrammetry (ISP) was founded under the leadership of its first President, Eduard Dolezal, from Austria. After 70 years of functioning under its original name, the Society changed its name in 1980 to the International Society for Photogrammetry and Remote Sensing (ISPRS) and in 2000 added spatial information sciences to its area of interest.

Photogrammetry and Remote Sensing is the art, science, and technology of obtaining reliable information, from noncontact imaging and other sensor systems, about the Earth and its environment, and other physical objects and processes through recording, measuring, analysing 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.

The term of photogrammetry was first used in published work in 1867 when the art and science of photography itself was still in its infancy. Over the last 80 years the principal application of photogrammetry has been the compilation of maps from aerial photographs. During the most recent decade photogrammetry and remote sensing has provided the primary source data for Geographic Information Systems. There has been in addition a continuing development of applications of photogrammetric close-range techniques to many other fields - engineering, architecture, archaeology, medicine, law, machine vision etc.

Surveillance and environmental imaging and interpretative studies from aircraft and Earth satellites, using sensors which operate in the various parts of the electromagnetic spectrum -ultraviolet, visible, infrared, thermal, and microwave - have come to be called "Remote Sensing". There is no special significance, however, in the degree of "remoteness" of the sensor from the object surveyed, and any form of non-contact observation can be regarded as remote sensing. There is no clear-cut distinction between photogrammetry and remote sensing, and it is for this reason that the Society changed its name in 1980.

Except for interruptions during World Wars I and II, the Society has carried on its activities continuously since its founding. These activities culminate every four years at the International Congress on Photogrammetry and Remote Sensing. The Congress includes the presentation of scientific and technical papers, technical tours, scientific and commercial exhibits, meetings to conduct the business of the Society, and a social program. The locations of the Congresses from 1910 to 2004, and the planned Congress for 2008, are as follows:

1. 1913 Vienna, Austria
2. 1926 Berlin, Germany
3. 1930 Zurich, Switzerland
4. 1934 Paris, France
5. 1938 Rome, Italy
6. 1948 The Hague, The Netherlands
7. 1952 Washington, DC, USA
8. 1956 Stockholm, Sweden
9. 1960 London, United Kingdom
10. 1964 Lisbon, Portugal
11. 1968 Lausanne, Switzerland
12. 1972 Ottawa, Canada
13. 1976 Helsinki, Finland
14. 1980 Hamburg, F.R. Germany
15. 1984 Rio de Janeiro, Brazil
16. 1988 Kyoto, Japan
17. 1992 Washington, DC, USA
18. 1996 Vienna, Austria
19. 2000 Amsterdam, The Netherlands
20. 2004 Istanbul, Turkey
21. 2008 Beijing, China (then next Congress)

The Presidents of ISP from 1910 to 1980 and of ISPRS from 1980 to 2008 are as follows:

ISP

- 1910-1913 E. Dolezal, Austria
1913-1926 E. Dolezal, Austria
1926-1930 O. Eggert, Germany
1930-1934 Gen. Perriet, 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.L Brown, United Kingdom
1960-1964 A.P. Clemente, Portugal
1964-1968 H. Harry, Switzerland
1968-1972 L. Solaini, Italy
1972-1976 Samuel G. Gamble, Canada
1976-1980 Jean Cruset, France

ISPRS

- 1980-1984 Frederick J. Doyle, USA
1984-1988 Gottfried Konecny, F.R. Germany
1988-1992 Kennert Torlegard, Sweden
1992-1996 Shunji Murai, Japan
1996-2000 Lawrence Fritz, USA
2000-2004 John Trinder, Australia
2004-2008 Ian Dowman, UK

OBJECTIVES

The International Society for Photogrammetry and Remote Sensing is a non-governmental organization devoted to the development of international cooperation for the advancement of photogrammetry and remote sensing and their applications. The Society operates without any discrimination on grounds of race, religion, nationality, or

political philosophy. The official languages are English, French and German.

The principal activities of the Society are:

1. Stimulating the formation of national or regional Societies of Photogrammetry and Remote Sensing.
2. Initiating and coordinating research in photogrammetry and remote sensing.
3. Holding international Symposia and Congresses at regular intervals.
4. Ensuring worldwide circulation of the records of discussion and the results of research by publication of the *International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*.
5. Encouraging the publication and exchange of scientific papers and journals dealing with photogrammetry and remote sensing.

The operations of the Society are governed by Statutes and Bylaws adopted in 1968 and as amended in 1972, 1980, 1984, 1988, 1992, 1996, 2000 and 2004.

MEMBER TYPES

1. Ordinary Members

A country, or a region thereof having an independent budget, which represents the whole community of photogrammetrists and remote sensing experts in the country or region, may join the Society through a single Member organization which usually is the National Society for Photogrammetry and Remote Sensing.

2. Associate Members

An organization which represents a community of photogrammetrists, remote sensing experts and/or spatial information system experts 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.

3. Regional Members

A multi-national association of photogrammetry and/or remote sensing organizations established for the purpose of considering issues of common interest, promoting regional cooperation, convening regional conferences etc.

4. Sustaining Members

Individuals, organizations, institutions, or agencies who manufacture or distribute instruments, equipment or supplies, who operate or provide services in the fields of photogrammetry and/or remote sensing, or who are engaged in research and/or education and who contribute to the financial support of the Society.

5. Honorary Members

Individuals whose efforts in photogrammetry and remote sensing are exceptionally distinguished and who are duly nominated and elected.

Other than Honorary and Sustaining Members, individuals are not eligible to become members of ISPRS. An individual usually participates in the activities of the Society through affiliation with one of the Member organizations.

ORGANISATION

The principal elements for directing and managing the Society are the General Assembly, the Council, and the Congress.

1. The **General Assembly** determines the general policy of the Society and is the supreme authority for all decisions. Each Member organization appoints one delegate (with two advisers) to attend the meetings of the General Assembly held during Congresses.
2. The **Council** includes the President, the Congress Director, the First Vice-President, the Second Vice-President, the Secretary General and the Treasurer. The Council is elected by the General Assembly and conducts the normal administrative affairs of the Society in the interval between meetings of the General Assembly in accordance with the Statutes and Bylaws, and the directives of the General Assembly and the Congress. A meeting of the Council is convened at least once each year.
3. The **Congress** consists of all the photogrammetrists and remote sensing specialists present who are affiliated with a Member organization and others who have been invited. The Congress convenes every four years. The Congress site is selected by the General Assembly from proposals made by Members. Arrangements for all activities at the Congress are the responsibility of the Congress Director who is nominated by the Member which hosts the Congress.

TECHNICAL COMMISSIONS

The scientific and technical work of the ISPRS is accomplished by eight **Technical Commissions**. Each Commission is sponsored by a Member organization for the four-year period between Congresses, and responsibility is re-designated by the General Assembly at each Congress based upon proposals submitted by the Members. The direction of a Technical Commission is the responsibility of a President and Secretary, acting with the support of the sponsoring Member, and under the general direction of the Council. Technical Commissions organize Working Groups, and each Commission arranges a Symposium between Congresses, for which it is entirely responsible. The culmination of the Technical Commission's operation is the selection of papers to be presented at the Congress held at the conclusion of the four-year period.

PUBLICATIONS

The publications of ISPRS are in five categories:

1. The *International Archives of Photogrammetry and Remote Sensing and Spatial Information Sciences* contain the proceedings and the scientific and technical presentations of each Congress, edited and distributed by the Member organization responsible for the Congress. The scientific and technical presentations at Technical Commission Symposia are also published by the sponsoring Member as volumes of the *Archives*.

2. The *ISPRS Journal of Photogrammetry and Remote Sensing* is the official publication of the Society. It contains scientific and technical articles reviews in the fields of Photogrammetry, Remote Sensing and Spatial Information Sciences, and as such, endeavors to be a primary channel of communication on the scientific activities of ISPRS, for specialists in all countries working in the many disciplines applying photogrammetry, remote sensing and spatial information sciences.
3. The *ISPRS Highlights* is the official e – bulletin of the Society. It contains such items as the ISPRS Annual Reports, general news of ISPRS activities, event reports of ISPRS sponsored conferences, officers lists, keynote speeches, book, project and technology reviews, minutes of Council and Technical Commission meetings, and calls for papers etc. After March 2006, The ISPRS Highlights has been converted to e-Highlights and distributed by e-mail three times in a year.
4. The *ISPRS Organization and Programs* (Silver Book) and the annual publication *ISPRS Member List* (Blue Book) are published to provide Members and interested groups a brief description of the current activities and addresses, and the underlying precepts of the Society.
5. Special circulars and announcements are used to provide information on Congresses, Symposia and other activities of ISPRS.

AWARDS

The International Society for Photogrammetry and Remote Sensing recognizes individual accomplishments through the sponsorship of awards and honours which are granted at each quadrennial ISPRS Congress. Nominations for deserving candidates for awards are welcome and may be made by individuals or organizations at any time, but before the deadlines given overleaf. Each nomination must be in written form (e-mail is acceptable) and submitted to an ISPRS Council member. The following is a brief summary of all awards and honours granted by ISPRS. (Year of initial presentation of each award or honor is denoted in parentheses.) The terms of reference for most awards are provided on the ISPRS home page www.isprs.org/documents/awards.html and published in the Silver Book: ISPRS Organisation and Programmes.

An *ISPRS Honorary Member* (1926), is elected by the Society in recognition of distinguished services to ISPRS and its aims. There may not be more than seven living Honorary Members of the Society at any given time. Honorary Members have the right to attend meetings of the Society and shall not be called upon to pay registration fees at functions sponsored in the name of ISPRS. (The rules for Honorary Members are under review.)

The *Brock Gold Medal Award* (1956), sponsored by the American Society for Photogrammetry and Remote Sensing, is presented for an outstanding landmark in evolution of the photogrammetry, remote sensing and spatial information sciences. The award consists of a gold medallion. Ordinary Members of ISPRS are encouraged

to nominate candidates for the Award. Nominations must be signed by two individuals of different nationalities and also a different nationality from that of the candidate. Nominations should be sent to Secretary General Altan by 1st October 2007.

The *Otto von Gruber Award* (1964), sponsored by the ITC Foundation, is presented to a young (less than 40 years) sole author of a paper of outstanding merit in the photogrammetry, remote sensing and spatial information sciences written in the four year period preceding the Congress. The Award consists of a medal and a monetary grant. Applications may be self nominated and must include three copies of the paper sent to President Dowman by 1st January 2008.

The *U. V. Helava Award* (2000), sponsored by Elsevier Science bv and Leica Geosystems, LLC, consists of a grand prize of SFr. 10,000 and a silver plaque presented to the author(s) of the most outstanding paper published exclusively in the ISPRS International Journal of Photogrammetry and Remote Sensing during the four years preceding the Congress, and three runner-up prizes of a Journal subscription and certificate, presented to the author(s) of the best papers published in each of the other three years preceding the Congress.

The *Gino Cassinis Award* (2000), sponsored by the Italian Society for Surveying and Photogrammetry (SIFET) is presented to a person who has significantly enhanced the mathematical and statistical foundations of the photogrammetry, remote sensing or spatial information sciences in the four years preceding the Congress. The award consists of SFr 2,500 and a certificate. Nominations should be submitted to President Dowman by 1st January 2008.

The *Eduard Dolezal Award* (1996), sponsored by the Austrian Society of Surveying and Geoinformation, is complimentary registration and a grant for limited travel and expense grant at least one individual, from developing or reform countries, to participate in the ISPRS Congress. Candidates are those who have permanently implemented a practical application of photogrammetry, remote sensing or GIS in an efficient manner or which documents their outstanding success in support of these fields. Applications may be self nominated and should be submitted to Secretary General Altan by 1st December 2007.

The *Schwedfsky Medal* (1988), sponsored by the German Society for Photogrammetry and Remote Sensing, is presented to persons who have made significant contributions to photogrammetry, remote sensing and spatial information sciences, either through the medium of publication as author or editor, or in another form. The award consists of a medal manufactured in porcelain and a certificate. Nominations for the Medal should be sent to President Dowman by 1st January 2008.

The *Willem Schermerhorn Award* (1988), sponsored by Geo-Information Netherlands is granted to a person who has most significantly contributed to the activities of a Working Group of the ISPRS during the four year Congress period. The award consists of a certificate. Nominations for the Award should be sent to President Dowman by 1st January 2008.

The *Samuel Gamble Award* (1988), sponsored by the Canadian Institute of Geomatics, is presented to up to three individuals who have contributed significantly to the development, organization or professional activities of the photogrammetry, remote sensing and spatial information sciences, at the national or international level. The award consists of a certificate. Nominations should be sent to Secretary General Altan by 1st January 2008.

The *President's Honorary Citation* (1988), is a certificate of recognition presented by the President of ISPRS to a chairperson, co-chairperson or member of a Working Group of each ISPRS Technical Commission. The citation is to recognize special, personal and meritorious contributions to the operation of the relevant Technical Commission's activities and advancement of its interests, during the quadrennial term of the Society. Nominations should be made by the Technical Commission Presidents to President Dowman by 1st January 2008.

The *Wang Zhizhuo Award* (2008), sponsored by The Chinese Society of Geodesy, Photogrammetry and Cartography (CSGPC) 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. Nominations should be sent to President Dowman by 1st January 2008.

The *ISPRS Prizes for Best Papers by Young Authors*, are sponsored by donor organizations and by ISPRS to authors who are less than 35 years old and are the sole author of a high quality paper presented to the Congress. Each prize consists of a certificate and a SFr. 2,500 grant to make it possible for the winner to participate in the Congress. To be eligible, young authors must submit their paper to Congress Director Chen Jun by 1st February 2008.

At the Congress, a total of 16 *Best Poster Papers Awards* (1988) are sponsored by ISPRS. A jury for each of the eight ISPRS Commissions observes the poster presentations and selects the two best Poster Papers from the Commission. The award consists of a gift and certificate from the Congress Director.

At the Congress, the *CATCON Prizes* (1996), a software Computer Assisted Teaching Contest, will be organized by ISPRS Technical Commission VI and funded by The ISPRS Foundation. The main objective of the contest is to promote the development and dissemination of good, user-friendly software packages, www contents and data sets for computer assisted teaching, which preferably are non-commercial and free. Typically the prizes consist of a Gold Award (SFr. 3,000), Silver Award (SFr. 2,500), and Bronze Award (SFr. 1,500) and a certificate.

FINANCES

ISPRS is supported financially from four main sources:

1. Subscriptions

Each Ordinary and Associate Member organization remits annual subscription fees to the Treasurer of ISPRS on a scale broadly related to the number of photogrammetric, remote sensing and spatial information specialists which it represents.

Ordinary Membership is arranged in categories as follows:

Number of Active Specialists	Category	Annual Subscription (Swiss Francs)
Less than 26	1	100
26 - 50	2	200
51 - 150	3	600
151 - 250	4	1000
251 - 400	5	1500
401 - 600	6	2400
601 - 800	7	3200
More than 800	8	4800

Associate Membership is arranged in categories as follows:

Number of Active Specialists	Category	Annual Subscription (Swiss Francs)
Less than 51	1	100
51 - 250	2	600
251 - 600	3	1200
More than 600	4	2400

Member countries propose their own category and may at any time increase their category but may not lower their category without previous approval by the General Assembly.

The annual subscription fee paid by a **Regional Member** shall be Swf 100.

Sustaining Members shall pay an annual subscription fee according to the number of employees in their organisations defined by the four categories as follows:

Category	Fee
A more than 750 employees	2,800 Swiss Francs
B 101 - 750 employees	1,400 Swiss Francs
C 26 - 100 employees	700 Swiss Francs
D 1 - 25 employees	350 Swiss Francs
E Educational Institutes	250 Swiss Francs

2. The Congress is financed by the Member organization of the host country from registration and exhibition fees.

3. Each Technical Commission is financed by its sponsoring Member.

4. A service fee is assessed to the Congress and Symposia for administrative support.

The financial affairs of the Society are monitored by a Financial Commission elected by the General Assembly.

Ordinary Members (90) & Associate Members (9)

ISPRS Ordinary and Associate Members are scientific and/or technical organizations representing geographic areas. Country names with category are listed for the sake of brevity and common usage, and are not intended to carry political or diplomatic implications. Full addresses of Ordinary and Associate Members are included in the 'Blue Book'.

Ordinary Members

Algeria	(3)
Argentina	(2)
Australia	(5)
Austria	(4)
Azerbaijan	(1)
Bangladesh	(1)
Belgium	(4)
Benin	(1)
Botswana	(1)
Brazil	(5)
Brunei Darussalam	(1)
Bulgaria	(2)
Burkina Faso	(1)
Cameroon	(1)
Canada	(8)
Chile	(1)
China	(7)
China Taipei	(4)
Colombia	(2)
Cote D'Ivoire	(1)
Croatia	(2)
Cuba	(1)
Cyprus	(2)
Czech Republic	(2)
Denmark	(3)
Egypt	(2)
El Salvador	(3)
Ethiopia	(1)
Finland	(5)
France	(6)
Germany	(8)
Ghana	(1)
Greece	(2)
Hong Kong	(2)
Hungary	(3)
India	(6)
Indonesia	(1)
Iran	(1)
Iraq	(1)
Ireland	(2)
Israel	(3)
Italy	(6)
Japan	(7)
Jordan	(4)
Kenya	(1)
Korea	(2)
Kuwait	(2)
Latvia	(1)
Lebanon	(1)
Libya	(1)
Lithuania	(1)
Malawi	(2)
Malaysia	(2)
Mexico	(2)
Mongolia	(1)
Morocco	(3)
Myanmar	(2)
Namibia	(1)
Nepal	(1)
Netherlands	(4)

New Zealand	(2)
Nigeria	(1)
Norway	(3)
Pakistan	(1)
Peru	(1)
Philippines	(1)
Poland	(3)
Qatar	(1)
Romania	(2)
Russian Federation	(8)
Saudi Arabia	(4)
Slovak Republic	(2)
Slovenia	(1)
South Africa	(5)
Spain	(6)
Sri Lanka	(3)
Suriname	(2)
Sweden	(5)
Switzerland	(4)
Syria	(3)
Tanzania	(1)
Thailand	(2)
Turkey	(4)
Ukraine	(3)
United Arab Emirates	(1)
United Kingdom	(6)
Uruguay	(1)
United States	(8)
Venezuela	(2)
Vietnam	(1)

Associate Members

China Taipei	Chinese-Taipei Geoinformatics Society
Iran	Iranian Remote Sensing Center
Italy	DIAR - Politecnico di Milano
Korea	Korean Society for Geo-Spatial Info Systems
Korea	Korean Society of Remote Sensing
Morocco	Centre Royal de Teledetection Spatiale
Pakistan	Survey of Pakistan
Russia	Society for Contributing Development of Photogrammetry & Remote Sensing
Thailand	National Research Council of Thailand

Regional Members (12)

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- 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;
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- 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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- 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.

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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 SENSORS 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

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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.

INTER-COMMISSION (IC) WG I/V: AUTONOMOUS VEHICLE NAVIGATION

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IC WG I/V Terms of Reference

- Design and development of autonomous vehicle 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.

COMMISSION II - THEORY AND CONCEPTS OF SPATIO-TEMPORAL DATA HANDLING AND INFORMATION

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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
- 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

WG II/1: SPATIO-TEMPORAL MODELING

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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)

WG II/5: COMMUNICATION AND VISUALIZATION OF SPATIAL DATA

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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

WG II/6: SYSTEM INTEGRATION AND INTEROPERABILITY

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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”.

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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

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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

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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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WG III/5 Terms of Reference

- To develop, implement, and test models and strategies for automated 2 1/2 D and 3 D 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.

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IC WG III/V Terms of Reference

- 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 – GEO-DATABASES 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

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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

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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

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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

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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

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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 LASERSCANNING

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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

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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

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IC WG V/I 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

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

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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

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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.

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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

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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

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- 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.

WGVII/1: FUNDAMENTAL PHYSICS AND MODELLING

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WGVII/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.

WGVII/2: INFORMATION EXTRACTION FROM SAR DATA

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WGVII/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

Chair

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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

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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

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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 co-operation 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 co-operation 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

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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

Chair

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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

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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

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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

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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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Set up by Council under Bylaw VII for the period 2004 – 2008 to co-ordinate ISPRS input to standards organisations.

Terms of Reference

- Co-ordinate WG input to standards organisations such as ISO, OGC and to regional and national standards organisations and fora.
- Encourage Working Group liaison with standards organisations.
- Propose persons to serve as Liaison on ISO committees and monitor activities of ISP committees related to geospatial information.
- Propose workshops or sessions at ISPRS meetings.
- Report to Council annually on standards activities.

INTERNATIONAL COMMITTEE FOR ARCHITECTURAL PHOTOGRAMMETRY (CIPA)

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Objectives and Activities

The International Committee for Architectural Photogrammetry (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.

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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.

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

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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.

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.

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The IPAC was established to support Council in addressing important issues relevant to Society affairs 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.

Terms of Reference

- Identify, coordinate and prioritize policy issues with the ISPRS Council for analysis and public dialog.
- Provide the ISPRS Council with early warning of relevant international policy issues and recommend spokespersons.
- Provide policy advice for and with the ISPRS Council to international organizations in which ISPRS is represented (COPUOS, ICSU, CEOS, UATI, etc.).
- Collaborate with the ISPRS Council to provide policy advice upon requests of 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.

IPAC Membership

The IPAC Chair is appointed by Council, with Members selected by the Chair with ratification by Council. Members are selected based on their knowledge of international and national policy and legislative activities related to the mission and objectives of the Society. ISAC Members and activity shall be periodically reviewed by Council and adjusted in collaboration with the Chair. To ensure proper representation, the IPAC Chair will strive to maintain active participation representing both public, private and academic sector perspectives as well as global/regional perspectives on policy issues relevant to the Society.

Dates and Locations of Council Meetings and Symposia

2004

Sep 30-Oct 1	Istanbul	Council Meeting
Nov 21-24	Chiang Mai	Council & Joint Meeting

2005

May 12-15	Zurich	Council Meeting
Sep 30-Oct 4	Enschede	Council & Joint Meeting

2006

Apr 30-May 2	Reno	Council Meeting
May 8-11	Enschede	Comm VII Symposium
June 27-30	Tokyo	Comm VI Symposium
July 3-6	Paris	Comm I Symposium
July 5	Paris	Council Meeting
July 12-14	Vienna	Comm II Symposium
Sep 19-22	Bonn	Comm III Symposium
Sep 25-27	Dressden	Comm V Symposium
Sep 27-30	Goa	Comm IV Symposium
Oct 1-4	Goa	Council & Joint Meeting
Cancelled	Haifa	Comm VIII Symposium

2007

Mar 3-5	Vienna	Council Meeting
Aug 20-24	Beijing	Council & Joint Meeting

2008

Spring 2008		Council & Joint Meeting
July 2008	China	Council Meeting
July 3-11	Beijing	Congress

THE XXI. CONGRESS OF THE INTERNATIONAL SOCIETY for PHOTOGRAMMETRY AND REMOTE SENSING

‘SILK ROAD FOR INFORMATION FROM IMAGERY’

**The Beijing International Convention Center (BICC), Beijing
3 – 11 July 2008**

PRE-CONGRESS SCHEDULE

Call for papers	January 2007
Deadline for Abstracts	20 October 2007
Deadline for Full Paper (Technical Commission III only) *	20 November 2007
Deadline for Full Paper	30 April 2008
Preliminary Programme	May 2008

* The ISPRS Technical Commission III will undertake a peer review process for all of its oral technical sessions, as well as WgS-PS: WG III/1~5, ThS-7 and ThS-22. Authors wishing to present papers in those sessions should submit their full paper by the deadline of 20 November 2007.

For more information please contact:

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APPENDIX B

LEGISLATIVE DOCUMENTS

INTERNATIONAL SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING



information from imagery

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

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;
- promoting ISPRS activities;
- 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.

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. Only 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 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.
3. The Council shall be answerable to the General Assembly for management of Society affairs and shall guide the conduct of the General Assembly.
4. The Council shall assist the President to coordinate and guide the activities of the Technical Commissions.
5. Between meetings of the General Assembly the Council may consult Members by correspondence or otherwise.
6. 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 shall be conducted by the Commission Board consisting of:
 - The Commission President
 - The Commission Secretary/ies
 - The Working Group Chairpersons
 - The Commission Rapporteurs

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 19th Congress, July 2000, at Amsterdam, The Netherlands.

Statutes amended by the General Assembly of the 20th Congress, July 2004, at Istanbul, Turkey.

President: John C. Trinder (2000-2004)

Secretary General: Ian J. Dowman (2000-2004)

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 of 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 excepts for Council meetings. They shall not be required to pay registration fees for any Society function.

* Bylaw VI/5 will become definite after the February 21st 2007.

BYLAW VII - Organization and Administration

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 CongressShould 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;
 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. 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.
6. 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 prepare the Congress and the progress therein. The 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.
7. 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.
8. 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.
9. 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.
10. 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 Spatio-temporal Data Handling and Information

- 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 should 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
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, 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 favorable votes. A decision to admit 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.

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 20th Congress, July 2004, at Istanbul, Turkey.

President: John C. Trinder (2000-2004)
Secretary General: Ian J. Dowman (2000-2004)

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.

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 official languages of ISPRS. They are subject to approval by the Council.
4. The Terms of Reference and background shall be communicated to ISPRS members through official documents of the Society (Silver Book, WWW Page, and ISPRS Highlights).
5. 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.
6. 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.
7. The funding and preparation of ISPRS Awards shall be provided by the sponsoring organization and delivered to the Congress Director after the Awardee(s) have been identified.
8. Each new ISPRS Award shall be granted for a specific purpose, which shall not overlap the purpose of another ISPRS Award.
9. Presentations of ISPRS Awards shall be made at an appropriate event, preferably a plenary session or General Assembly of the Congress.
10. The recipient of an ISPRS quadrennial Award shall receive that award only once.
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.

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 signalized 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 signalized 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 GINO CASSINIS AWARD

In 1999, the Italian Society for Surveying and Photogrammetry (SIFET) proposed to honour the work of Professor Gino Cassinis in ISPRS in teaching and research in photogrammetry for 40 years, and provides ISPRS with further opportunities to recognise the major scientific achievements of scientists working on ISPRS activities. All ISPRS Members are encouraged to consider appropriate candidates for this new Award who have significantly enhanced the mathematical and statistical foundations of the photogrammetry, remote sensing or spatial information sciences in the 4 years preceding the Congress.

The scientific work of Professor Gino Cassinis enhanced the mathematical and statistical foundations of the surveying and mapping disciplines. He served as President of ISPRS from 1934 - 1938, Congress Director of the 5th ISPRS Congress (Rome, 1938), and as President of ISPRS Technical Commissions for four terms. Furthermore he

was elected as an Honorary Member of ISPRS. The Gino Cassinis Award, valued at Swf 2,500, was offered for the first time) in Amsterdam in July 2000

Regulations

Article 1

The Award shall be known as The Gino Cassinis Award and shall normally be granted at each Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS).

Article 2

The Gino Cassinis 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 mathematical and statistical foundations of the 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 candidates work.

Article 4

Nominations for The Gino Cassinis 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 Gino Cassinis 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 corner-stone 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.

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.

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 m².
- i. Exhibit space of about 1000 m² 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. 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.
11. 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.
12. 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.
13. The proceedings of each Commission Symposium shall be published in the prescribed format as a Part of the Volume of *International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*.

14. 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.
15. 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*.
16. Furthermore, the TCPs are responsible for conformance by Working Group Chairpersons to the "Guidelines for Conducting a Working Group".
17. 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.
18. 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

A	more than 750 employees	2,800 Swiss Francs
B	101 - 750 employees	1,400 Swiss Francs
C	26 - 100 employees	700 Swiss Francs
D	1 - 25 employees	350 Swiss Francs
E	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 AWARDS NOMINATION DEADLINES

Brock Gold Medal Award: to the Secretary General by 1st October 2007.
The Otto von Gruber Award: to the President by 1st January 2008.
The Schwidofsky Medal: to the President by 1st January 2008.
The Willem Schermerhorn Award: to the President by 1st January 2008.
The Samuel Gamble Award: to the Secretary General by 1st January 2008.
The Eduard Dolezal Award: to the President by 1st December 2007.
The U.V. Helava Award: will not require a formal submission.
The Gino Cassinis Award: to the President by 1st January 2008.
The Wang Zhizhuo Award: to the President by 1st January 2008.
The President's Honorary Citation: to the President by TCPs by 1st January 2008.
Best Papers submitted by Young Authors, to the Congress Director by 1st February 2008.

ISPRS RESOLUTION PROCESS FOR 2008 CONGRESS

The process for the finalization of the Resolutions at the Beijing Congress in 2008 requires Commissions to prepare their Resolutions in advance so that there is adequate checking by Council and International Science Advisory Committee (ISAC). Each Technical Commission must appoint its own resolutions committee comprising 3 to 5 people. There will be 8 such committees, coded as CommxRC, where 'x' refers to the Commission number. The draft resolutions will be forwarded to the 1st Vice President according to the timetable below. 1st VP will appoint a CongressRC, which will review, revise and approve the resolutions received from the CommxRCs before presenting them to the General Assembly.

ISAC will be asked to review the draft resolutions before the Congress. ISAC will make a broad brush review to assure that the Resolutions recommend topics for study by the next ISPRS Commissions and their WGs that: a) cover the full scope of the ISPRS mission, b) are of interest to some or all sectors of the ISPRS Membership and, c) will ensure that ISPRS is in the forefront in the S&T of the photogrammetric, remote sensing and spatial information sciences. At the Congress it is expected that all officers will be in a position to constructively fine-tune the Resolutions quickly and efficiently. Council asks for your support in this important task for the Society.

The number and length of resolutions presented to the General Assembly have tended to increase at recent Congresses. The areas of Technical Commissions are given in Bylaw XIII.2. The primary purpose of the resolutions is to define new emerging areas of study that are not covered by the current Terms of Reference in the Bylaws, or to recommend revised modes of operations of the Technical Commissions eg, cooperating with related organizations that ISPRS is not with at present. It is not envisaged that the resolutions should simply recommend continuation of certain studies, to undertake studies that are already covered by the Terms of Reference, or to reinforce items already covered by Bylaw XIII.2. Given that the Technical Commissions have a finite capability to undertake new studies in a 4 year period, the number of new activities should be appropriate to the workload that can be undertaken by the Commissions. Council is of the view that each Commission should present a small number of resolutions to the Congress in 2008, and that not all Working Groups will need to prepare a resolution. As a guide, it is suggested that each Commission should prepare less than 5 resolutions. As well, it is recommended that the length of the resolutions, following the statement 'Recommends' (see below) should be no longer than 50 words. Council will review the processes for presenting and approving the resolutions at the General Assembly, so as to limit the time taken.

RESOLUTIONS FORMAT

All Resolutions should have a title (note Roman Commission number followed by a sequential Arabic Resolution number) and three sections (Noting, Recognizing, Recommends) as shown by the following example.

Resolution II.4 Procedures and tools for data integration

The Congress

Noting

- the new sources of data becoming available and the rapidly increasing number of applications for which these data might be used

Recognizing

- that the combination and integration of such data offers new opportunities for solving problems

Recommends (limited to 50 words or less)

- 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.