



GENERAL ASSEMBLIES

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**Report of ISPRS President Chen Jun to the General Assembly for 2012-2016
Report of ISPRS Secretary General Christian Heipke to the General Assembly for
2012-2016**

**Report of ISPRS Treasurer Jon Mills to the General Assembly for 2012-2016
Report of ISPRS Financial Commission Chair Marie-José Lefevre-Fonollosa to the
General Assembly for 2012-2016**

**Report of the Editors-in-Chief of the ISPRS Journal of Photogrammetry and Remote
Sensing, Derek Lichti, Qihao Weng**

**Report of the Editor-in-chief of the ISPRS International Journal of Geo-Information,
Wolfgang Kainz**

Report of ISPRS Book Series Editor, Zhilin Li

Report of ISPRS Webmaster, Markus English

Report of TIF (The ISPRS Foundation) Chair, Board of Trustees, Dieter Fritsch

**Report of IPAC (International Scientific Advisory Committee) by Chair, Gunter
Schreier**

Report of ISAC (International Scientific Advisory Committee) by Chair, Ian Dowman

Report of I2AC (ISPRS Industry Advisory Committee) by Chair, Franz Leberl

Report on ISPRS Regional Affairs in Africa by Hussein Farah

Report on ISPRS Regional Affairs in South-East Asia by Nguyen Dinh Duong

Report on ISPRS Regional Affairs in Latin-American by Mario Hernandez

**Report of ICORSE (International Committee on Remote Sensing of Environment)
Chair, Lawrence Friedl**

**Report of CIPA (International Committee for Documentation of Cultural Heritage)
President, Andreas Georgopoulos**

Report of the Student Consortium Chair, Urša Kanjir

Ordinary Member Delegates and Advisers to ISPRS General Assembly

XXIII ISPRS Congress, Prague 2016

Country	Cat.	Delegate	Adviser(s)
Algeria	3	Kesraoui Arezki	Benahmed Daho Ali
Argentina	2		
Australia	5	John Trinder	
Austria	4	Julius Ernst	Prof. Norbert Pfeifer
Azerbaijan	2	Magsad Gojamanov	Chingiz Gurbanov Camal Camalov
Bangladesh	1		
Belgium	4	Eric Bayers	
Botswana	1		
Brazil	5		
Brunei Darussalam	1		
Bulgaria	2		
Burkina Faso	1		
Cameroon	1		
Canada	8	Songian Li	Costas Armenakis Ahmed Shaker
Chile	1	Col. José Riquelme Muñoz	Cpt. Juan Pablo Palacios Cergna
China	8	Zhang Jixian	Tnag Xinming Jiang Jie
China Taipei	4	Peter T. Y. Shih	Yi-Hsing Tseng Fuan Tsai
Colombia	2		
Cote D'Ivoire	1		
Croatia	2		
Cuba	1	Pedro Martínez Fernández	
Cyprus	2	Georgia Papathoma Economidou	Dimitrios Skarlatos
Czech Republic	2	Karel Vach	Václav Šafař Vladimír Kovařík
Denmark	3	John Kamper	Andrew Flatman Eskil Kjærshøj Nielsen
Egypt	2		
El Salvador	3		
Ethiopia	1		
Finland	3	Dr. Petri Rönholm	Dr. Ville Lehtola M.Sc. Arttu Julin
France	6	Marc Pierrot Deseilligny	Nicolas Paparoditis Clement Mallet Guests : Inez Burger, Eric Labergerie
Germany	8	Uwe Stilla	Hans-Gerd Maas Monika Sester
Ghana	1		
Greece	2	Prof. Andreas Georgopoulos	Prof. Petros Patias

Hong Kong	2	John Shi Wenzhong	
Hungary	3	Arpad Barsi	
India	6	Shailesh Nayak	VK Dadhwal PLN Raju
Indonesia	1		
Iran	3		
Iraq	1		
Ireland	2	-	
Israel	3	Ammatzia Peled	
Italy	6	Giuseppina Vacca	Maria Antonia Brovelli Francesco Pirotti
Japan	7	Hirofumi CHIKATSU	Shunji Murai Takashi Fuse
Jordan	4	Brigadier General Dr. Eng. Awni Kasawneh	Eng. Nivin Hasan Jehad Hijazi
Kenya	1		
Korea	2		
Kuwait	2		
Latvia	1		
Libya	1		
Lithuania	1		
Malawi	2		
Malaysia	2	nn	
Mexico	2		
Mongolia	1	M. Saandar	Ochirhyuag
Morocco	3	Elgaaidi	
Myanmar	2	Kyaw Sann Oo	
Namibia	1		
Nepal	1	Er. Laxmi Thapa	
Netherlands	4	George Vosselman	Klaas van der Hoek Sisi Zlatanova
New Zealand	2		
Nigeria	1		
Norway	3	Ivar Maalen-Johansen	
Pakistan	1	Mehar Ali	Imtiaz Hassan
Peru	1		
Philippines	1	Gay Jane Perez	Josefino Comiso
Poland	3	Aleksandra Bujakiewicz	Krystian Pyka Zdzisław Kurczyński
Portugal	2		
Qatar	1		
Romania	2	Marin Alnitei	Dragos Badea
Russian Federation	8	Denis Dudnikov	

Saudi Arabia	4	Alotaibi Sattam	Alobeid Abdalla Almotairi Eid
Senegal	1		
Slovak Republic	2	Marek Fraštia	Peter Barták Marko Paško
Slovenia	1	Mojca Kosmatin Fras	Dejan Grigillo Anka Lisec
South Africa	3	Julian Smit	Patricia Duncan
Spain	6	Antonio Arozarena Villar	Guillermo Villa Alcázar Eduardo Núñez Maderal
Sri Lanka	3	P. Sangakkara Reynaldo R Aodrador	K.R. Sarath
Sweden	5	Sara Wahlund	Sara Wimanés
Switzerland	4	Francois Gervaix	Emmanuel Baltsavias Prof. Konrad Schindler
Syria	3		
Tanzania	1		
Thailand	2	Chaisit Preeyanupab	Soontorn Romsaiyod
Turkey	4	Abdullah Okul	Ferruh Yildiz Altan Yilmaz
Ukraine	3	Khrystyna Burshtynska	
United Arab Emirates	6	Ahmed Murad	Nazmi Saleous Guest: Abdulla Rafia
United Kingdom	6	Ian Dowman	Stuart Granshaw
Uruguay	1		
USA	8	Charles Toth	Lynn E. Usery Michael Hauck
Uzbekistan	2		
Venezuela	2		
Vietnam	1	Nguyen Dinh Duong	
Zimbabwe	1		

Delegates and Advisers to ISPRS General Assembly

Associate Member Representatives to ISPRS General Assembly

XXIII ISPRS Congress, Prague 2016

Country	Associate Member Name	Cat.	Representative
Azerbaijan	State Comittee for Land and Cartography, State Aerogeodesy Corporation	2	
Chile	Servicio Aerofotogramétrico – Fuerza Aérea de Chile	2	Mauricio Sottolichio Oscar Hevia
China Taipei	Chinese-Taipei Geoinformatics Society	1	
Colombia	Agustin Codazzi Geographic Institute - Research and	1	

Development Center in Geographic Information			
Iran	Iran Space Center	1	Farrokh Pourshakouri
Italy	Associazione Italiana di Telerilevamento – AIT	3	Francesco Pirrotti
Korea	Korean Society of Remote Sensing	1	
Korea	Korean Society for Geo-Spatial Info Systems	1	
Morocco	Centre Royal de Teledetection Spatiale	1	
Pakistan	Pakistan Space & Upper Atmosphere Research Commission	1	
Peru	Directorate of Hydrography and Navigation	1	
Russian Federation	Society for Contributing Development of Photogrammetry and Remote Sensing	2	Zheltova
Thailand	Geo-Informatics and Space Technology Development Agency	1	

**Regional Member Representatives to ISPRS General Assembly
XXIII ISPRS Congress, Prague 2016**

RgM	Regional Member Name	Representative
AARS	Asian Association on Remote Sensing	Kohei Cho
AARSE	AARSE - African Association of Remote Sensing of the Environment	
AGILE	Association of Geographic Information Laboratories in Europe	
ARCSSTE-E	African Regional Centre for Space Science and Technology Education – English	
CRTEAN	Centre Régional de Télédétection des États de l’Afrique du Nord (CRTEAN)	
CSSTEAP	Centre for Space Science and Technology Education in Asia and the Pacific	
EARSeL	European Association of Remote Sensing Laboratories	
EIS Africa	EIS Africa	
EuroSDR	EuroSDR	
OACT	African Association of Cartography & Remote Sensing (OACT)	
PAIGH	Cartography Commission, Pan American Institute for Geography and History	José Riquelme Munoz Juan Pablo Palacios Cergna
RCMRD	Regional Centre for Mapping of Resources for Development	Hussein Farah
RECTAS	Regional Centre for Training in Aerospace Surveys (RECTAS)	

AGENDA OF ISPRS GENERAL ASSEMBLIES

XXIII ISPRS Congress, Prague 2016

GA I: Tuesday July 12, 09.30 - 16.00

01. Opening Address
Introduction of Guests
02. Certification of Delegate Credentials
Confirmation of Voting Rights
03. Approval of Agenda
04. Admission of New Members and Changes of Category Since Last Congress
05. Approval of New Fellows
06. Ratification of Council Agreements
07. Member Proposals to Host Commissions 2016 - 2020
 - 7.1.1 Com I – CIG, Canada
 - 7.1.2 Com I – DGPF, Germany
 - 7.2.1 Com II – ASPRS, USA
 - 7.2.2 Com II – SIFET, Italy
 - 7.3 Com III – CSSMG, China
 - 7.4 Com IV – GIN, Netherlands
 - 7.5.1 Com V – CTSPRS, Chinese Taipei
 - 7.5.2 Com V – ISRS, India
08. Member Proposals to Host ISPRS Congress in 2020
 - 8.1 Candidate 1 – UAE
 - 8.2 Candidate 2 – France
 - 8.3 Candidate 3 – Canada
09. Report of Council (1)
 - 9.1 Report of the President
 - 9.2 Presentation and adoption of Prague Declaration
10. Proposal of Amendments to the Statutes and Bylaws

GA II: Wednesday July 13, 13.30 - 18.00

11. Roll Call, Election of Members to Host Commissions 2016 - 2020
12. Report from the Regional Representatives
 - 12.1 Africa
 - 12.2 South-East Asia
 - 12.3 Latin America
13. Report of Council (2)
 - 9.3 Report of the 1st Vice President
 - 13.1 Report of the Secretary General
 - 13.2 Report of the Treasurer
14. Report of Financial Commission
 - 32.1 IPAC - International Policy Advisory Committee
18. Results of Commission Elections
15. Nominations for Council
16. Nominations for Financial Commission 2016 - 2020
17. Nominations for the Fellows Committee

19. Discussion of Amendments to Statutes and Bylaws
20. Report on ISPRS Journals
21. Report on Book Series
22. Report on Website
23. Item amended to 9.2

GA III: Saturday July 16, 13.30 - 18.00

24. Roll Call, Election of Member to Host the ISPRS Congress in 2020
25. Election of Council
 - 25.4 Election of Second Vice President
 - 25.5 Election of Treasurer
 - 25.1 Election of President
 - 25.2 Election of Secretary General
 - 25.3 Election/Appointment of First Vice President
26. Ratification of Congress Director
27. Election of Chair and Members of the Financial Commission and Members of the Fellows Committee
28. Proposal and Ratification of Regional Representatives 2016 - 2020
in parallel to 24 - 28
31. Report on ISPRS Foundation
32. Reports from ISPRS Committees
 - 32.3 I²AC - International Industry Advisory Committee
 - 32.2 ISAC - International Science Advisory Committee
 - 32.4 ICORSE - International Committee on Remote Sensing of Environment
 - 32.5 CIPA - Heritage Documentation
 - 32.6 Student Consortium
- 04b. Admission of New Members and Changes of Category Since Last Congress
29. Presentation of Resolutions
30. Decision on Amendments to Statutes and Bylaws

GA IV: Monday July 18, 13.30 - 18.00

33. Congress Director's Report
34. Approval of Resolutions for 2016 - 2020
Short announcement of Japan
35. Date of the Next General Assembly
 - July 12-19
 - June 28 - July 5
 - Aug 30 - Sept 6
36. Any Other Business
37. Close of General Assembly

Decisions of the General Assembly

The General Assembly:

Approved the Agenda

The General Assembly:

Approved the following new members which had been admitted since the Melbourne Congress:

3 new Ordinary Members:

- Baku State University, Azerbaijan, category 2
- Côte d'Ivoire Géomatique, Ivory Coast, category 1
- Philippine Geosciences and Remote Sensing Society, Philippines, category 1

2 new Associate Members:

- State Committee for Land and Cartography, State Aero-geodesy Corporation, Azerbaijan, category 2
- Servicio Aerofotogramétrico del General Juan Soler Manfredini de la Fuerza Aérea de Chile, category 2

1 new Regional Member:

- AGILE - Association of Geographic Information Laboratories in Europe, Netherlands

6 new Sustaining Members:

- NASTEC - Nagaland Science & Technology Council, India
- BASIR - Remote Sensing Institute, Iran
- VisionMap, Israel
- Foxel SA, Switzerland
- MOMRA - Ministry of Municipal and Rural Affairs, Saudi Arabia
- Teledyne, Canada

The General Assembly:

Approved the following changes in membership category since the Melbourne Congress:

2 Sustaining Members:

- VisionMap, Israel, B to C
- Vietnam Association of Geodesy, Cartography and Remote Sensing, Vietnam, B to E

The General Assembly:

Approved the following changes in membership during Congress:

1 New Ordinary Member:

- National Survey Authority, Ministry of Defence, Oman, category 1

3 Ordinary Member category changes:

- Remote Sensing Center, UAE, from category 1 to 6
- Israeli Society of Photogrammetry & Remote Sensing, from category 3 to 2
- Spanish Society of Cartography, Photogrammetry & Remote Sensing, from category 6 to 3

1 Takeover of Membership:

- Belgium Ordinary Member organisation changed from National Geographical Institute to VITO NV

3 new Associate Members:

- Canadian Remote Sensing Society, Category 2
- Myanmar Peacebuilding and Dialogue Center, Category 1
- Centre de Cartographie et de Télédétection (CCT) Cote D'Ivoire, category 1

1 new Sustaining Member:

- Good Shepherd Engineering, Palestine, Category D

The General Assembly:

Approved the appointment of the following Fellows:

- Alain Baudoin (France)
- Jiang Jie (China)
- Franz Leberl (Austria)
- Petros Patias (Greece)
- Ammatzia Peled (Israel)

The General Assembly:

Ratified changes to MoUs and Contracts:

MOUs – new agreements with 3 professional organisations:

- OSGeo -Open Source Geospatial Foundation
- EuroSDR
- AGILE - Association for Geographic Information Laboratories in Europe

Seven contracts have been signed:

- MDPI, Amendment I to the Journal Publishing Agreement from 8 August 2011
- MDPI, Amendment II to the Journal Publishing Agreement from 8 August 2011
- Elsevier BV, Journal Publishing Agreement
- Copernicus GmbH, Publishing Agreement for Archives and Annals
- Copernicus GmbH, Contract for Credit Card Payment System
- Taylor and Francis, Memorandum of Agreement for ISPRS Book Series Publications
- TIB Archive and Distribution Agreement

The General Assembly:

Elected the following Members to host Technical Commissions:

TC1: Germany/Brazil

TC2: Italy/Japan

TC3: China/Canada

TC4: The Netherlands/Canada

TC5: India

The General Assembly:

Ratified the appointment of:

Nicolas Paparoditis (France) as the Congress Director

Chen Jun (China) as First Vice President

The General Assembly:

Elected the following Members of Council:

Christian Heipke (Germany) as President

Lena Halounová (Czech Republic) as Secretary General

Charles Toth (USA) as Second Vice President

Songnian Li (Canada) as Treasurer

The General Assembly:

Elected as Members of the Financial Commission:

Jon Mills (UK)

Manos Baltasvias (Switzerland)

George Vosselman (The Netherlands)

The General Assembly:

Elected as members of the Fellows Committee:

Marie-José Lefèvre (France)

Eberhard Gülch (Germany)

The General Assembly:

Elected the following as Regional Representative to Council:

Africa: Hussein Farah

East Asia: Lal Samarakoon

Latin-America: Mario Hernandez

The General Assembly:

Ratified the amendments to the Status and Bylaws

The General Assembly:

Approved of the Resolutions of the Congress

MINUTES OF ISPRS GENERAL ASSEMBLIES

GA I - Tuesday, July 12, 9:30 - 16:00

1. Opening Address, Introduction of Invited Persons

ISPRS President Chen Jun opened the meeting at 9:30.am. Following his opening speech he introduced the invited guests:

- Chris Rizos - President - Joint Board of Geospatial Information Societies (JBGIS)
- Chryssy Alex. Potsiou - President, International Federation of Surveyors (FIG)
- Menno-Jan Kraak - President, International Cartographic Association (ICA)
- Dave Lovell, President-elect, Global Spatial Data Infrastructure Association (GSDI)
- Ron Lofton - President, International Map Industry Association (IMIA)
- Ted Florence - incoming President, IMIA, International Map Industry Association
- Barbara Ryan, Secretariat Director of the intergovernmental Group on Earth Observations (GEO)

Honorary Members and other former Council Members were also present as well as delegates or advisors.

2. Certification of Delegate Credentials, Explanation and Confirmation of Voting Rights

Delegate credentials were confirmed during GA registration. SG explained the voting rights.

3. Approval of Agenda

The agenda was approved.

4. Membership Development

New Ordinary Members

The following three Ordinary Members have been admitted since the Melbourne Congress:

ID	Member Name	Country	Cat.	Membership Date
10006	Baku State University	Azerbaijan	2	26.10.2012
10113	Côte d'Ivoire Géomatique	Ivory Coast	1	24.06.2015
10072	Philippine Geosciences and Remote Sensing Society	Philippines	1	10.09.2015

Discontinued Ordinary Members

The following two Ordinary Members have cancelled membership since the Melbourne Congress:

ID	Member Name	Country	Cat.	Cancellation Date
10072	Philippine Society of P & RS	Philippines	1	10.09.2015
10112	Chamber of authorized Architects and Engineers (of FYROM)	Macedonia	2	07.12.2015

Change of Ordinary Member Category

The following Ordinary Member requested a change of category since the Melbourne Congress:

ID	Member Name	Category	Date of Request
10095	Remote Sensing Center, UAE	1 to 6	23.01.2015 (request granted by Council)

New Associate Member

Two Associate Members have been admitted since the Melbourne Congress, one additional application was received shortly before the Prague Congress:

ID	Member Name	Country	Cat.	Membership Date
20017	State Committee for Land and Cartography, State Aero-geodesy Corporation	Azerbaijan	2	12.12.2013
20018	Servicio Aerofotogramétrico del General Juan Soler Manfredini de la Fuerza Aérea de Chile	Chile	2	21.03.2016

New Regional Member

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

ID	Member Name	Membership Date
30017	AGILE - Association of Geographic Information Laboratories in Europe, Netherlands	23.09.2014

New Sustaining Members

The following six Sustaining Members have been admitted since the Melbourne Congress:

ID	Name	Country	Cat.	Membership Date
40123	NASTEC - Nagaland Science & Technology Council	India	D	22.10.2013
40124	BASIR - Remote Sensing Institute	Iran	E	22.10.2013
40125	VisionMap	Israel	B	05.05.2014
40126	Foxel SA	Switzerland	D	15.01.2015
40127	MOMRA - Ministry of Municipal and Rural Affairs	Saudia Arabia	C	24.02.2015

Discontinued Sustaining Members

The following 26 Sustaining Members have cancelled membership since the Melbourne Congress or have

been expelled by Council for lack of membership payment:

ID	Name	Country	Cat.	Cancellation Date
40069	ScanEx Research and Development Center	Russia	C	06.10.2012
40086	ITU Centre for Satellite Communications and Remote Sensing	Turkey	E	20.12.2012
40071	Mescioglu Engineering	Turkey	D	20.12.2012
40088	INTA SpaceTurk	Turkey	C	20.12.2012
40080	PROSIGCONSULT	Romania	D	24.01.2013
40024	SOVINFORMSPUTNIK	Russia	C	11.03.2013
40055	e-HD.com	Korea	D	03.06.2013
40083	Selcuk University Division of Photogrammetry	Turkey	E	05.06.2013

40063	Istanbul Technical University, Div. of Photogrammetry	Turkey	E	05.06.2013
40026	COWI A/S	Denmark	B	31.12.2013
40106	Geo:Connexion Ltd	UK	D	04.03.2014
40056	Seagate	Nepal	D	17.12.2014
40115	Gatewing NV	Belgium	D	11.02.2015
40118	Silver Data Spatial-GIS	China	B	11.02.2015
40054	INFOMAP Novi Grad d.o.o.	Bosnia Herzegovina	D	16.04.2015
40103	SENSON LTD	Georgia	D	16.04.2015
40105	Virtual Geomatics	USA	D	16.04.2015
40077	Global Scan Technologies	UAE	D	16.04.2015
40075	EMI Group Information Technologies Inc.	Turkey	C	09.06.2015
40101	Municipality of Istanbul-Mapping Department	Turkey	B	14.12.2015
40017	FM-International Oy FINNMAP	Finland	C	31.12.2015
40066	ImageSat International NV	Israel	D	10.07.2016
40087	METU, Department of Geodetic and Geographic Information Technol	Turkey	E	10.07.2016
40110	Nnamdi Azikiwe University, Department of Surveying and Geoinformatics	Nigeria	E	10.07.2016
40073	Société des Etudes de Projets et Réalisation des Travaux	Morocco	D	10.07.2016
40043	UCL, Department of Civil, Environmental and Geomatic Engineering	United Kingdom	E	10.07.2016

Change of Sustaining Member Category

The following 2 Sustaining Members requested a change of category since the Melbourne Congress:

ID	Name	Country	Cat.	Date of Request
40125	VisionMap	Israel	B to C	26.01.2015
40114	Vietnam Association of Geodesy, Cartography and Remote Sensing	Vietnam	B to E	20.10.2015

During the Congress the following changes in membership were approved by the General Assembly:

Ordinary Members

New Member:

National Survey Authority, Ministry of Defence, Oman
- Category 1

Category Change:

Israeli Society of Photogrammetry & Remote Sensing (ILSPRS) – from 3 to 2

Spanish Society of Cartography, Photogrammetry & Remote Sensing (SECFT) from 6 to 3

Takeover of Membership:

Belgium Ordinary Member organisation changed from National Geographical Institute to VITO NV

Associate Members**New Member:**

Canadian Remote Sensing Society (CRSS) - Category 2

Myanmar Peacebuilding and Dialogue Center - Category 1

Centre de Cartographie et de Télédétection (CCT) Cote D'Ivoire – Category 1

Sustaining Members**New Member:**

Good Shepherd Engineering, Palestine - Category D

The present membership is as follows:

Category	1	2	3	4	5	6	7	8	A	B	C	D	E	Total
OdM	31	25	14	8	3	5	1	5						92
AsM	11	4	1											16
RgM	15													15
StM									5	7	10	22	14	58

Individual membership

Individual membership was introduced in 2014 and is based on a yearly renewal. For 2016, there were 363 Individual members as of July 12.

- Franz Leberl (Austria)
- Petros Patias (Greece)
- Ammatzia Peled (Israel)

5. Approval of new Fellows

The General Assembly elected the following Fellows:

- Alain Baudoin (France)
- Jiang Jie (China)

6. Ratification of Council Agreements

All of the following agreements and contracts were ratified by the General Assembly according to the documents.

Memoranda of Understanding between ISPRS and other Organisations

Name of Organisation	Date	Remarks
OSGeo -Open Source Geospatial Foundation	October, 2014	Annual review and renewal
EuroSDR	11. Sept. 2013	6 month written termination by either party
AGILE - Association for Geographic Information Laboratories in Europe	05. June, 2014	6 month written termination by either party

ISPRS Contracts and Agreements 2012-16

	Partner	Title	Validity (date of sign.)	Remarks
1	MDPI	Amendment I to the Journal Publishing Agreement from 8 August 2011	01.01.2015 - 31.12.2017 (08.12.2014)	For IJGI
2	MDPI	Amendment II to the Journal Publishing Agreement from 8 August 2011	01.01.2016 - 31.12.2017 (25.11.2015)	For IJGI

3	Elsevier BV	Journal Publishing Agreement	01.01.2016 - 31.12.2020 (25.01.2016)	For IJPRS. Automatic renewal for a four year period unless 18 months written notice given
4	Copernicus GmbH	Agreement	01.01.2015 - 31.12.2018 (10.09.2014)	For Archives and Annals and Service Package D Automatic renewal unless 12 months written notice given
5	Copernicus GmbH	Contract	01.01.2014 - Indefinite (11.11.2013)	For Credit Card Payment System Termination by either party with 3 months written notice
6	Taylor and Francis	Memorandum of Agreement for ISPRS Book Series Publications	02.03.2016 -indefinite (22.03.2016)	Termination by either party with 9 months written notice
7	TIB	Archive and Distribution Agreement	21.05.2014 - 31.12.2014 (21.05.2014)	Automatic renewal unless 12 months written notice given

7. Member Proposals to host Commissions 2016-2021

The following members presented proposals to host the respective commissions:

- 7.1.1** Com I – CIG, Canada, with SASPRS, South Africa, for Vice Presidency
Candidate for TCP: Jonathan Li, Candidate for Vice-TCP: Julian Smit
- 7.1.2** Com I – DGPF, Germany, with Brazilian Society of Cartography for Vice Presidency
Candidate for TCP: Stefan Hinz, Candidate for Vice-TCP: Raul Feitosa
- 7.2.1** Com II – ASPRS, USA, with Geo-Information Netherlands for Vice Presidency
Candidate for TCP: Jie Shan, Candidate for Vice-TCP: Sander Oude Elberink
- 7.2.2** Com II – SIFET, Italy, with JSPRS, Japan, for Vice Presidency
Candidate for TCP: Fabio Remondino, Candidate for Vice-TCP: Takashi Fuse
- 7.3** Com III – CSSMG, China, with CIG, Canada, for Vice Presidency
Candidate for TCP: Jiang Jie, Candidate for Vice-TCP: Ahmed Shaker
- 7.4** Com IV – GIN, Netherlands, with CIG, Canada, for Vice Presidency
Candidate for TCP: Sisi Zlatanova, Candidate for Vice-TCP: Suzana Dragicevic
- 7.5.1** Com V – CTSPRS, Chinese Taipei with ASPRS, USA, for Vice Presidency

Candidate for TCP: Fuan Tsai, Candidate for Vice-TCP: Rakesh Malhotra

7.5.2 Com V – ISRS, India

Candidate for TCP: A. Senth Kumar, Candidate for Vice-TCP: P.L.N. Raju

8. Member Proposals to host ISPRS Congress in 2020

The following proposals were presented:

- 8.1** Candidate 1 – United Arab Emirates - Dubai
Candidate Congress Director: Hussein M. Abdulmuttalib - Dubai Municipality
- 8.2** Candidate 2 – France - Nice
Candidate Congress Director: Nicolas Paparoditis - Institut national de l'information géographique et forestière (IGN)
- 8.3** Candidate 3 – Canada - Quebec
Candidate Congress Director: Bernier Monique, Institut national de la recherche scientifique

9. Report of Council

9.1 President's Report

Chen Jun reported on the challenges, achievements and events of the last four years.

9.2 Presentation of Prague Declaration

Following the presentation of the Prague Declaration, an intensive discussion took place before the paper was adopted with some changes.

The Swiss delegate, Armin Grün, and the Indian delegate, Shailesh Nayak, expressed their appreciation for the achievements made by Council in the past term.

Barbara Ryan, Secretariat Director of the inter-governmental Group on Earth Observations (GEO) also

expressed her appreciation for the collaboration between ISPRS and GEO.

10. Proposal of Amendments to the Statutes and Bylaws

The proposed amendments were discussed. It was established that further changes were needed and the

Agenda item would be revisited in GA II.

The meeting closed at 16:00.

GA II - Wednesday, July 13, 13:30 - 18:00

11. Roll Call, election of Members to host Commissions 2016-2020

Following the roll call, the election took place. The Swiss delegate, Armin Grün, and the Austrian delegate, Norbert Pfeifer, were elected by the General Assembly

to count the ballots, and Jon Mills from Council was appointed to observe the counting.

The following Ordinary Member delegates were present:

Country	Cat.	Ordinary Member Name	Delegate, Advisers
Algeria	3	Institut National de Cartographie et de Teledetection	Kesraoui Arezki Benahmed Daho Ali
Australia	5	Surveying and Spatial Sciences Institute - Remote Sensing & Photogrammetry Commission	John Trinder
Austria	4	Österreichische Gesellschaft für Vermessung & GeoInformation	Julius Ernst Prof. Norbert Pfeifer
Azerbaijan	2	Azerbaijan representation of ISPRS - Baku State University	Magsad Gojamanov Chingiz Gurbanov Camal Camalov
Canada	8	Canadian Institute of Geomatics	Songian Li Costas Armenakis Ahmed Shaker
Chile	1	Sociedad Chilena de Fotogrametria y Sensores Remotos	Col. José Riquelme Muñoz Cpt. Juan Pablo Palacios Cergna
China	8	Chinese Society of Geodesy Photogrammetry & Cartography	Zhang Jixian Tnag Xinming Jiang Jie
China Taipei	4	Chinese Taipei Society of Photogrammetry & Remote Sensing	Peter T. Y. Shih Yi-Hsing Tseng Fuan Tsai
Cuba	1	GEOCUBA	Pedro Martínez Fernández
Cyprus	2	Department of Lands and Surveys	Georgia Papatoma Economidou Dr Dimitrios Skarlatos
Czech Republic	2	Society for Photogrammetry and Remote Sensing	Karel Vach Václav Šafář Vladimír Kovařík
Denmark	3	Geoforum Danmark	John Kamper Andrew Flatman Eskil Kjærshøj Nielsen

Finland	3	Finnish Society of Photogrammetry & Remote Sensing	Dr. Petri Rönholm Dr. Ville Lehtola M.Sc. Arttu Julin
France	6	Societe Francaise de Photogrammatie et de Teledetection	Marc Pierrot Deseilligny Nicolas Paparoditis Clement Mallet Guests : Inez Burger, Eric Labergerie
Germany	8	Deutsche Gesellschaft für Photogrammetrie, Fernerkundung und Geoinformation e.V.	Uwe Stilla Hans-Gerd Maas Monika Sester
Greece	2	Hellenic Society for Photogrammetry & Remote Sensing	Prof. Andreas Georgopoulos Prof. Petros Patias Prof. Charalabos Ioannidis
Hong Kong	2	Hong Kong Institute of Surveyors	Professor John Shi Wen-zhong
Hungary	3	Hungarian Society of Surveying, Mapping and Remote Sensing	Arpad Barsi 2 to be decided
India	6	Indian Society of Remote Sensing	Dr. Shailesh Nayak Dr. VK Dadhwal PLN Raju
Israel	3	Israeli Society of Photogrammetry & Remote Sensing	Ammatzia Peled
Italy	6	Societa' Italiana di Fotogrammetria e Topografia	Giuseppina Vacca Maria Antonia Brovelli Francesco Pirotti
Japan	7	Japan Society of Photogrammetry & Remote Sensing	Hirofumi CHIKATSU Shunji MURAI Takashi FUSE
Jordan	4	Royal Jordanian Geographic Centre	Brigadier General Dr.Eng.Awni Kasawneh Eng. Nivin Hasan
Mongolia	1	Mongolian Nat'l Society for Photogrammetry & Remote Sensing	Dr. M. Saandar Ochirhyuag
Nepal	1	Nepal Remote Sensing and Photogrammetric Society	Er. Laxmi Thapa
Netherlands	4	Geo-Information Netherlands	George Vosselman Klaas van der Hoek Sisi Zlatanova
Norway	3	GeoForum	Ivar Maalen-Johansen
Philippines	1	Philippine Geosciences and Remote Sensing Society	Gay Jane Perez Dr. Josefino Comiso
Poland	3	Polish Society for Photogrammetry and Remote Sensing	Aleksandra Bujakiewicz Krystian Pyka Zdzisław Kurczyński
Romania	2	Romanian Society for Photogrammetry & Remote Sensing	Col.(ret)eng. Marin Alnitei Prof.dr.eng. Dragos Badea
Russian Federation	8	Federal Service of State Registration, Cadastre and Cartography (Rosreestr)	Denis Dudnikov
Slovak Republic	2	Slovak Society for Photogrammetry and Remote Sensing	Marek Fraštia Peter Barták Marko Paško
Slovenia	1	Association of Slovenia Surveyors - Section of Photogrammetry & Remote Sensing	Mojca Kosmatin Fras Dejan Grigillo Anka Lisec

South Africa	3	South African Society for Photogrammetry and Remote Sensing	Dr Julian Smit Patricia Duncan
Sweden	5	Kartografiska Sällskapet - Swedish Cartographic Society	Sara Wahlund Sara Wiman
Switzerland	4	Swiss Society of Photogrammetry and Remote Sensing	Francois Gervais Dr. Emmanuel Baltsavias Prof. Dr. Konrad Schindler
Thailand	2	Royal Thai Survey Department	Col. Chaisit Preeyanupab Col. Soontorn Romsaiyod
Turkey	4	Turkish National Society of Photogrammetry and Remote Sensing	Abdullah OKUL Prof.Dr.Ferruh YILDIZ Dr. Altan Yilmaz
United Arab Emirates	6	Remote Sensing Center - Fac. of Science - Geology Dept.	Dr. Ahmed Murad Dr. Nazmi Saleous Guests: Mr. Abdulla Rafia
United Kingdom	6	Remote Sensing and Photogrammetry Society	Ian Dowman Stuart Granshaw
USA	8	ASPRS	Charles Toth Lynn E. Usery Michael Hauck
Vietnam	1	Vietnam Academy of Science and Technology, Institute of Geography	Nguyen Dinh Duong

12. Reports from the Regional Representatives

Reports were given from the Regional Representatives for the respective regions:

12.1 Africa - Hussein Farrah

12.2 South East Asia - Nguyen Dinh Duong

12.3 Latin America - Mario Hernandez

13. Reports of Council

The following Council members reported on the past four year period:

9.3 1st Vice President

13.1 Secretary General

13.2 Treasurer

14. Report of Financial Commission

Marie-José Lefèvre-Fonollosa, Chair of the Financial Commission presented the 2012-16 report.

32.1 Report of IPAC

Gunter Schreier, IPAC Chair, reported on the events of the past four year term of the committee.

15. Nominations for Council

The following nominations were received:

- Christian Heipke (Germany) for President
- Lena Halounová (Czech Republic) for Secretary General.
- Songnian Li, (Canada), Petros Patias, (Greece) and Charles Toth, (USA) for 2nd Vice President.
- Songnian Li, (Canada), and Charles Toth, (USA) for Treasurer.

The three candidates for the 2nd Vice Presidency gave a presentation on their views for the future direction of the society.

16. Nominations for Financial Commission

This item was revisited in GA III.

17. Nominations for the Fellows Committee

The UK delegate, Ian Dowman nominated Costas Armenakis (Canada), and the Swiss delegate, Francois Gervais nominated Manos Baltsavias (Switzerland) for the Fellows Committee.

18. Results of Commission Elections

Secret elections for the hosts of the Technical

Commissions I, II and V were held. As there was only one application for Commissions III and IV, the candidates were voted in by acclamation.

The results of the elections were:

- **Com. I Sensor Systems**

Germany / Brazil (120 out of 160)

President: Stefan Hinz, Karlsruhe Institute of Technology, Germany

Vice President: Raul Feitosa, Universidade Católica of Rio de Janeiro, Brazil

- **Com. II Photogrammetry**

Italy / Japan (99 out of 160)

President: Fabio Remondino, Fondazione Bruno Kessler, Trento, Italy

Vice President: Takashi Fuse, University of Tokyo, Japan

- **Com. III Remote Sensing**

China / Canada

President: Jiang Jie, National Geomatics Center of China, China

Vice-president: Ahmed Shaker AbdElrahman, Ryerson University, Canada

- **Com. IV Spatial Information Science**

The Netherlands / Canada

President: Sisi Zlatanova, Delft University of Technology, The Netherlands

Vice President: Suzana Dragicevic, Simon Fraser University, Burnaby, Canada

- **Com. V Education and Outreach**

India / India (96 out of 160)

President: A. Senthil Kumar, Indian Institute of Remote Sensing, India

Vice President: P.L.N. Raju, North East Space Application Centre, India

19. Discussion of Amendments to Statutes and Bylaws

The amendments were discussed.

20. Report on Journals

20.2 Derek Lichti, Editor-in-Chief, reported on the status of the ISPRS Journal of Photogrammetry and Remote Sensing.

20.1 Wolfgang Kainz, Editor-in-Chief, reported on the status of the ISPRS Journal of Geo-Information.

The Netherlands delegate and former editor-in-chief of the ISPRS Journal of Photogrammetry and Remote Sensing, George Vosselman, as well as Marguerite Madden and Chen Jun on behalf of Council, expressed their gratitude for the positive resonance achieved through the hard work of the Editors-in-Chief, Derek and Qihao Weng as well as Wolfgang Kainz, and their teams.

21. Report on Book Series

Zhilin Li, Editor of the Book Series reported on the Series.

Chris Gold presented his new Book Series publication: *Spatial Context: An Introduction to Fundamental Computer Algorithms for Spatial Analysis*.

22. Report on Website

The Web Master, Markus English, reported on the status of the web site.

Chen Jun expressed his thanks, on behalf of the ISPRS, to the Stuttgart University for the continuing support by hosting the Web Master and the server.

23. Item amended. See item 9.2

The meeting was closed at 18:00.

GA III - Saturday, July 16, 13:30 - 18:00

24. Roll Call and Election of Member to Host the ISPRS Congress in 2020

There were 47 members eligible to vote, with a total

of 171 possible votes. The absolute majority necessary to be elected was 86 votes.

The Swiss delegate, Armin Grün, and the Austrian

delegate, Norbert Pfeifer, were elected by the General Assembly to count the ballots, and Jon Mills from Council was appointed as observer.

The following Ordinary Member delegates were present:

Country	Cat.	Ordinary Member Name	Delegate, Advisers
Algeria	3	Institut National de Cartographie et de Teledetection	Kesraoui Arezki Benahmed Daho Ali
Australia	5	Surveying and Spatial Sciences Institute - Remote Sensing & Photogrammetry Commission	John Trinder
Austria	4	Österreichische Gesellschaft für Vermessung & GeoInformation	Julius Ernst Prof. Norbert Pfeifer
Azerbaijan	2	Azerbaijan representation of ISPRS - Baku State University	Magsad Gojamanov Chingiz Gurbanov Camal Camalov
Canada	8	Canadian Institute of Geomatics	Songian Li Costas Armenakis Ahmed Shaker
Chile	1	Sociedad Chilena de Fotogrametria y Sensores Remotos	Col. José Riquelme Muñoz Cpt. Juan Pablo Palacios Cergna
China	8	Chinese Society of Geodesy Photogrammetry & Cartography	Zhang Jixian Tnag Xinming Jiang Jie
China Taipei	4	Chinese Taipei Society of Photogrammetry & Remote Sensing	Peter T. Y. Shih Yi-Hsing Tseng Fuan Tsai
Cuba	1	GEOCUBA	Pedro Martínez Fernández
Cyprus	2	Department of Lands and Surveys	Mrs Georgia Papathoma Economidou Dr Dimitrios Skarlatos
Czech Republic	2	Society for Photogrammetry and Remote Sensing	Karel Vach Václav Šafář Vladimír Kovařík
Denmark	3	Geoforum Danmark	John Kamper Andrew Flatman Eskil Kjærshøj Nielsen
Finland	3	Finnish Society of Photogrammetry & Remote Sensing	Dr. Petri Rönnholm Dr. Ville Lehtola M.Sc. Arttu Julin
France	6	Societe Francaise de Photogrammatie et de Teledetection	Marc Pierrot Deseilligny Nicolas Paparoditis Clement Mallet Guests : Inez Burger, Eric Labergerie
Germany	8	Deutsche Gesellschaft für Photogrammetrie, Fernerkundung und Geoinformation e.V.	Uwe Stilla Hans-Gerd Maas Monika Sester
Greece	2	Hellenic Society for Photogrammetry & Remote Sensing	Prof. Andreas Georgopoulos Prof. Petros Patias Prof. Charalabos Ioannidis

Hong Kong	2	Hong Kong Institute of Surveyors	Professor John Shi Wenzhong
Hungary	3	Hungarian Society of Surveying, Mapping and Remote Sensing	Arpad Barsi 2 to be decided
India	6	Indian Society of Remote Sensing	Dr. Shailesh Nayak Dr. VK Dadhwal PLN Raju
Israel	3	Israeli Society of Photogrammetry & Remote Sensing	Ammatzia Peled
Italy	6	Societa' Italiana di Fotogrammetria e Topografia	Giuseppina Vacca Maria Antonia Brovelli Francesco Pirotti
Japan	7	Japan Society of Photogrammetry & Remote Sensing	Hirofumi CHIKATSU Shunji MURAI Takashi FUSE
Jordan	4	Royal Jordanian Geographic Centre	Brigadier General Dr.Eng.Awni Kasawneh Eng. Nivin Hasan
Mongolia	1	Mongolian Nat'l Society for Photogrammetry & Remote Sensing	Dr. M. Saandar Ochirhyuag
Nepal	1	Nepal Remote Sensing and Photogrammetric Society	Er. Laxmi Thapa
Netherlands	4	Geo-Information Netherlands	George Vosselman Klaas van der Hoek Sisi Zlatanova
Norway	3	GeoForum	Ivar Maalen-Johansen
Pakistan	1	Survey of Pakistan	Mehar Ali Imtiaz Hassan
Philippines	1	Philippine Geosciences and Remote Sensing Society	Gay Jane Perez Dr. Josefino Comiso
Poland	3	Polish Society for Photogrammetry and Remote Sensing	Aleksandra Bujakiewicz Krystian Pyka Zdzisław Kurczyński
Romania	2	Romanian Society for Photogrammetry & Remote Sensing	Col.(ret)eng. Marin Alnitei Prof.dr.eng. Dragos Badea
Russian Federation	8	Federal Service of State Registration, Cadastre and Cartography (Rosreestr)	Denis Dudnikov
Saudi Arabia	4	General Commission for Survey	Alotaibi Sattam Alobeid Abdalla Almotairi Eid
Slovak Republic	2	Slovak Society for Photogrammetry and Remote Sensing	Marek Fraštia Peter Barták Marko Paško
Slovenia	1	Association of Slovenia Surveyors - Section of Photogrammetry & Remote Sensing	Mojca Kosmatin Fras Dejan Grigillo Anka Lisec
South Africa	3	South African Society for Photogrammetry and Remote Sensing	Dr Julian Smit Patricia Duncan

Sri Lanka	3	Survey Department of Sri Lanka	Reynaldo R/ Aodrador
Sweden	5	Kartografiska Sällskapet - Swedish Cartographic Society	Sara Wahlund Sara Wimanés
Switzerland	4	Swiss Society of Photogrammetry and Remote Sensing	Francois Gervaix Dr. Emmanuel Baltsavias Prof. Dr. Konrad Schindler
Thailand	2	Royal Thai Survey Department	Col. Chaisit Preeyanupab Col. Soontorn Romsaiyod
Turkey	4	Turkish National Society of Photogrammetry and Remote Sensing	Abdullah OKUL Prof.Dr.Ferruh YILDIZ Dr. Altan Yilmaz
Ukraine	3	Ukrainian Society of Photogrammetry and Remote Sensing	Prof. Khrystyna Burshtynska
United Arab Emirates	6	Remote Sensing Center - Fac. of Science - Geology Dept.	Dr. Ahmed Murad Dr. Nazmi Saleous Guests: Mr. Abdulla Rafia
United Kingdom	6	Remote Sensing and Photogrammetry Society	Ian Dowman Stuart Granshaw
USA	8	ASPRS	Charles Toth Lynn E. Usery Michael Hauck
Vietnam	1	Vietnam Academy of Science and Technology, Institute of Geography	Nguyen Dinh Duong

The results of the election were:

Dubai 64 of 171 possible votes

Nice 92 of 171 possible votes

Quebec 15 of 171 possible votes

As a result the XXIV ISPRS Congress 2020 will be held in Nice, France. On behalf of the French delegation, Nicolas Papanoditis thanked the General Assembly and accepted the vote.

25. Election of Council

25.1 Election of President

Christian Heipke was elected by acclamation and accepted the new position.

25.2 Election of Secretary General

Lena Halounová was elected by acclamation and accepted the new position.

25.3 Election/Appointment of First Vice President

Chen Jun was appointed and accepted the new position.

25.4 Election of Second Vice President

The results of the election were:

Songnian Li (Canada) 50 of 171 possible votes

Petros Patias (Greece) 59 of 171 possible votes

Charles Toth (USA) 62 of 171 possible votes

As no candidate was elected with the absolute majority, a second round of voting was required between the two candidates with the highest votes, Petros Patias (Greece) and Charles Toth (USA).

25.4.1 2nd Vice-President, 2nd round

The results of the election were:

Petros Patias (Greece) 73 of 171 possible votes

Charles Toth (USA) 98 of 171 possible votes

As a result Charles Toth was elected as 2nd vice

president and accepted the new position. He then cancelled his nomination for Treasurer.

25.5 Election of Treasurer (Pres.)

Songnian Li was elected by acclamation and accepted the new position.

26. Ratification of Congress Director

Nicolas Paparoditis was ratified as Congress Director 2020 by the General assembly by acclamation.

27. Election of Chair and Members of the Financial Commission and Members of the Fellows Committee

Jon Mills was elected Chair of the Financial Commission, with Manos Baltasvias and George Vosselman as commission members.

The General Assembly then elected Marie-José Lefèvre (France) and Eberhard Gülch (Germany) to the Fellows Committee, and Council nominated Costas Armenakis (Canada) and Shailesh Nayak (India) to the Fellow Committee.

28. Proposal and Ratification of Regional Representatives 2016-2020

The following Regional Representatives were ratified:

Africa:	Hussein Farah (2nd term)
S-E Asia:	Lal Samarakoon (1st term)
L. America:	Mario Hernandez (2nd term)

29. Presentation of Resolutions

Orhan Altan presented the resolutions to the General Assembly for discussion. After further amendments, the resolutions will be presented at the fourth GA for ratification.

30. Decision on Amendments to Statutes and Bylaws

The amended Statutes and Bylaws were presented by Marguerite Madden. The General Assembly ratified the amendments.

31. Report on ISPRS Foundation

Dieter Fritsch presented the TIF report.

32. Reports from ISPRS Committees

32.2 ISAC

Ian Dowman, ISAC Chair, presented the report.

32.3 IIAC

Franz Leberl reported on the instalment of the new International Industry Advisory Committee. He also introduced the new chair, Christian Hoffman from Trimble.

32.4 ICORSE

Lawrence Friedl, Chair, reported on the events of the past four year term.

32.5 CIPA

CIPA Chair, Andreas Georgopoulos, presented the report.

32.6 Student Consortium

Ursa Kanjir, SC Chair reported on the achievements of the Student Consortium over the past term.

The meeting was closed at 17:30.

GA IV - Monday, July 18, 13:30 - 18:00

3. Congress Director's Report

Lena Halounová reported that of the 1994 submitted papers to Congress, 1819 were accepted, with 663 reviewers making 3750 reviews. 454 papers were submitted to *Annals* and 1540 to *Archives*. All Technical Commissions were active, and along with Special Sessions and others, a total of 897 oral presentations, 922 interactive presentations and 186

oral sessions took place. 710 submissions were delivered by young authors (under 30 years of age). A total of 2294 participants from 88 countries attended the Congress, the major groups coming from China, Germany, Czech Republic and USA. 77 exhibitors displayed over an area of 799 m². The Congress used full digital infrastructure for the participants, including a daily Newsletter (printed and digital) and Congress

TV; every morning all participants received links to both with news of the previous day.

34. Approval of Resolutions for 2016-2020

The Resolutions were prepared by the Resolution Committee consisting of Orhan Altan, John Trinder, Wolfgang Wagner and John Shi.

The 1st Vice president presented the Resolutions to the Assembly where they were approved.

ISPRS congratulated the Czech Society, its president and the Congress Director Lena Halounová, the Technical Program Director, Václav Šafář, the Local Organizing Committee and the Congress PCO, Auletris, s.r.o., for their excellent work which has resulted in a very successful Congress.

35. Date of the next General Assembly

Possible dates for the next Congress are:

12-19 July,

28 June - 5 July, or

30 August - 6 September, 2020, in Nice, France

The final date is to be decided.

36. Any other business

No other business

37. Close of General Assembly

The outgoing President, Chen Jun, thanked the Members for their work and dedication to the ISPRS and closed the General Assembly at 15:00

REPORT OF ISPRS PRESIDENT CHEN JUN to the GENERAL ASSEMBLY for the TERM 2012–2016

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

During the past four years, I worked closely with ISPRS Council members, Technical Commission Presidents (TCPs) and all the other ISPRS officers, to serve our society. Efforts have been devoted to enhance ISPRS's scientific leadership, to improve services for our members, and to strengthen multi-disciplinary collaboration with other organizations. Now I am very pleased to present a summary report here.

Enhancing ISPRS Scientific Leadership

As a leading international society in the field of photogrammetry, remote sensing and spatial information sciences (P&RS&SIS), ISPRS is entering a new phase with more opportunities, big challenges and strong competitions. Following the ISPRS strategic plan adopted in 2010, several actions have been taken to increase the visibility and the impact of our discipline and of our society, such as the preparation of an overarching scientific vision paper and a declaration for Prague Congress, as well as the improvement of our scientific publications.

Publication of an ISPRS Scientific Vision Paper

ISPRS has a long tradition in developing and presenting scientific vision to its members and communities, such as the formulation of Congress resolutions and Technical Commission's TORs. In December 2012, Council decided to prepare an overarching scientific

vision paper through close collaboration with TCPs, ISAC and IPAC. It was completed in the middle of 2015 and has been published as an original article with a title 'Information from imagery: ISPRS scientific vision and research agenda' in the ISPRS Journal of Photogrammetry & Remote Sensing (May 2016, 115(3–21), doi:10.1016/j.isprsjprs.2015.09.008).

This final 19-page vision paper examines the significant challenges currently facing ISPRS and its communities, reviews the state-of-the-art in ISPRS related research, development and trends, and identifies the research topics for future work. At the same time, a special issue 'The state-of-the-art of Photogrammetry and Remote Sensing' with 10 review/overview papers has been prepared and published in the ISPRS Journal of Photogrammetry & Remote Sensing (Volume 115, May 2016). We hope that this scientific vision paper and the special issue will encourage more innovative research and development activities in this field, and also support the preparation of 2016 Congress Resolutions, TORs of Technical Commissions, and the formation of new working groups.

Preparation of Prague Declaration

Deriving scientific evidence from imagery in support of the United Nations Sustainable Development Goals (SDG) and ICSU's Future Earth initiatives is a hot topic and has been discussed largely by international communities. Clearly, this requires not only technological innovations, but also a closer multi-disciplinary and cross-board collaboration within the

P&RS&SIS community and with other communities. To address this challenge, ISPRS council proposed to support Future Earth with global geo-information as a response or a voice from the P&RS&SIS community. The issues related to its concept, implementation and collaboration were discussed in an ISPRS workshop held in Beijing, June 9-10, 2015 [ISPRS e-Bulletin, Issue No 3 – 2015].

On the basis of this workshop, an ISPRS declaration was drafted by Council and ISAC, and sent to JBGIS for comments. This declaration emphasizes the ISPRS commitment to realize the full potential of information from imagery through research and development, scientific networking, international co-operation, interdisciplinary integration, education and training. It calls on international communities to work together towards providing reliable geospatial information to support societal transformations for global sustainability. In particular, this declaration proposes advancement of a global geospatial information framework to be formed through collaboration between ISPRS and international communities. This draft declaration will be presented to this ISPRS General Assembly in Prague for comments and approval.

Improvement of Scientific Publications

Maintaining and improving the quality of scientific publications (Journals, Book Series, Annals and Archives) is one of the strategic tasks for ISPRS Council. Firstly, the collaboration with the chief-editors of the two journals (ISPRS J. P&RS and ISPRS J. GIS) was enhanced during the last four years, especially on the preparation of the Strategic Plan for ISPRS Publications and the organization of special issues. The SCI impact factor of ISPRS J. P&RS has increased to 3.1 in 2015. ISPRS J. GIS has also been included in SCI index. Secondly, a transformation from edited books to authored books for the ISPRS Book Series was proposed and approved by Council, as the original function has been replaced by the newly created ISPRS Annals. As a result, the first authored book, "Spatial Context" authored by Prof. Chris Gold, has been published and will be presented to the Prague Congress. Thirdly, ISPRS Annals and Archives have both been included in the Web of Science which may encourage more submissions.

Improving Services to Members and the Community

ISPRS has a very good reputation in its services to members and the community, but is also facing some challenges nowadays. While maintaining those good traditions, a number of efforts have been devoted to improve the existing service or create new services.

The Re-structuring of Technical Commissions

ISPRS have eight Technical Commissions (TCs) responsible for the scientific and technologic activities of the society through their nominated Working Groups (WGs). Some ISPRS scientists and officers identified various problems of the current TC structure, such as publications between some TCs with a substantial amount of duplicated activities, minimal participation in some TC's symposium, and difficulty to motivate more ordinary members for bidding for the TCs. The possibility of the re-structuring had been explored by Council since 2013 and ISPRS members were invited to contribute their ideas and opinions throughout 2014, especially at all the eight TC Symposia and with ISAC and IPAC. A new TC structure was proposed by the ISPRS Council and accepted by ISPRS Ordinary Members with an overwhelming majority through a postal ballot in early 2015. The new TC structure has five new TCs: Commission I- Sensor Systems, Commission II- Photogrammetry, Commission III- Remote Sensing, Commission IV- Spatial Information Science, Commission V-Education and Outreach. The TOR of the five new TCs are also formulated and will be presented to the General Assembly for discussion in Prague.

The New ISPRS Conference Structure

The former ISPRS conference structure during a four year period consists of a quadrennial congress (Year 1), mid-term symposia (Year 3), and a number of workshops and conferences in all the four years (Year 1 to Year 4). Council received some critic from ISPRS members, such as too many smaller conferences/workshops and no visible ISPRS annual conference in the odd years (Year 2 and Year 4). It was proposed to organized an ISPRS Geospatial Week (GSW) biennially in odd years with a bundle of different workshops held at the same time and at the same place. The first GSW was organized in 2013 by Filiz Sunar in Antalya, Turkey. The second one was held in 2015 by Nicolas Papanoditis in Montpellier, France. Both meetings attracted a large number of participants and provided high level scientific contributions. It seems that these GSWs have increased the possibility of communication between the different workshop communities and increased the visibility of ISPRS through a large event in odd years. This has led to a new ISPRS conference structure with an annual cycle of ISPRS events, i.e., Congress, GSW, Symposia, GSW, and Congress. The third GSW will be held in Wuhan, China from Sept. 18 to 22 in 2017.

Membership Development and Services

After lengthy discussions and the approval of Ordinary members by a postal ballot, the ISPRS Individual membership was implemented at the beginning of 2014. The establishment of Corporate Sustaining Members and an International Industrial Advisory

Committee were also proposed to encourage more geospatial companies and industrial players joining ISPRS.

National Mapping and Cadastre Agencies (NMCA) are significant players in the field of P&RS&SIS and many of them are ISPRS Ordinary members. In order to highlight their important role and increase their visibility, the First ISPRS and UN-GGIM National Mapping Forum during Prague Congress was proposed. It will be organized in conjunction with a Space Agency Forum. This will provide NMCA a good platform to discuss scientific and technical issues in cadastral and topographic mapping with international colleagues, to share their experience in operational mapping and services, and to explore further collaborations with space agencies.

Scientific Initiative

During the autumn of 2013, ISPRS launched a call for participation in the Scientific Initiatives (SIs) with a 2014 budget of CHF 40,000 Swiss Francs. In order to benefit all ISPRS members, Working Group officers were invited to submit project ideas to support scientific and other initiatives with the aim to further improve the international status of ISPRS in the field of the photogrammetry, remote sensing and spatial information sciences. Eleven teams of researchers across six of the eight TCs submitted cases for support. Comment was sought from the relevant TCPs, and a sub-committee of three Council members was convened to independently review the proposals on the basis of scientific excellence. During the meeting in Antalya, six projects were selected and were funded at a maximum of CHF 10,000, per year. See www.isprs.org/news/announcements/131117-ISPRS-Scientific-Initiative-summaries.pdf

In October 2014, a new call for ISPRS SIs was issued and 11 researcher teams across all of the eight ISPRS TCs submitted applications. An ad-hoc committee with three members reviewed these applications and seven projects were funded to a total of CHF 33,000 Swiss Francs. Recently, ISAC gave a positive review of the results of these tendencies and suggested to continue the SIs with a few valuable recommendations. On the basis of the results, it is planned to continue issuing calls for the SIs in odd years, subject to availability of resources.

Strengthening Collaboration with other Organizations

During the last four years, we have strengthened the collaboration with other international and regional organizations through inter-disciplinary research, joint workshops and other activities of common interest. This responsibility was shared by council members and other ISPRS officers. Here, I mention GEO and UN-GGIM as examples. The collaboration with other

organizations will be reported by the Secretary General and other council members.

Collaboration with GEO

As a participating organization, ISPRS has been collaborating with GEO on global land cover mapping and service which is a common interest. Three workshops and two side events at GEO plenaries were organized (Geneve, January 14, 2013; Beijing, April 24-26, 2013; Shanghai, June 6-7, 2015; Beijing, June 9-10, 2015; Mexico City, Nov.9, 2015). A theme issue on Global Land Cover Mapping and Monitoring was published in the 2015 May issue of ISPRS J. P&RS (www.sciencedirect.com/science/journal/09242716/103). A research initiative on Collaborative Global Land Information Platform was proposed and will be included as a GEO Initiative of 2017-2019.

Collaboration with UN-GGIM

As the representative of ISPRS to UN-GGIM, I attended the 3rd and 5th session of the UN-GGIM (Cambridge, July 24-26, 2013; New York, August 5-7, 2015) and the 3rd and 4th UN-GGIM High-level Forum (Beijing, Oct. 22-24, 2014; Addis Abeba, April 20-22, 2016). With UN-GGIM, two training workshops on GlobeLand30 and its applications were organized jointly for developing countries (Beijing, June 29-July 2, 2015; Addis Abeba, April 18-19, 2016). The next joint event is the National Mapping Forum to be held from July 14 to 15 during the Prague Congress.

A UN-GGIM&ISPRS project "Global Status Of Mapping" has been conducted by Gottfried Konecny and supported by Hannover University. The project started at the end of 2012 and was completed mid 2015. A questionnaire was sent out by the UN-GGIM Secretariat to the UN Member States requesting information on the current state of authoritative topographic mapping data at the scale ranges of 1:25 000, 1:50 000, 1:100 000 and 1:250 000 and the age of these datasets. Altogether, 115 from 193 UN member countries have answered the questionnaire. An assessment of the global coverage and the age of the data was completed and printed in a 64 page publication, which is available on the websites of UN-GGIM and ISPRS.

Administration and Operational Matters

Organizing ISPRS Business Meetings

With the strong support from the Secretary General and ISPRS Headquarters, more than ten council meetings/joint meetings and 6 tele-meetings were organized. Minutes of these formal meetings have been published on the ISPRS website. Details of the Council and Joint Meetings will be reported by the SG.

During the four year period, the eight TCPs have done excellent jobs organizing the scientific activities of ISPRS, including symposia, conferences, special issues

and benchmarking etc. Most working groups have organized at least one meeting.

Table 1. ISPRS business meetings organized

No.	Dates	Council Meeting	Joint Meeting	Tele-Meeting	Venue (Conference combined)
1	Sept. 2, 2012	√	√		Melbourne, Australia (ISPRS XXII Congress)
2	Oct. 9, 2012			√	
3	Dec. 3-7, 2012	√	√		Chengdu, China
4	March 7, 2013			√	
5	May 9-11, 2013	√			Hannover, Germany
6	August 6, 2013			√	
7	Nov. 10-14, 2013	√	√		Antalya, Turkey (ICSU GeoUnions Meeting)
8	Feb. 12, 2014			√	
9	April 15-17, 2014	√			Novosibirsk, Russia (Interexpo Geosiberia 2014)
10	Dec. 8-11, 2014	√	√		Hyderabad, India (ISPRS TC VIII Symposium)
11	March 30-April 2, 2015	√			Newcastle, UK
12	April 24, 2015			√	
13	July 7-10, 2015	√	√		Prague, Czech Republic
14	Jan. 7-9, 2016	√			Beijing, China
15	Feb. 17, 2016			√	Munich, Germany
16	March 15-18, 2016	√	√		Dubai, UAE

Representing ISPRS at other Conferences

During the past four years, I have represented ISPRS at more than 40 conferences or meetings organized by ISPRS or other international organizations, as listed in

Table 2. It gave me a good opportunity to learn from our members and to meet representatives from other countries/organizations.

Table 2. Other conferences attended in the name of ISPRS (selection)

Dates	Conferences	Venue	Role
Nov. 22-23, 2012	GEO-IX Plenary Session	Foz de Iguacu, Brazil	ISPRS Statement and Presentation
Nov. 26-30, 2012	ACRS 2012	Pattaya, Thailand	Keynote Presentation

March 24-28, 2013	ASPRS Conference 2013	Baltimore, USA	Greetings at the Opening
April 21-26, 2013	ISRSE Meeting	Beijing, China	Greetings at the Opening
May 14, 2013	Annual Conference of French Society	Paris, France	Greetings at the Opening and Keynote Presentation
July 24-26, 2013	UN-GGIM Forum (Cambridge conference)	Cambridge, UK	Presentation
Sept. 2-6, 2013	CIPA Conference	Straßbourg, France	Welcome Speech and Presentation
Sept. 9-13, 2013	54 th Photogrammetric Week	Stuttgart, Germany	Welcome Speech
Sept. 20-22, 2013	23rd UN/IAF Workshop on Space Technology for Economic Development	Beijing, China	Presentations
Nov. 11-17, 2013	ISPRS GeoSpatial Week	Antalya, Turkey	Welcome Speech and Plenary Presentation
Nov. 6-7, 2013	Symposium on Satellite Mapping Technology and Application	Nanjing, China	Welcome Speech and Plenary Presentation
Dec.5-6, 2013	ISPRS/IGU/ICA Workshop on Borderlands Modelling and Understanding	Beijing, China	Welcome Speech and Plenary Presentation
Jan. 16-18, 2014	GEO-X Plenary Session and Ministerial Summit	Geneva, Switzerland	ISPRS Statement and Presentations at side events
April 11-12, 2014	1st Union Commission on Climatic and Environmental Change (CCEC) Workshop	Beijing, China	Presentation
April 16, 2014	Interexpo GEO-Siberia	Novosibirsk, Russia	Welcome Speech and Presentation
May 14-16, 2014	ISPRS TC IV Symposium	Suzhou, China	Welcome Speech and Plenary Presentation
May 19-21, 2014	ISPRS TC VI Symposium	Wuhan, China	Welcome Speech and Keynote Presentation
July 1-3, 2014	AfricaGEO	Cape Town, South Africa	Keynote Presentation
June 3, 2014	ICSU Workshop on Future Earth	Beijing, China	Presentation
Aug. 28-Sept. 3, 2014	31st ICSU General Assembly	Auckland, New Zealand	Statement
Sept. 5-7, 2014	ISPRS TC III Symposium	Zurich, Switzerland	Welcome Speech
Oct. 20-24, 2014	Racurs Conference 2014	Hainan, China	Opening Speech and Keynote Presentation

Oct. 20-24, 2014	Third UN-GGIM High Level Forum	Beijing, China	Plenary Presentation
Oct. 27-31, 2014	ACRS 2014	Nay Pyi Taw, Myanmar	Welcome Speech and Keynote Presentation
Nov.1-5, 2014	12th ISPRS Student Consortium and WG VI/5 Summer School	Nay Pyi Taw, Myanmar	Welcome Speech and Lecture
Nov. 27-28, 2014	39th ISO/TC 211 plenary	Shenzhen, Chin	Presentation
Dec. 9-12, 2014	ISPRS TC VIII Symposium	Hyderabad, India	Welcome Speech and Keynote Presentation
May 25-29, 2015	Geospatial World Forum 2015	Lisbon, Portugal	Oral Presentation
June 5-7, 2015	ISPRS/GEO/ICA workshop on Trust in Spatial Data	Shanghai, China	Welcome Speech and Keynote Presentation
June 9-10, 2015	Workshop on Supporting Future Earth with Global Geo-information	Beijing, China	Welcome Speech and Presentation
June 15-19, 2015	35th EARSeL symposium	Stockholm, Sweden	Plenary Presentation
August 5-7, 2015	Fifth session of UN-GGIM	New York, USA	ISPRS Statement
Nov. 9-13, 2015	GEO-XII Plenary Session and Ministerial Summit	Mexico City, Mexico	Statement and Presentation
Dec. 5-6, 2015	ISPRS Workshop on Mobility and Land Cover Change Mapping	Changsha, China	Plenary Presentation
April 20-22, 2016	UN-GGIM Forum	Addis Ababa, Ethiopia	Giving Lectures at side event
May 23-27, 2016	Geospatial World Forum	Rotterdam, The Netherlands	Presentations

Reporting to the Society through various Media

gives some of the editorials and reports that I wrote in the last four years.

Reporting on the activities of the society through the ISPRS e-Bulletin and other media has been shared by Council members and other ISPRS officers. Table 3

Table 3. Reports publicized in ISPRS e-Bulletin and other Media

Magazines	Issue/Date	Article Title
ISPRS e-Bulletin	Issue 5- Nov., 2012	Editorial: Stronger scientific voice and better service
	Issue 1- Feb., 2015	Editorial: Supporting Future Earth with Global Geo-information
	Issue 1- March, 2016	Editorial: Towards an Advanced Geospatial Computing Platform

GIM Page	October, 2012	ISPRS under new Leadership
	August, 2013	Supporting Future Earth with Global Land Cover Information
		GIM International Business Guide 2016 – Interview questions
Geoinformatics Page	April, 2014	Global Land 30: first Global Land Cover data at 30 meters resolution
Geospatial World	Feb. 2015 / 42-43	GlobeLand30 is a reliable dataset for Sustainable Development
Annual Report	2012-2013 Biennial Report	Message from the President
	2014-2015 Biennial Report	Message from the President
PE&RS	Nov., 2014	Letter from ISPRS President

Acknowledgements

The abovementioned achievements could not have been accomplished without the good team work of ISPRS officers, members and supporters. I would like to take this opportunity to express my sincere thanks to them.

First of all, I would like to thank my fellow council members, Secretary General Christian Heipke, 1st Vice President Orhan Altan, 2nd Vice President Marguerite Madden, Treasurer Jon Mills, and Congress Director Lena Halounová. They have not only provided me with brilliant ideas and strong support, but also made significant contributions to the areas where they take responsibility.

Secondly, I would thank all the TCPs, Working Group officers, ISAC, IPAC and the other committees, Journal and Book series editors, Regional Representatives, Web Master, Headquarter Staff, and all other ISPRS

officers. They have done excellent jobs, which supported the successful operation of the whole society.

Thirdly, I want to express my gratitude to our Ordinary Members, Honorary Members, Regional Members, Sustaining Members, Associate Members, Fellows and many others. They gave us generous support and valuable suggestions. Some of them have hosted ISPRS conferences, meetings, and / or provided support to other ISPRS related activities.

Finally, I should thank my own organization (National Administration of Surveying, Mapping and Geo-Information and National Geomatics Center of China) and Chinese Society of Geodesy Photogrammetry & Cartography. They have provided me with long-term financial and personnel support for my ISPRS related activities.

Chen Jun, President

REPORT OF ISPRS SECRETARY GENERAL CHRISTIAN HEIPKE to the GENERAL ASSEMBLY for the TERM 2012–2016

Distinguished Delegates, Ladies and Gentlemen,

It is my great pleasure to present my report on the activities of the Secretary General since the last Congress in Melbourne 2012. The past four years have been very busy. While ISPRS has further consolidated its role as an international society representing the areas of the photogrammetry, remote sensing and spatial information sciences, important changes were initiated, discussed and implemented with respect to raising its scientific profile, the commission structure, the meeting schedule, the society publications and the

membership structure. The Secretary General is responsible for the day to day business of the Society, and in particular for the management of Headquarters, internal and external communication, the coordination of business meetings, commission activities, ISPRS events and the related Archives and Annals proceedings series, and for membership management. I also attended a number of meetings on behalf of ISPRS and represented the Society on occasions in place of the President. In addition, I participated in shaping the future of the society in the scientific area, visible e.g. in the establishment and

publication of the research agenda and the launch of the Scientific Initiative, in the commission restructuring process, the introduction of the ISPRS Geospatial Week series in odd numbered years, and in helping to establish the new International Industry Advisory Committee (I²AC) to give industry a better voice in ISPRS.

I would like to note here, that managing the Society and running ISPRS Headquarters was significantly facilitated by a generous grant from the German Science Foundation, DFG (Deutsche Forschungsgemeinschaft), and was excellently carried out by Annette Radtke. Both, the DFG support and Annette's great work are gratefully acknowledged.

1. Communication

Communication, a core responsibility of ISPRS Headquarters, covers both, internal and external communication. Today, **internal communication**, i.e. communication with ISPRS members, with Technical Commission and Working Group officers and other society bodies (Committees etc.) is primarily done by e-mail. There is a non-negligible effort to keep the related addresses up-to-date, and Headquarters has conducted updates once a year as well as on an ad hoc basis when necessary. As a result, nearly all members and all individuals active in the society can be reached via e-mail.

Part of internal communication was the revision and publication of the *Orange Book* (Manual of operation of ISPRS Technical Commissions and Working Groups) and the *Green Book* (Responsibilities and Duties of Council Members). The information previously found in the *Blue Book* (Member Addresses) and the *Silver Book* (ISPRS Organisations and Programs) can now be found on the web. Consequently, publication of the Blue and the Silver Book is no longer required. Also, a number of Guidelines of the society for Candidates for members of the Council, Guidelines for members planning to host an ISPRS Congress, Guidelines for Regional Representatives, Guidelines for ISPRS Awards, the ISPRS Financial Policy, Guidelines for ISPRS Financial Commission, the ISPRS Spending Policy, the ISPRS Individual Membership Policy and the Strategic plan for ISPRS publications, have been collected and published on the web.

External communication comprises the maintenance of the ISPRS web pages - with the superb support of our web master, Markus English (the web of course also supports internal communication), publication of the electronic newsletter, the ISPRS eBulletin, every two months, preparation and distribution of the new Biennial

Report 2012-13 and 2014-15 as well as material describing and promoting the society such as the ISPRS Brochure, prepared with the help of Congress Director Lena Halounová, the ISPRS Profile and the ISPRS Awards Brochure, prepared by 1st Vice President Orhan Altan.

The biennial reports were sent to all ISPRS Members and officers and to a number of related organisations. Numerous copies of the two brochures were sent to organisers of ISPRS events to be distributed to all participants at the meeting. The profile was also distributed at numerous events. In addition, a banner was created and put into place on various occasions such as the Intergeo 2013, 2014 and 2015, where ISPRS had a stand, and with the help of Treasurer Jon Mills, a set of ISPRS slides was designed and made available to ISPRS officers to present the society at various events. The Secretary General also coordinated input to publish a monthly page of society news in the GIM magazine, and twice a year in Geoinformatics. Finally, external communication included correspondence with sister societies and other organisations such as ICSU, GEO, JBGIS and dealing with all requests which reached Headquarters.

2. Coordination of Business Meetings and ISPRS Events

Council and Joint Meetings with TCPs

During the last four years five council meetings, six joint meetings with Technical Commission Presidents (TCPs) as well as ten teleconferences and informal meetings were organised as listed in appendix 1, see also the President's report. Members of Council also met at international meetings, particularly the ISPRS Symposia, and held a number of ad hoc meetings. The Secretary General and Headquarters secretariat prepared working documents for these meetings with the guidance of the president and the help of other council members. All Minutes of Council & Joint Meetings are published on the web. A number of ISPRS members have assisted in and sponsored the organisation of these business meetings. Council is very grateful to all the organisations for their support.

ISPRS Events and ISPRS Co-sponsored Events

ISPRS Technical Commissions (TC) and Working Groups (WG) have organised a number of workshops, and other scientific meetings during the course of the last four years, most notably the **Technical Commission Symposia** in 2014, see Table 1.

TC	Location, date (all 2014)	Title	Total attendance	Papers in Archives/ Annals	Partners
I	Denver, US, Nov 17-20	Sustaining Land Imaging: UAVs to satellites	480	66 / 10	ASPRS Pecora 19, IAG Com. 4
II	Toronto, CAN, Oct 6-8	Building Connections in GIScience for Future	150	38 / 13	IGU
III	Zürich, CH, Sep 5-7	Photogrammetric Computer Vision and Image Analysis	200	56 / 27	ECCV
IV	Suzhou, PRC, May 14-16	Geo-spatial Databases and Location based Services	319	68 / 15	
V	Riva, ITA, Jun 23-25	Close-range Imaging, Ranging and Applications	280	93 / 52	
VI	Wuhan, PRC, May 19-21	Data, Information, and Knowledge Sharing for Geo-Education	300	24 / 3	ICA Com. on Education
VII	Istanbul, TUR, Sep 29-Oct 2	Thematic Processing, Modeling and Analysis of Remotely Sensed Data	81	36 / 13	
VIII	Hyderabad, IND, Dec 9-14	Operational Remote Sensing Applications: Opportunities, Progress and Challenges	450	237 / 28	

Table 1: ISPRS Technical Commission Symposia 2014

The ISPRS event of importance next to the Congress and the Symposia is the newly established **ISPRS Geospatial Week (GSW)**. It is a combination of workshops organised biennially in odd numbered years by various ISPRS Working Groups and possibly other parties active in areas of interest of ISPRS, and is convened by the GSW Director at a common location.

The ISPRS Geospatial Week reduces the fragmentation of the scientific meeting calendar, increases the possibility of communication between different communities within ISPRS and beyond, increases the continuous visibility of ISPRS on a yearly basis and together with the Congress and the Commission Symposia, thus leads to larger impact for ISPRS activities and gives Sustaining Members a more attractive opportunity to participate in ISPRS events.

Two ISPRS Geospatial Weeks were held during 2012 - 2016:

- the ISPRS Geospatial Week 2013 in Antalya, Turkey, from 11-17 Nov. 2013, led by Filiz Sunar. A total of 176 participants representing all 5 continents participated in a general conference with the title "Serving Society with Geoinformation", in three

workshops and a sequence of sessions entitled "Earth Observation Data Policy and Data Sharing", organised by the ISPRS Policy Advisory Committee (IPAC).

- the ISPRS Geospatial Week 2015 in La Grande Motte, France on 28 Sept. - 2 Oct. 2015, led by Nicolas Paparoditis. GSW 2015 was composed of 11 individual workshops with more than 500 participants from 52 countries and about 350 papers being presented. Some of the workshops are well-established within ISPRS, other are renowned non-ISPRS workshops.

Prior to the GSW 2015, a procedure for the Organisation and Bidding Process of GSW was developed. Based on this procedure the decision was taken in La Grande Motte to organise the next ISPRS Geospatial Week in Wuhan, China, on 18-22 September 2017.

In addition to Congress, Symposia and GSW, ISPRS runs so called ISPRS events, where the society, through its working groups, acts as main organiser and proceedings are published in the Archives /Annals series, and so called ISPRS co-sponsored events, where ISPRS is a co-organiser. For ISPRS co-

sponsored events, proceedings are not published in the Archives/Annals series. The Secretary General is responsible for approving applications for ISPRS events and co-sponsorship based on an [Application form for ISPRS Events](#).

During 2012-2016, incl. the eight Symposia and the two Geospatial Weeks, 70 ISPRS events and co-sponsored events (40 with Archives/Annals proceedings) were approved and subsequently

organised by various working groups across the globe, see Fig. 1. As can be seen from the figure, there was more activity in some areas, e.g. in Europe and South East Asia, and significantly less in others. For instance, ISPRS did not succeed in organising a meeting in Africa during the last four years. Spreading its activities more equally across the globe remains a major challenge for the society.

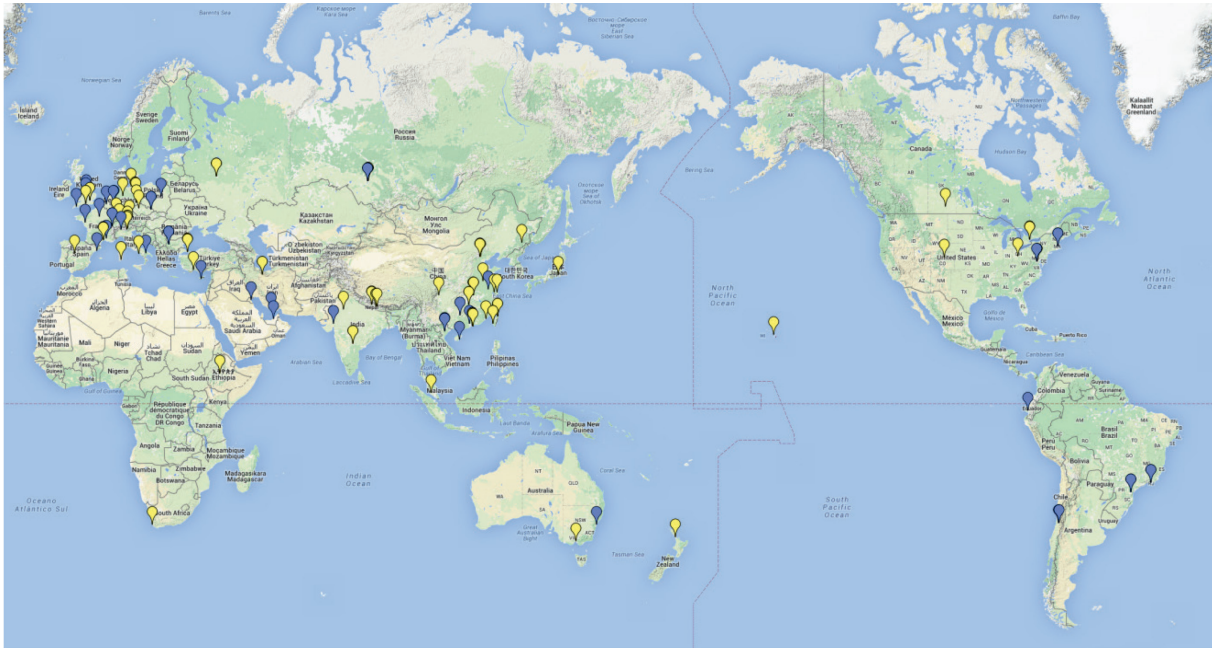


Figure 1: ISPRS events (yellow) and ISPRS co-sponsored events (blue) organised during 2012 - 2016 across the globe

3. Scientific Publications

Overview

ISPRS has a number of scientific publications:

- two journals, the ISPRS Journal of Photogrammetry and Remote Sensing (ISPRS J Ph&RS) and the open access ISPRS International Journal of Geo-Information (IJGI). The ISPRS J Ph&RS has been the flagship journal of the society for many years. Since April 2015, the open access IJ-GI is also indexed in the Web of Science and shows continuous growth, see agenda item 21 for reports on the two journals;
- the ISPRS Book series, see agenda item 22;
- [The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences](#), which contain the abstract-reviewed proceedings and the scientific and technical presentations of all ISPRS Congresses, Symposia and selected

workshops. The series was established more than 100 years ago;

- the [ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences](#), which contain accepted full paper double-blind peer-reviewed scientific proceedings of ISPRS Congresses, Symposia and a number of workshops. The series was established in 2012.

During the last four years a [Strategic Plan for ISPRS Publications](#) was developed under the leadership of 2nd Vice President Marguerite Madden. This document provides a foundation of where ISPRS stands and where it wants to go with respect to scientific and non-scientific publications.

Indexing of Proceedings

Since May 2014, the Archives, and since April 2015 also the Annals have been included into the Thomson Reuters Conference Proceedings Citation Index (CPCI) of the Web of Science. Since about two years the Archives and the Annals are also listed in DOAJ, the Directory of Open Access

Journals. In addition, the Archives are part of SCOPUS, and an application to also include the Annals was submitted in late 2014. The decision is due shortly and will hopefully be positive. Finally, applications for inclusion into the Engineering Index EI have been submitted recently for both the Archives and the Annals.

All indexing of ISPRS proceedings was initiated with the help of the ISPRS proceedings publisher, Copernicus GmbH of Göttingen, Germany.

Proceedings Publications 2012 – 2016

Including the Symposia and the Geospatial Week, proceedings to a total of 41 Archives and 21 Annals volumes were published by Copernicus GmbH since the Melbourne Congress, all on the Internet

under the Creative Common Attribution 3.0 License. The distribution across commissions (see also Table 2; the table also contains the number of events without Archives/Annals proceedings) is not even. Besides many other factors, this fact also reflects the level of acceptance of different publication formats (abstract-reviewed vs. full paper double blind peer-reviewed) by the different areas of ISPRS.

In most cases where Archives and Annals were not produced, proceedings were published by other organisations, e.g. by another publisher or by the local host. In some cases proceedings were not published at all.

A list of all published proceedings is contained in Appendix 2.

TC	Archives	Annals	Events without Archives/Annals	TC	Archives	Annals	Events without Archives/Annals
I	6	2	5	V	9	4	2
II	5	3	3	VI	2	1	2
III	5	6	-	VII	5	1	3
IV	8	3	10	VIII	1	1	5

Table 2: Number of Archives and Annals volumes published during 2012 - 2016 (incl. Symposium and GSW proceedings) and events without Archives/Annals proceedings

Repository and Scanning of Old Proceedings

For decades the physical ISPRS repository containing many of the old ISPRS proceedings and other society material, was hosted by ITC in the Netherlands. Following the integration of ITC into the University of Twente discussion started about whether it would be better to move the material to another place. In this situation the Technische Informationsbibliothek (Technical Information Library - TIB) of Leibniz Universität Hannover offered to not only host the ISPRS repository, but also to make the texts available on the internet. The move was carried out in summer 2014. The texts are now gradually being made available to the public, as all volumes are being digitised and integrated into the ISPRS web interface. TIB performs this task free of charge as a service to the Society and the spatial science community.

4. Membership Management

Currently, ISPRS has 91 Ordinary Members, 13 Associate Members, 15 Regional Members and 61 Sustaining Members. Since the Melbourne Congress three new Ordinary Members, two Associate Members, one Regional Member and five Sustaining Members have joined the society,

while two Ordinary Members cancelled their membership; one has asked to have its category lowered. In addition, 21 Sustaining Members have cancelled membership or were expelled by Council for lack of membership payment (see agenda item 04 for details).

During the XXII ISPRS Congress, held in August 2012 in Melbourne, Australia, the ISPRS General Assembly decided to introduce a new membership category for individuals. At the same time, the new ISPRS Council was tasked to develop a policy and an implementation procedure for this new membership category. In intensive discussions, in particular with its Ordinary Members, Council developed an [ISPRS Individual Membership Policy](#). According to this policy Individual Membership is free of charge and must be reapplied for every year. The policy was favourably considered by the Ordinary Members in a postal vote in early 2014. Individual Membership in ISPRS thus started in May 2014. As of the end of 2015 ISPRS had 394 Individual Members. Most of them reapplied for 2016. As of May 31, 2016 the number of Individual Members stands at 356. Appendix 3 contains details of the Individual Members per country/region.

In order to improve the cooperation with Sustaining Members and to give them a better voice in ISPRS, Council has initiated a new ISPRS Committee called International Industry Advisory Committee (I²AC). Franz Leberl has agreed to take first steps towards establishing the new committee and has spent countless hours in setting up provisional terms of reference, providing a draft for a work plan and in contacting potential members, see also agenda item 32. It is suggested to formally establish I²AC as a permanent ISPRS Committee during the General Assembly in Prague.

5. Representation of ISPRS at Different International Meetings

Apart from participating in Council Meetings and all but one Commission Symposia in 2014, the Secretary General attended many international meetings to represent ISPRS during 2012 - 2016, was invited to deliver a number of key note presentations in the name of the society and has visited various members in order to learn about their specific needs, to present ISPRS and to discuss further possibilities of cooperation. The Secretary General has also met with companies and individuals and individual WG officers, often on more than one occasion. Furthermore, the Secretary General has been involved in each year's INTERGEO Trade Fair, together with Congress Director Lena Halounová, and ISPRS had a booth there. A list of meetings attended and members visited is contained in appendices 4 and 5.

6. Acknowledgement

I would like to acknowledge the great support from many people during my time as Secretary General. In the first place I would like to mention my colleagues from IPI. Besides Annette Radtke, who runs the ISPRS Headquarters in an outstanding manner and keeps on top of all daily matters in a way second to none, I would like to thank our IT guru Uwe Breikopf, who took over and solved technical problems in a perfect way whenever necessary.

The financial support for the salary of Annette Radtke, for travel and for consumables came from DFG - The German Science Foundation. Without their funding of 220,500€ over the four years, I would not have been able to carry out the job of ISPRS Secretary General virtually without the need

of funds from ISPRS. This very generous support is gratefully acknowledged.

I have also had excellent support from DGPF - the German Society of Photogrammetry, Remote Sensing and Geoinformation. DGPF supported ISPRS Headquarters with a considerable sum of 5,000€.

I would like to thank everybody within ISPRS who has interacted with me in one way or another, particularly all TCPs and WG officers and, of course, Council, with whom it was a real pleasure to cooperate in a spirit of real teamwork. I also need to mention Markus Englich, the ISPRS web master. I have never had the possibility to work with somebody so fast and reliable, so knowledgeable both in terms of ISPRS matters and technical implementation, and yet so modest and helpful. Without him the web would not be half of what it actually is. Last, but not least, I would like to acknowledge the advice of previous ISPRS presidents and Council members, in particular Gottfried Konecny, John Trinder and Ian Dowman, who always had the answer when a question arose - which it did many times.

There is a lot of effort involved in the job of Secretary General but the rewards from working with such a dedicated and stimulating group of people makes it all worthwhile, indeed. Finally, I would like to thank all members of the Society and the supporting organisations who have assisted me so willingly during the past four years. Without their help I could not have carried out the job.

Christian Heipke, Secretary General

List of Appendices

Appendix 1: Council and Joint Meetings with Technical Commission Presidents 2012 - 2016

Appendix 2: ISPRS Events and Published Proceedings 2012 - 2016

Appendix 3: ISPRS Individual Members per Country/Region as of May 31, 2016

Appendix 4: Events Attended by Secretary General 2012-16

Appendix 5: ISPRS Members Visited by Secretary General 2012-16

Appendix 1: ISPRS Council and Joint Meetings 2012-2016

Regular Meetings

No.	Date	Location	Host (Meeting)	Attendees
1	Sept. 2, 2012	Melbourne, AUS	Congress	Joint Meeting with TCPs
2	Dec. 3-7, 2012	Chengdu, China	Southwest Jiaotong University	Joint Meeting with TCPs
3	May 9-11, 2013	Hannover, GER	Leibniz Universität Hannover	Council
4	Nov. 10-14, 2013	Antalya, Turkey	TU Istanbul (GSW 2013)	Joint Meeting with TCPs
5	Apr. 15-17, 2014	Novosibirsk, RUS	Siberian State Academy of Geodesy (Interexpo – GeoSIBIR)	Council
6	Dec. 8-12, 2014	Hyderabad, IND	National Remote Sensing Centre (Com. VIII Symposium)	Joint Meeting with TCPs
7	Mar. 30-Apr. 2, 2015	Newcastle, UK	Newcastle University	Council, Ian Dowman (ISAC), Gunter Schreier (IPAC)
8	July 7-10, 2015	Prague, CZ	Congress Director	Joint Meeting with TCPs, George Vosselman (IPC), Franz Leberl (I ² AC), Ian Dowman (ISAC), Ursa Kanjir (SC), Markus English (Webmaster)
9	Jan. 7-9, 2016	Beijing, China	National Geomatics Centre of China (NCGG)	Council, Hussein Farah, (African Reg. Rep), Mario Hernandez (Latin American Reg. Rep.)
10	Mar. 15-18, 2016	Dubai, UAE	Dubai Municipality	Joint Meeting with TCPs
11	July 9-10, 2016	Prague, CZ	Congress Director	Council

Teleconferences and Informal Meetings

No.	Date	Location	Host	Attendees
1	Oct. 9, 2012	Telecon		Cnl
2	Mar 7, 2013	Telecon		Cnl
3	Aug. 6, 2013	Telecon		Cnl
4	Sept. 9, 2013	Stuttgart, GER	Uni. Stgt. (Phowo)	Cnl, 2 nd VP via Telecon
5	Feb. 12, 2014	Vienna, AUT	TU Vienna	Cnl, Pres. and 2 nd VP via Tel.
6	May 15, 2014	Suzhou, China	NGCC (C IV Symp.)	Cnl

7	Apr. 24, 2015	Telecon		Cnl
8	Sept. 9, 2015	Stuttgart, GER	Uni. Stgt. (Phowo)	Cnl
9	Sep. 28, 2015	La Grande Motte, F	IGN (GSW 2015)	Cnl, Pres. via Skype
10	Feb. 17, 2016	Munich, GER	TU Munich	Cnl, Pres. and 2 nd VP via Tel.

Appendix 2: ISPRS Events and Publications 2012-2016

Event	Date/Place	Publication
WG V/4 3D-ARCH 2013 - 3D Virtual Reconstruction and Visualization of Complex Architectures	25-26 Feb. 2013 Trento, ITALY	Archives Vol. XL-5/W1
WG V/3 The Role of Geomatics in Hydrogeological Risk	27-28 Feb. 2013 Padua, ITALY	Archives Vol. XL-5/W3
ICWG IV/II/VIII The 3rd International Workshop on High Resolution Global Land Cover Mapping	27-28 April 2013 Beijing, CHINA	-
WG IV/2 ISPRS Workshop Global Geospatial Information	25 April 2013 Novosibirsk, RUSSIA	-
WG I/4, III/4, IV/2, VII/2 ISPRS Hannover Workshop 2013 - High-Resolution Earth Imaging for Geospatial Information 2013	21-24 May 2013 Hannover, GERMANY	Archives Vol. XL-1/W1
WG III/4 VCM 2013 - ISPRS International Workshop on 3D Virtual City Modeling	28-31 May 2013 Regina, CANADA	Annals Vol. II-3/W1
WG IV/7 UDMS 2013 - 29th Symposium of the Urban Data Management Society	29-31 May 2013 London, UK	Archives Vol. XL-4/W1
WG II/1, II/2, II/4, II/6, IC WG II/IV 8th International Symposium on Spatial Data Quality	30 May - 1 June 2013 HONG KONG	Archives Vol. XL-2/W1
WG II/7 Joint special session: Spatial Approaches for Transportation Decision-Making	14 Aug. 2013 Shenzhen, CHINA	-
WG VII/6 3rd International Workshop on Image and Data Fusion	20-22 Aug. 2013 Antu, CHINA	Archives Vol. XL-7/W1
WG VIII/2 2nd Symposium on Advances in Geospatial Technologies for Health	25-29 Aug. 2013 Arlington, Virginia, USA	-

TC V XXIVth CIPA Heritage Documentation Symposium	2-6 Sept. 2013 Strasbourg, FRANCE	Archives Vol. XL-5/W2 Annals Vol. II-5/W1
ICWG I/Vb UAV-g	4-6 Sept. 2013 Rostock, GERMANY	Archives Vol. XL-1/W2
WG VII/5 UAV-based Remote Sensing Methods for Monitoring Vegetation	09-10 Sept. 2013 Cologne, GERMANY	-
WG VI/6 International Workshop on Advanced Geospatial Technologies for Sustainable Environment and Culture	12-13 Sept. 2013 Pokhara, NEPAL	-
WG I/4, II/4 SMPR 2013 - 2 nd International Conference on Sensors and Models in Photogrammetry and Remote Sensing	5-8 Oct. 2013 Tehran, IRAN	Archives Vol. XL-1/W3
WG IV/8 Advances and Activities in Planetary Mapping and Databases	11-12 Oct. 2013 Moscow, RUSSIA	-
WG VII/1 Joint Workshop with ACRS	20-24 Oct. 2013 Bali, INDONESIA	-
WG I/4, I/5 International Symposium on Satellite Mapping Technology and Application	6-8 Nov. 2013 Nanjing, CHINA	-
WG IV/5 ISPRS WebMGS 2013 & DMGIS 2013 Topics: Global Spatial Grid & Cloud-based Services	11-12 Nov. 2013 Xuzhou, CHINA	Archives Vol. XL-4/W2
Joint ISPRS Conference on Serving Society with Geoinformation (Geospatial Week 2013) WG III/3 - Image Sequence Analysis for Object and Change Detection WG V/3, I/2, I/3, III/2, V/2, VII/7, ICWG I/Va Laser Scanning 2013 WG III/4, ICWG III/VII CMRT13 - Object Extraction for 3D City Models, Road Databases and Traffic Monitoring	11-17 Nov. 2013 Antalya, TURKEY	Archives Vol. XL-7/W2
	11 Nov. 2013 Antalya, TURKEY	Annals Vol. II-3/W2
	11-13 Nov. 2013 Antalya, TURKEY	Annals Vol. II-5/W2
	12-13 Nov. 2013 Antalya, TURKEY	Annals Vol. II-3/W3
WG VIII/1, IV/4 Geospatial Data for Disaster and Risk Reduction	21-22 Nov. 2013 Hyderabad, INDIA	-
WG II/2 3D GeoInfo 2013 - 8th 3D GeoInfo Conference & WG II/2 Workshop on Advances in Multi-Scale and Multi-Dimensional Modeling and Data Representation	27-29 Nov. 2013 Istanbul, TURKEY	Archives Vol. XL-2/W2 Annals Vol. II-2/W1
ICWG IV/II/VIII ISPRS/IGU/ICA/GSC Joint Workshop	5-6 Dec. 2013	Archives Vol. XL-4/W3

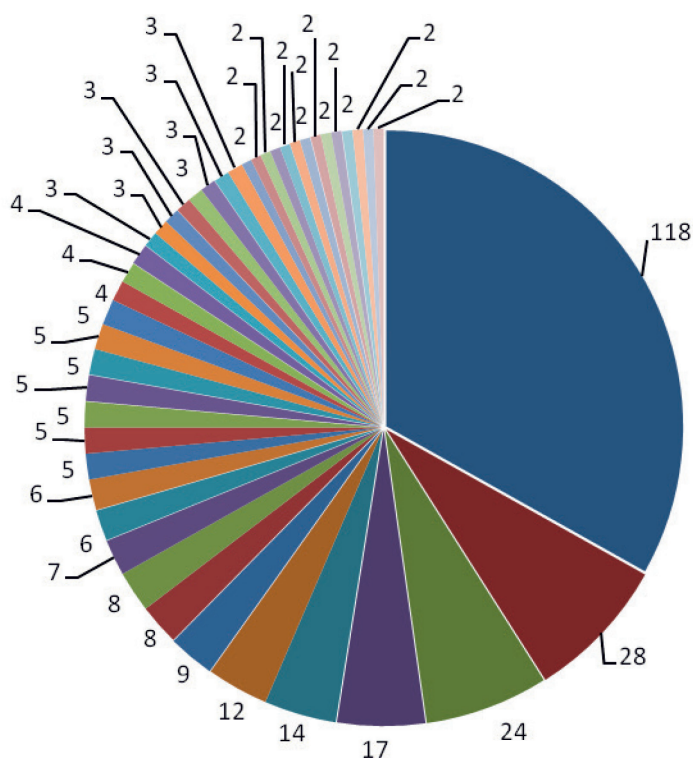
Borderlands Modelling and Understanding for Global Sustainability	Beijing, CHINA	
WG VIII/7 Multi Scale Forest Biomass Assessment and Monitoring of Hindu Kush-Himalayan Ecosystem using Geospatial Systems	9-10 Dec. 2013 Kathmandu, NEPAL	-
TC V Low-Cost 3D – Sensors, Algorithms, Applications	10-11 Dec. 2013 Berlin, GERMANY	-
WG IV/7, WG I/2, ICWG II/IV, WG III/2, WG IV/6 ISPRS Acquisition and Modelling of Indoor and Enclosed Environments 2013	11-13 Dec. 2013 Cape Town SOUTH AFRICA	Archives Vol. XL-4/W4 Annals Vol. II-4/W1
WG VI/2 Innovative Learning Tools 2013 Strategies for Earth Resources Management	20-21 Dec. 2013 Ahmedabad, INDIA	-
ICWG III/I EuroCOW 2014, the European Calibration and Orientation Workshop	12-14 Feb. 2014 Castelldefels, SPAIN	Archives Vol. XL-3/W1
TC IV ISPRS Technical Commission IV Symposium	14-16 May 2014 Suzhou, CHINA	Archives Vol. XL-4 Annals Vol. II-4
WG II/3 International Workshop on Spatial Analysis and Data Mining (SADM 2014)	17-18 May 2014 Wuhan, CHINA	-
TC VI ISPRS Technical Commission VI Symposium	19-21 May 2014 Wuhan, CHINA	Archives Vol. XL-6 Annals Vol. II-6
TC V ISPRS Technical Commission V Symposium	23-25 June 2014 Riva del Garda, ITALY	Archives Vol. XL-5 Annals Vol. II-5
WG VIII/7 Int. Conf. on Intelligent Earth Observing and Applications	26-27 June 2014 Guilin, CHINA	-
TC III ISPRS Technical Commission III Symposium	5-7 Sept. 2014 Zurich, SWITZERLAND	Archives Vol. XL-3 Annals Vol. II-3
TC VII ISPRS Technical Commission VII Symposium	29 Sept. - 2 Oct. 2014 Istanbul, TURKEY	Archives Vol. XL-7 Annals Vol. II-7
TC II ISPRS Technical Commission II Symposium	6-8 Oct. 2014 Toronto, CANADA	Archives Vol. XL-2 Annals Vol. II-2
WG II/1, WG II/4, ICWG II/IV, WG IV/7 The 1st ISPRS International Conference on Geospatial Information Research	15-17 Nov. 2014 Tehran, IRAN	Archives Vol. XL-2/W3

TC I ISPRS Technical Commission I Symposium	17-20 Nov. 2014 Denver, Colorado, USA	Archives Vol. XL-1 Annals Vol. II-1
ICWG I/Va, WG I/3 The Second International Conference on Computer Vision in Remote Sensing (CVRS2014)	17-20 Nov. 2014 Denver, Colorado, USA	-
TC V Low Cost 3D (LC3D), Sensors, Algorithms, Applications	2-3 Dec. 2014 Berlin, GERMANY	-
TC VIII ISPRS Technical Commission VIII Symposium	9-12 Dec. 2014 Hyderabad, INDIA	Archives Vol. XL-8 Annals Vol. II-8
WG V/4, CIPA 3D-Arch 2015 – 3D Virtual Reconstruction and Visualization of Complex Architectures	25-27 Feb. 2015 Avila, SPAIN	Archives Vol. XL-5/W4
WG VII/5, VII/7 Workshop on Laser Scanning Applications	16 March 2015 Cologne, GERMANY	-
TC I, III PIA15+HRIGI15 – Joint ISPRS conference	25-27 March 2015 Munich, GERMANY	Archives Vol. XL-3/W2 Annals Vol. II-3/W4
WG VIII/5 Energy and Geological Applications: Regional Symposium (Asia)	28-31 March 2015 KUWAIT	-
TC V CIPA, Underwater 3D Recording and Modeling	16-17 April 2015 Piano di Sorrento, ITALY	Archives Vol. XL-5/W5
WG IV/2 Global Geospatial Information and Global Land Cover/Land Use Mapping	21 April, 2015 Novosibirsk, RUSSIA	-
ICWG I/Va, WG I/3 The Third International Summer School on Mobile Mapping Technology (MMT 2015 Summer School)	26-30 April 2015 Xiamen, CHINA	-
TC VII/3 36th International Symposium on Remote Sensing of Environment	11-15 May 2015 Berlin, GERMANY	Archives Vol. XL-7/W3
WG IV/7, WG V/4 Indoor-Outdoor Seamless Modelling, Mapping and Navigation	21-22 May 2015 Tokyo, JAPAN	Archives Vol. XL-4/W5
WG V/5, WG III/3 Photogrammetric techniques for video surveillance, biometrics and biomedicine	25-27 May 2015 Moscow, RUSSIA	Archives Vol. XL-5/W6
WG II/4 ISPRS Workshop on Trust in Spatial Data and Validation of Global Land Cover Mapping	5-7 June 2015 Shanghai, CHINA	-
International Workgroup on Supporting Future Earth	9-10 June 2015	-

with Geo-information	Beijing, CHINA	
WG VI/1, WG VI/2 & WG VI/3 ISPRS Workshop of Commission VI 1-3, Advances in Web-based Education Services	18-19 June 2015 Berlin, GERMANY	Archives Vol. XL-6/W1
WG IV/5 WebMGS 2015	1-3 July 2015 Sardinia, ITALY	Archives Vol. XL-4/W7
ICWG IV/II ISPRS International Workshop on Spatiotemporal Computing	13-15 July 2015 Fairfax, Virginia, USA	Annals Vol. II-4/W2
WG VII/6 International Workshop on Image and Data Fusion	21-23 July 2015 Kona, Hawaii, USA	Archives Vol. XL-7/W4
ICWG I/Vb ISPRS UAV-g2015	30 Aug. - 2 Sept. 2015 Toronto, CANADA	Archives Vol. XL-1/W4 Annals Vol. II-1/W1
TC V 25th International CIPA Symposium 2015	31 Aug. - 4 Sept. 2015 Taipei, TAIWAN	Archives Vol. XL-5/W7 Annals Vol. II-5/W3
WG IV/8 Planetary Mapping and Spatial Databases	24-25 Sept. 2015 Berlin, GERMANY	-
ISPRS Geospatial Week 2015 LS15 - Laser Scanning 2015 ISSDQ15 - The 9th International Symposium on Spatial Data Quality GeoUAV GiD4M - The 10th International Conference on Geo-information for Disaster Management GeoHyper15 - Image spectroscopy – Concepts, Algorithms, and Applications CMRT15 - City Models, Roads and Traffic 2015 ISA15 - Image Sequence Analysis 2015 GeoBigData15 - Managing, Processing, and Rendering Remotely-Sensed Big Geospatial Data GeoVIS15: Rendering and Cognition with Images and Hybrid Visualizations	28-30 Sept. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3 Annals Vol. II-3/W5
	29-30 Sept. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3 Annals Vol. II-3/W5
	1-2 Oct. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3
	1-2 Oct. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3
	1-2 Oct. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3
	1-2 Oct. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3 Annals Vol. II-3/W5
	1 Oct. 2015, La Grande Motte, FRANCE	Annals Vol. II-3/W5
	1-2 Oct. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3 Annals Vol. II-3/W5
	1 Oct. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3 Annals Vol. II-3/W5
	1 Oct. 2015, La Grande Motte, FRANCE	Archives Vol. XL-3/W3 Annals Vol. II-3/W5

ISPRS WG II/2 ISPRS Joint International Geoinformation Conference	28-30 Oct. 2015 Kuala Lumpur, MALAYSIA	Archives Vol. XL-2/W4 Annals Vol. II-2/W2
WG I/5 PSIVT2015 Workshop - Passive and Active Electro-Optical Sensors for Aerial & Space Imaging	24 Nov. 2015 Auckland, NZ	-
ISPRS WG I/4 SMPR 2015 - International Conference on Sensors and Models in Photogrammetry and Remote Sensing	23-25 Nov. 2015 Kish Island, IRAN	Archives Vol. XL-1/W5
WG IV/4 and FIG Commission 2 International Joint Workshop on Strengthening Opportunities for Professional Education and Spatial Data Infrastructure Development	25-27 Nov. 2015 Kathmandu, NEPAL	-
WG I/5 Low Cost 3D (LC3D), Sensors, Algorithms, Applications	1-5 Dec. 2015 Berlin, GERMANY	-
WG II/8, ICWG IV/II/VIII ISPRS Joint Workshop on "Mobility and Land Cover Change Mapping"	5-6 Dec. 2015 Changsha, CHINA	-
WG VIII/1 Geospatial Technology for Disaster Management & Weather Forecasting	16-18 Dec. 2015 Jaipur, INDIA	-
ISPRS TC V LowCost3D (LC3D), Sensors, Algorithms, Applications	1-2 Dec. 2015 Berlin, GERMANY	XL-5/W8
ICWG III/I EuroCOW 2016, the European Calibration and Orientation Workshop	10-12 Feb. 2016 Lausanne, SWITZERLAND	XL-3/W4
WG IV-3 Advances in global DEMs and Tools for assessing their quality, usability and interoperability	14-16 March 2016 TAIWAN	
International Summer School on Mobile Mapping Technology 2016	4-8 May 2016 Hanoi, VIETNAM	

Appendix 3: ISPRS Individual Members per Country/Region as of May 31, 2016



India	USA	Nigeria	Turkey	Austria	Other	Malaysia
Germany	Australia	Colombia	Canada	Pakistan	Bangladesh	Kenya
UK	Mongolia	Phillipines	China	Saudi Arabia	Indonesia	Jamaica
Netherlands	Afghanistan	Brazil	Hungary	Iran	Italy	Serbia
Sudan	Russia	Algeria	Argentina	Azerbaijan	Bulgaria	Jordan
Morocco	Oman	South Africa	Sweden	UAE	Nepal	Egypt
Ethiopia	Japan					

Total members per country, May 31, 2016: 356

Afghanistan:	3	Egypt:	2	Mexico:	1	Sweden:	2
Algeria:	2	Ethiopia:	2	Mongolia:	5	Switzerland:	1
Australia:	8	Finland:	1	Morocco:	2	Turkey:	17
Austria:	14	Germany:	8	Nepal:	2	UAE:	2
Argentina:	2	Ghana:	1	Netherlands:	4	United Kingdom:	5
Azerbaijan:	2	Hungary:	3	Nigeria:	24	USA:	28
Bangladesh:	5	India:	118	Oman:	2	Venezuela:	1
Brazil:	3	Indonesia:	4	Pakistan:	6		
Bulgaria:	2	Iran:	3	Phillipines:	5		
Canada:	6	Israel:	1	Romania:	1		
Chile:	1	Italy:	3	Russia:	3		
China Taipei:	1	Jamaica:	4	Saudi Arabia:	5		
China:	5	Japan:	2	Serbia:	3	June 2014:	51
Colombia:	7	Jordan:	2	Slovenia:	1	December 2014:	175
Denmark:	1	Kenya:	5	South Africa:	2	June 2015:	298
Dominican Rep.:	1	Malaysia:	9	Sudan:	3	December 2015:	394

Appendix 4: Events Attended by Secretary General 2012-2016

No.	Date	Location	Event	Task
1	Nov. 6, 2012	Pattaya, Thailand	ACRS 2012	Participation
2	Dec. 8-12, 2012	Jeddah, Saudi Arabia	ISO TC 211	Key note
3	Mar. 18, 2013	Paris, France	IAA Annual Day	Participation
4	Mar. 24-28, 2013	Baltimore, USA	ASPRS Annual Conference	Participation
5	May 21-24, 2013	Hannover, Germany	ISPRS Hannover Workshop	ISPRS Greetings, Paper
6	April 24-26, 2013	Novosibirsk, Russia	Interexpo GEO-Siber 2013	ISPRS Greetings, Paper
7	May 13-16, 2013	Rotterdam, NL	Geospatial World Forum	Participation
8	Aug. 25-30, 2013	Dresden, Germany	Internat. Cartographic Conference	ISPRS Greetings
9	Sept. 2-6, 2013	Potsdam, Germany	IAG Scientific Assembly	JBGIS Greetings
10	Sept. 2-5, 2013	Rostock, Germany	uav_g	ISPRS Greetings
11	Sept. 3, 2013	Vienna, Austria	VALID Booklet Launch. UN-OOSA	Participation
12	Sept. 9-13, 2013	Stuttgart, Germany	Phowo 2013	Participation
13	Oct. 3-7, 2013	Tehran, Iran	SMPR	Key Note
14	Oct. 8-10, 2013	Essen, Germany	Intergeo	Sust. Member Meeting
15	Oct. 25, 2013	Gävle, Sweden	EuroSDR Board Meeting	Paper
16	Nov. 4-8, 2013	Addis Ababa, Ethiopia	AfricaGIS 2013	Participation
17	Nov 13-16, 2013	Antalya, Turkey	ISPRS Geospatial Week	ISPRS Greetings
18	Nov 17-18, 2013	Antalya, Turkey	ICSU GeoUnions Meeting	Participation
19	Feb. 12, 2014	Vienna, Austria	UN OOSA	Participation
20	Mar 26-28, 2014	Hamburg, Germany	DGPF Annual Meeting	ISPRS Greetings
21	April 15-17, 2014	Novosibirsk, Russia	Interexpo GeoSibir 2104	Paper
22	April 29, 2014	Istanbul, Turkey	Intergeo Eurasia	Key Note
23	May 14-16, 2014	Suzhou, China	ISPRS Commission IV Symp.	ISPRS Greetings, Paper
24	May 19-21, 2014	Wuhan, China	ISPRS Commission VI Symp.	ISPRS Greetings, Paper
25	June 5, 2014	Castellon, Spain	AGILE Annual Conference	Participation, MoU
26	June 6, 2014	Montpellier, France	SFPT Workshop	Paper
27	June 23-25, 2014	Riva, Italy	ISPRS Commission V Symp.	ISPRS Greetings
28	Aug 28-Sept 3, 14	Auckland, New Zealand	ICSU General Assembly	Participation
29	Sep 5-7, 2014	Zürich, Switzerland	ISPRS Commission III Symp.	ISPRS Greetings
30	Sep 29-Oct 2, 14	Istanbul, Turkey	ISPRS Commission VII Symp.	ISPRS Greet. Key Note
31	Oct. 3, 2014	Zagreb, Croatia	Int. Cadastre Workshop	ISPRS Presentation
32	Oct 7-9, 2014	Berlin, Germany	Intergeo	Sust. Member Meeting
33	Oct 27-31, 2014	Nay Pyi Taw, Myanmar	ACRS 2014	Key Note
34	Nov 17-20, 2014	Denver, USA	ISPRS Commission I Symp.	ISPRS Greetings
35	Dec 9-14, 2014	Hyderabad, India	ISPRS Commission VIII Symp.	ISPRS Greetings
36	Feb. 16-17, 2015	Dubai, UAE	GRASF 2015	Key Note
37	Mar 16-18, 2015	Cologne, Germany	DGPF Annual Meeting	ISPRS Greetings, Paper
38	Mar 25-27, 2015	Munich, Germany	Phot. Image Analysis + HRIGI	ISPRS Greetings, Paper

39	Apr 25-29, 2015	Joao Pessoa, Brazil	Bras. Remote Sensing Symposium	Key Note
40	May 11-13, 2015	Berlin, Germany	36th Int. Symposium of Remote Sensing of Environment (ISRSE)	ISPRS Greetings
41	May 12, 2015	Paris, France	SFPT Annual Meeting	Participation
42	May 25-29, 2015	Lisbon, Portugal	Geospatial World Forum	Presentation
43	Sept 7-11, 2015	Stuttgart, Germany	Phowo 2015	ISPRS Greetings
44	Sep.15-17, 2015	Stuttgart, Germany	Intergeo	Sust. Member Meeting
45	Sep. 28-Oct. 2, 15	La Grande Motte, F	ISPRS Geospatial Week 2015	ISPRS Greetings, Paper
46	Oct. 16, 2015	Hanoi, Vietnam	Int. Seminar P&RS	ISPRS Greet. Key Note
47	Oct. 19-23, 2015	Manila, Philippines	ACRS 2015	ISPRS Greetings, Paper
48	Oct. 23-24, 2015	Guilin, China	Int. Earth Observing and Appl. Symp.	Key Note
49	Jan. 17-19, 2016	Rijadh, Saudi Arabia	Int. Remote Sensing Conference	Key Note
50	Mar 29–Apr 1, 16	Santiago de Chile	LARS 2016	ISPRS Greetings
51	April 8, 2016	Stuttgart, Germany	Seminar “50 Years ipf, Uni Stuttgart”	ISPRS Greetings
52	April 11-15, 2016	Fort Worth, USA	ASPRS Annual Conference	ISPRS Greetings
53	May 24-25, 2016	Rotterdam, NL	Geospatial World Forum	Presentation
54	June 6-7, 2016	Geneva, CH	IAF - ITU GLIS 2016	Presentation
55	June 7-9, 2016	Berne, CH	Drei-Ländertagung (DGPF, OVG, SOGI)	Participation

Appendix 5: ISPRS Members Visited by Secretary General 2012-2016

No.	Date	Location	Member
1	Oct. 5, 2013	Tehran, Iran	Iran Space Center (Associate Member) and Basir Remote Sensing Institute (Sustaining Member)
2	Oct. 25, 2013	Gävle, Sweden	EuroSDR (Regional Member)
3	Nov. 2, 2013	Addis Ababa, Ethiopia	EIS Africa (Regional Member)
4	Mar 28, 2013	Hamburg, Germany	DGPF (Ordinary Member)
5	June 5, 2014	Castellon, Spain	AGILE (Regional Member)
6	June 26, 2014	Montpellier, France	SFPT (Ordinary Member)
7	Aug 15, 2014	Suva, Fiji	SPC/SOPAC (Regional Member)
8	Aug 29, 2014	Auckland, New Zealand	LINZ (Ordinary Member)
9	Dec. 12, 2015	Dubai, UAE	University of UAE (Ordinary Member)
10	Mar 18, 2015	Cologne, Germany	DGPF (Ordinary Member)
11	Apr 28, 2015	Joao Pessoa, Brazil	INPE (Sustaining Member)
12	Apr 30, 2015	Montevideo, Uruguay	SGM (Ordinary Member) and IPGH (Regional Member)
13	May 7, 20105	Rio de Janeiro, Brazil	SBC (Ordinary Member)
14	May 12, 2015	Paris, France	SFPT (Ordinary Member)
15	Oct. 16, 2015	Hanoi, Vietnam	VAST (ordinary Member) and VGCR (Sustaining Member)

16	Oct. 20, 2015	Manila, Philippines	PGRSS (Ordinary Member)
17	Mar 29, 2016	Santiago de Chile	SAF (Associate Member)
18	Mar 30, 2016	Santiago de Chile	IGM (Ordinary Member)
19	April 1, 2016	Bogotá, Colombia	SELPER Colombia (Ordinary Member), IGAC (Associate Member), and SELPER International (Regional Member)
20	April 11, 2016	Fort Worth, USA	ASPRS (Ordinary Member)

Report of ISPRS Treasurer Jon Mills to the General Assembly for the term 2012-2016

Introduction and background

Opening comments

It is my pleasure to present a financial summary for the last four years of ISPRS activity. In 2012, my predecessor opened his quadrennial report with the observation that the “2008 to 2012 Congress Period has been one of remarkable challenge due to the world economic problems with sustained progress for ISPRS goals.” Arguably the 2012 to 2016 Congress Period has been even more challenging, with financial austerity, tax issues and banking concerns commonplace across the globe. Despite the challenging global financial environment, I am pleased to report that it has once again been a largely successful quadrennial period for ISPRS economically.

In a slight departure to previous Treasurer Reports, this report focusses primarily on the four Financial Years prior to the Congress year (i.e. 2012, 13, 14 and 15, not 2013, 14, 15 and 16). The reason for this is that (a) these are the Financial Years that are formally annually reported by the incumbent ISPRS Treasurer to the

ISPRS Financial Commission as well as the State of Maryland where ISPRS is incorporated; (b) estimates for the Congress year in previous reports have been shown to be somewhat unreliable (being written well

ahead of the main event of the ISPRS calendar, the quadrennial Congress), and (c) such reports neglected to ever report properly on the prior Congress year (e.g. Financial Year 2008 in the 2012 report). To enable continuity with previous two Treasurer’s Reports, Appendix I includes the “cost of doing business” calculation of the 2008 and 2012 reports. Appendix II includes the 2016 budget and quarter one (1st January to 31st March) statement of income and expenditure for 2016.

Financial summary, 1st January 2012 to 31st December 2015

Income and expenditure, 2012-2015

Income and expenditure details for the four years from 1st January 2012 to 31st December 2015 are provided in Table 1. It can be seen that the Society incurred c. CHF 698k in expenses during this four year period, returning a small net operating surplus of c. CHF 31k. Corresponding figures for the previous four year period (2007-2011) showed CHF 779k expenditure with CHF 104k surplus, so whilst the Society has generally cost less to run (at least in terms of directly incurred costs) over the last four years, income has also reduced (from CHF 883k to CHF 730k). A number of reasons for this are explained in Section 4.

	2012	2013	2014	2015	Total
Income (CHF)	202,409	228,751	154,513	144,103	729,776
Expenditure (CHF)	196,089	205,964	159,588	136,763	698,404
Net surplus (CHF)	6,320	22,787	(5,075)	7,340	31,372

Table 1: ISPRS income and expenditure, 2012 to 2015.

Figure 1 presents historical reported income and expenditure for each Financial Year from 1st January 2000 through to 31 December 2015. Comparisons between Congress Periods should be conducted with caution due to variations in Treasurer's Reports and periods (e.g. the fiscal year was changed from 1st April - 31st March to 1st January – 31st December in 2004), different investments that may be made both into (e.g. revenue collected for JBGIS initiatives) and out (e.g. transfers to TIF) of the Society's accounts in any

particular four year period, and due payments falling outside any particular quadrennial period (e.g. the dividend for the 2012 Congress was paid to ISPRS in 2013). The linear trend lines indicates a gradual convergence of income and expenditure, but it can be seen that the Society has generally been able to balance its books on a year by year basis (note, the 2014 negative balance of CHF 5,075 was caused by a conscious Council decision to make a substantive investment in Scientific Initiatives).

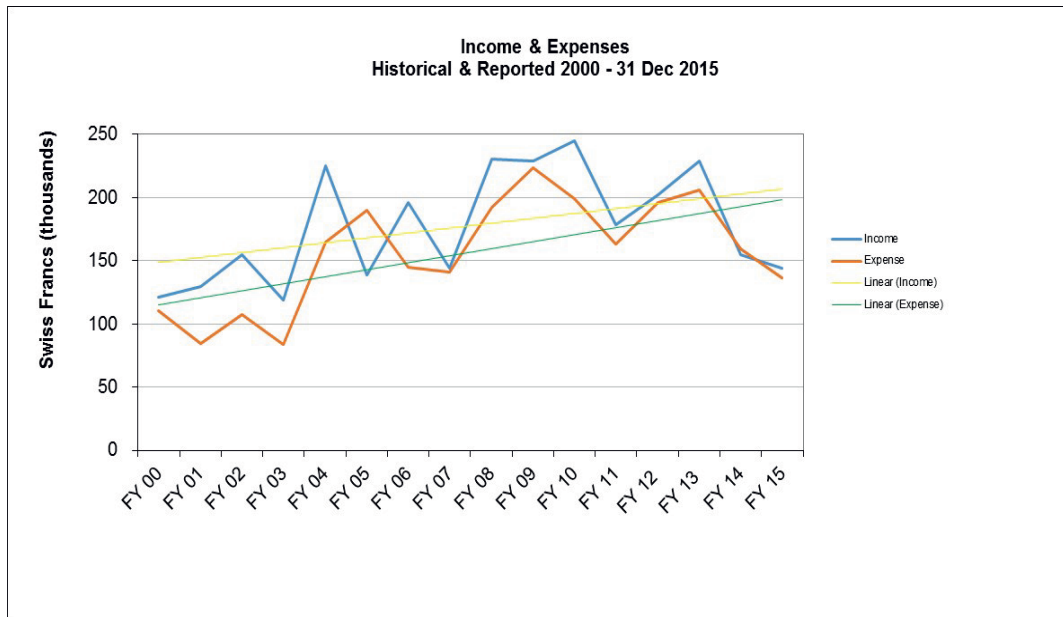


Figure 1: ISPRS income and expenditure, 2000 to 2015.

The “cost of doing business” calculation (see Appendix I), however, also provides an estimate for in-kind support received by ISPRS and estimates Society running costs at c. CHF 907k for the 2012-16 Congress Period. The direct running costs for 2012-16 were greatly helped by the Secretary General's successful application to the DFG, German Research Foundation, to cover the cost of a part-time secretary and all travel / subsistence made by the Secretary General's office throughout the period. The President was able to call on similar support from his employer during the same period. Council continues to make maximum use of Skype communication to minimise expenses in this regard, and all Council Members continue to call on alternate funds to support ISPRS travel wherever possible to minimise the impact on the Society's accounts. These actions have helped reduce expenditure over that of 2008-12, whilst simultaneously facilitating substantial investment in Scientific Initiatives (> CHF 80k through two calls made in 2014 and 2015).

Investments

The Society's investments yielded CHF 21,070 in dividends during the 2012 to 2015 period. These were

re-invested in the bond funds from which they were earned. The total value of the Society's investments on 31 December 2015 was CHF 558,964, which shows an average annual growth of 3.2% from the 31st December 2011 valuation of CHF 495,263. Figure 2 shows values for each of the investment funds from 2005 to 2015. Bond fund #278 856 (green line) was transferred in its entirety to The ISPRS Foundation (TIF) in 2006, thus the zero value in 2007 onwards. Strategy fund #279 211 (red line) declined in 2006 because 251 units were transferred to TIF. The USD bond fund #359 540 (blue line) experienced a decrease in 2010 due to an advance to the 2012 Congress. The return of the loan, plus the healthy dividend paid to the Society from the 2012 Congress meant that the 2016 Congress loan of CHF 100k could be made without resorting to the custody accounts for further support. On 15th January 2015, the Swiss National Bank announced that it would no longer hold the Swiss Franc at a fixed exchange rate with the Euro. One result of this was that Bond fund #278 859 (purple line) performed particularly poorly in 2015 due to exchange rate variations between the EUR and CHF.

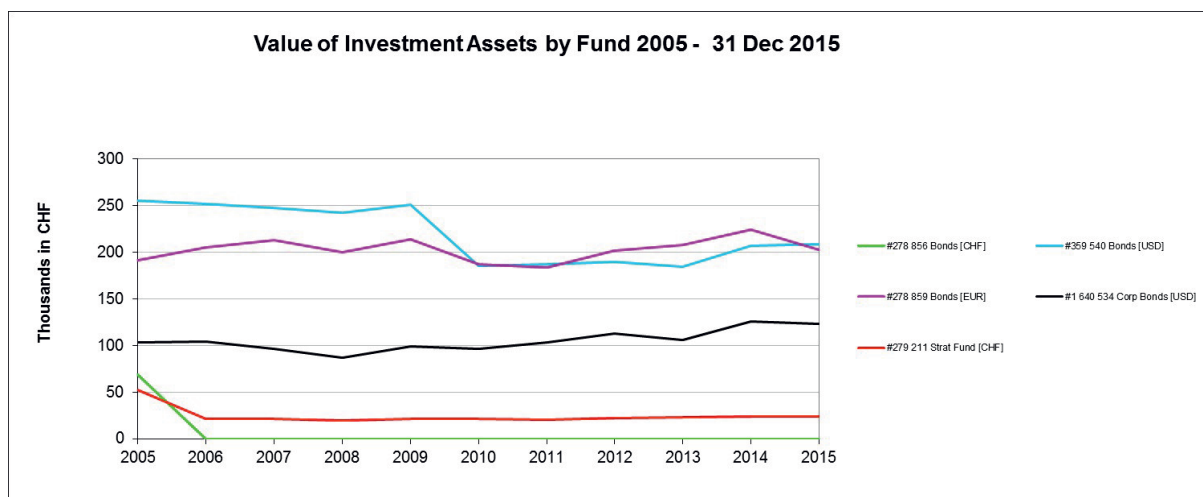


Figure 2: Value of ISPRS investment funds, 2005-2015.

ISPRS net worth, 31st December 2015

Table 2 provides a summary of ISPRS assets as of 31st December 2015. The interest free loan to the Czech Republic was returned to ISPRS on 12 April 2016. The

Society's net worth of CHF 718k is an increase of 7 % over that of 31st December 2011 and is roughly equivalent (c. 3% in excess) to the expenditure directly incurred in running the Society over the last four years.

ITEM	Value	Value
	(EUR, USD, CHF, GBP)	(CHF)
CASH		
Euro #.7EM	21,131.13	22,955.76
USD #.60C	22,605.29	22,598.96
CHF #.01E	9,219.21	9,219.21
Halifax local operating A/C	2,816.75	4,157.31
Total Cash		58,931.24
INVESTMENTS		
# 359540 Bonds [USD]		209,042.96
# 278859 Bonds [EUR]		202,649.62
# 1640534 Corp Bonds [USD]		123,590.17
# 279211 Strat Fund [CHF]		23,681.68
Total Investments		558,964.43
LOANS		
Loan to 2016 Congress		100,000.00
Total Loans		100,000.00
TOTAL ASSETS		717,895.67

Table 2: ISPRS assets, as of 31st December 2015.

Financial operations 2012-16

Accounting system

The ISPRS accounting system consists of a hybrid Microsoft Access database and Excel spreadsheets, with origins dating back to the 2000-2004 Congress Period. This system requires maintenance by both the

Secretary General and the Treasurer, and it contains functions that require time consuming "work-around" solutions. Several incremental developments have taken place in this Congress Period, including the streamlining of bank reconciliation / accounting spreadsheets in Excel via a macro, as well as the production of a weekly Treasurer's report via a Python script to provide the Secretary General's office with up-to-date information on membership subscriptions.

Incorporation

The Society's incorporation in the state of Maryland, USA as a not-for-profit (that is, tax exempt) organization has worked reasonably well for a Treasurer not resident in the USA. It adds additional responsibility to the ISPRS Treasurer, and requires professional assistance in the USA to complete and submit annual financial and property forms, most notably the IRS-990 and the State of Maryland Personal Property forms. As with changes in banking regulations, there are changes in these forms each year that, if not submitted, can result in ISPRS being "out-of-compliance" and losing its tax-exempt status.

International banking

Day-to-day banking with the ISPRS bank, UBS in Zurich, has generally worked well throughout the Congress Period. E-banking is simple and efficient, helping to minimise the cost of transactions. However, high-profile publicity surrounding various tax scandals, and the subsequent response of governments towards offshore banking has created significant complications for the ISPRS relationship with UBS at various points over the last four years as international banking regulations have been increasingly restrictive. In particular, the lack of a permanent address for ISPRS Headquarters, the Society's incorporation in the USA State of Maryland, and the nomadic movements of the ISPRS Treasurer every four years have proved problematic in establishing a stable banking basis in Switzerland. The situation is (at least temporarily) resolved though the recent transfer of ISPRS to the "Private Wealth" section of UBS, under the guidance of the bank's UK client advisor (the incumbent Treasurer being resident in the UK).

Credit card payments

In 2008, Council authorized the adoption of credit card payments for annual member subscriptions. Because the Society has no official address in Switzerland this was implemented by the past-Treasurer through a Paypal account system, with payments allowed in USD

only. Transfer of the existing ISPRS USA Paypal account to a UK-based Treasurer in 2012 proved impossible to implement, and establishment of a new Paypal account meant that payments could only be accepted in GBP, which is not a recognised ISPRS currency. As a result, a new solution was implemented via Copernicus GmbH, which sets up a new record for ISPRS Members in December of each year. Credit card payments can be made on-line by all categories of member through a portal provided on the ISPRS website. It is currently used by a handful of members to pay their subscription fees on an annual basis.

Financial policy

In 2009 Council approved a formal Financial Policy for managing ISPRS finances, assets, and business practices. In lieu of an audit, the ISPRS Financial Commission reviews the Treasurer's Annual Report and supporting spreadsheets which are then forwarded to the Society's accountants in the USA for completion of the relevant annual financial and property forms. All policies were reviewed and updated during the most recent Congress Period, with the resultant documentation available from the Guidelines section of the ISPRS website.

Current ISPRS financial challenges and opportunities

Background

Core Society income is generated from four sources: membership subscriptions, revenue from key ISPRS meetings and from ISPRS publications, and dividends from ISPRS investments. The costs for ISPRS activities could also not be sustained without high levels of in-kind support from Ordinary and Sustaining members through the hosting of Council and Joint Meetings, award sponsorship, etc., and all contributors are to be heartily thanked for their support. Financial challenges and opportunities in the core source areas of ISPRS income are outlined below.

Membership subscription

Category	Total members		Paid up members (up to and including 2015)			
	No.	Collectable fees (CHF)	No.	No. as % of total	Fees collected (CHF)	Fees as % of total
OM	91	81190	50	54.9	67045	82.6
AM	13	4485	6	46.2	3105	69.2
RM	15	1725	9	60.0	1035	60.0
SM	61	51630	43	70.5	43305	83.9
Total	180	139030	108	60.0	114490	82.3

Table 3: Summary of ISPRS members and status by category (report dated 19 April 2016).

Table 3 provides details of the current membership by category, and the status of payments received up to and including Financial Year 2015, as of 19 April 2016. As at the reporting date, 108 members (60% of the 180 members across all categories) are paid up-to-date, representing 82% of the CHF 139k membership fees that are collectable annually. There is some considerable variation in the different member categories, ranging from 46% of Associate Members paid up, compared to 71% of Sustaining Members by number, and from 60% of Regional Member fees to 84% of Sustaining Member fees. It is worthy of note that ISPRS Council can, and does, revoke membership of known-defunct and non-active Sustaining Members, but removal of other member types requires General Assembly approval.

Figure 3 shows the amount of in-year arrears that remain outstanding since 2000 (where the figure diminishes to zero) as a percentage of members and fees due in 2015. Despite the best efforts of Council, which have included in-country missions to visit members in arrears, and an “arrears amnesty” for selected members, there has been a visible rise in the number of members unable to

pay since around 2008, and a step change increase in the uncollected fees since around 2010. Whilst previous Treasurer’s Reports have recommended that “for annual budget planning purposes, Council should expect that only about half of the members will pay their subscriptions” (ref. 2008 report), thereby providing evidence that this is not a new trend, it would appear that the global financial difficulties encountered since 2008 are increasingly impacting on the ability of members to remain in good standing with the Society.

This appears to be affirmed by Figure 4, which shows the membership fees (including any arrears) that have been collected in-year over the same time period, 2000-2015. A rolling four year average is presented to remove the noise created by members paying large amounts of arrears, etc. in any one year. Following a rise from the turn of the Century, payment of membership fees peaked in the quadrennial period 2004-08 at around CHF 126k per annum (cf: CHF 139k annual collectable fees), since when there has been a relatively steady negative trend to the CHF 119k average that was collected over the last four years. The CHF 476k collected in membership fees over the last four years represents 66% of ISPRS income for the period, so membership fees remain the life blood of the Society. Critically, any inability to pay no longer appears to be restricted to members in lower membership categories, with evidence that several “larger” ISPRS members are now also experiencing difficulties. There is anecdotal historical evidence to suggest that members in arrears often pay in the run-up to the quadrennial Congress (Ordinary Members, for example, lose their voting privileges and may be expelled from the Society for not settling their accounts), so it may prove that by the time of the General Assembly a more positive picture can be painted. However, the income that has reduced most markedly over the period 2008 to 2015 is from the Sustaining Membership, which has witnessed a reduction in fees collected from CHF 62k in 2008 to CHF 49k in 2015. The recent formation of the International Industrial Advisory Committee (IIAC) in part aims to reverse this trend. Historical membership fee collections are recorded in tabular form in Appendix III.



Figure 3: Percentage of fees outstanding and members in arrears by year, 2000-2015.

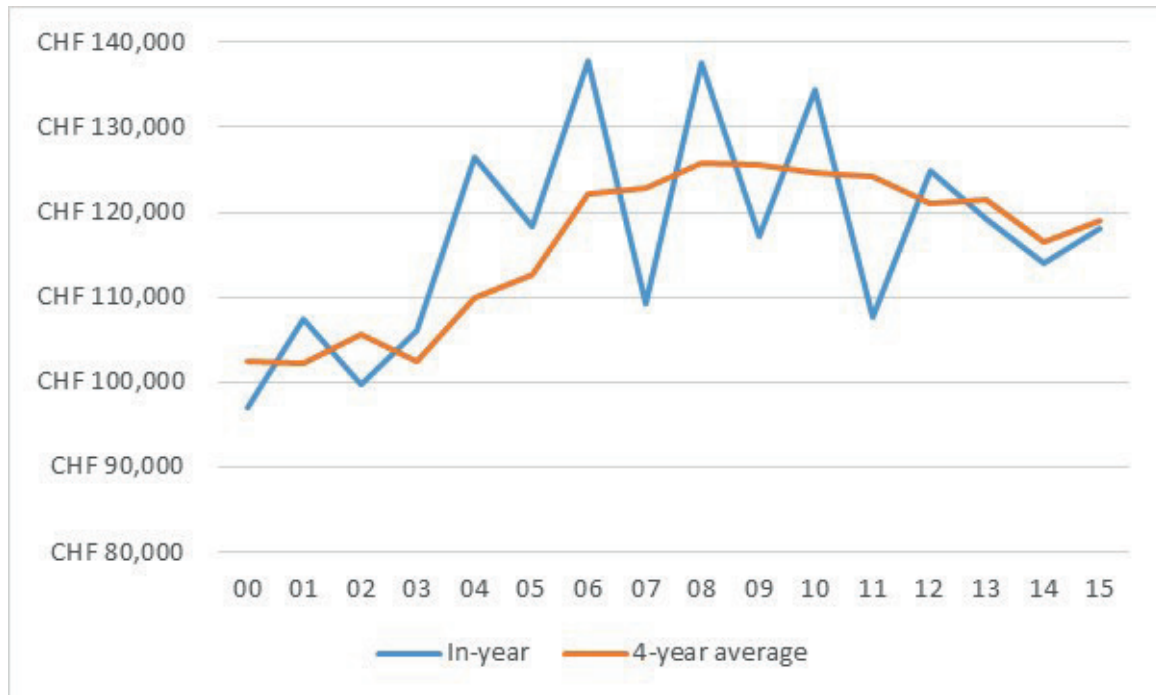


Figure 4: ISPRS membership fees (inc. any arrear payments) collected in-year, 2000-2015.

Society meetings

Society income is boosted significantly by the organisation of successful scientific meetings, and in the last four years, ISPRS benefitted from revenue of CHF 82,441 received from the 2012 Melbourne Congress (down from CHF 94,320 received from the 2008 Beijing Congress) and CHF 36,090 from the eight Technical Commission symposia held in 2014 (down from CHF 53,379 in 2010). Whilst this income shows a 20% reduction on the preceding quadrennial period, doubtless also a function of the challenging global financial situation, it still amounts to 16% of society income for the Congress Period. Going forwards, the introduction of the ISPRS Geospatial Week will see additional dividends returned to the Society in odd years as, now established, 10% of registration fees will be levied on these meetings from 2017 onwards. Many thanks are due to all meeting organisers and their teams in organising successful financial, as well as scientific, symposia under difficult global financial conditions over the last four years.

Society publications

ISPRS has invested substantially in its publications over recent years. This investment, combined with the hard work and enthusiasm of the many editorial teams and others involved in their production, means that the Society can now boast a world-class flotilla of scientific publications. It is anticipated that a number of recent initiatives, described briefly below, will transform this sector of the Society's business from an expense incurring activity to an income generating one from 2016 onwards.

- *ISPRS Journal of Photogrammetry and Remote Sensing (Elsevier)*: A new agreement has been reached with Elsevier for the publication of the ISPRS Journal for the period 1st January 2016 to 31st December 2020. The new five year contract replaces the old agreement one year earlier than originally planned. Up until 2015, the revenue paid to the Society by Elsevier amounted to approximately CHF 10k per annum (equivalent to 3% of journal revenue) and ISPRS were jointly responsible with Elsevier for the editorial costs of the journal, resulting in a net loss for the Society. Under the new agreement, Elsevier will now pay all editorial costs and 20% of journal revenue directly to ISPRS.
- *ISPRS International Journal of Geo-information (MDPI)*: With the amendment of the MDPI publishing agreement to increase the Article Processing Charge (APC) of submissions to this open access journal from CHF 150 to 900 in 2015, MDPI agreed to pay the society CHF 100 out of each article published with an APC of CHF 900. The first income from this source (CHF 560) was received from MDPI in April 2016.
- *International Archives and Annals (Copernicus GmbH)*: A formal agreement is now in place with Copernicus to ensure the systematic production of the ISPRS Archives and Annals, a requisite to ensure the profile of the proceedings through scientific indexing.

In addition, an agreement with Curran Associates, Inc. (USA), <http://www.proceedings.com/>, now provides modest royalties to ISPRS from the on-demand printing of the Archives and Annals. CHF 288 was earned from this source in 2015.

- *ISPRS Book Series (Taylor and Francis):* The ISPRS Book Series has been largely dormant for the last few years, with the result that only modest revenue is now generated from royalties. The decision was therefore taken that royalties for future titles of the Book Series would be paid directly to authors to encourage future publications.

Return on investments

Fluctuations in currency value, and the continued precarious state of the global economy has had significant influence on the valuation of ISPRS investments over the last four years. The Treasurer visited UBS in Zurich in September 2015 where he was advised by the ISPRS Client Advisor to consider active fund management of the ISPRS custody accounts. Council discussed the issue at an ad hoc Council Meeting at the 2015 Geospatial Week in Montpellier and, given the fluctuating state of the global financial market and imminent change of Council within the next 12 months, decided against this at that time. Nevertheless, the under-performance of bonds due to ongoing quantitative easing by governments around the globe means that ISPRS assets are not performing to previous levels and income from this source remains a concern going forwards.

Conclusions and Recommendations

Summary

Overall the Society's financial status continues to be generally healthy, despite a global economy that remains highly uncertain. The Society's net worth at the end of 2015 is roughly equivalent to the expenditure incurred in running the Society for a period of four years, and with global financial uncertainty still prevalent, it would seem prudent to continue to uphold such a position. Nevertheless, whilst the global economy has undoubtedly squeezed existing income sources available to the Society, ongoing endeavours to collect outstanding membership fees, together with recent actions taken to generate additional income from new meetings and the Society's journals, bode well for the future health of ISPRS finances. With a healthy dividend anticipated from the 2016 Congress, it would therefore seem timely to recommend strategic investments in initiatives of importance to ISPRS in 2016-20.

Recommendations

The following recommendations are made for the 2016-20 Congress Period:

- *Membership fees:* The last ISPRS membership fee increase occurred w.e.f. 1st January 2009 (when the base unit was raised from CHF 100 to CHF 115). Given the continuing difficulties in the global economy, and recognising the challenges this is placing on its members, ISPRS Council recommends holding membership fees fixed at the current rate (base unit subscription CHF 115) for the 2016-20 Congress Period.
- *Members in arrears:* The General Assembly should consider actions to be taken with members in all categories who are in deep arrears.
- *Incorporation and compatibility with banking:* The future Council are asked to consider the possible co-location of the Society's incorporation with its banking activity, either through registering ISPRS as an entity in Switzerland, by transferring its banking operations to the USA, or by moving both to a mutually convenient location.
- *Overhaul of accounting system:* With a total of only 180 members in all categories, a much simpler and more efficient on-line method to record and manage member payments, etc. than is currently in operation should be feasible. The incoming Treasurer, together with the Secretary General's office should consider the streamlining of the current practice to an appropriate on-line, off-the-shelf solution.
- *Investment funds:* Two possible recommendations are made in relation to protecting the Society's assets:
 - Active fund management: To maximise return from its custody accounts, the future Council are asked to consider the issue of active investment fund management;
 - Transfer of funds to TIF: The future Council are asked to consider transferring a suitable portion of ISPRS' investment funds to TIF, which has experienced declining resource over the last few years, for subsequent re-investment in an appropriate TIF strategic fund.

- *Further strategic investments:* Three further investment possibilities are recommended to enhance Society activity:
 - Scientific Initiatives: The International Science Advisory Committee (ISAC) recently reviewed the 2014 and 2015 ISPRS Scientific Initiatives outcomes positively, and it is therefore recommended that the practice should be continued with repeat calls in 2017 and 2019;
 - Student Consortium: Council, together with TIF, currently budgets for Student Consortium activities on an annual basis, providing funding for Summer Schools, etc. An enhanced budget to support Student Consortium operations should also be considered alongside this support;
 - Ring-fenced funds for supporting regional meetings, as well as active participation in ISPRS events, for members in developing regions (most notably Africa and South America) could enhance the appeal of

ISPRS in regions where membership is currently disengaged.

Acknowledgements

I have benefited greatly from the valued assistance of Mr Dan Brooking-Coker, Mr Michael Wright, and Mrs Lindsey Earley, all of Newcastle University, throughout my four year term of office as ISPRS Treasurer. The immense help and patience of previous Treasurer, Mr Mike Renslow, and his assistant Ms Amelia Budge, also made picking up the reins of the Treasurer's role relatively painless, and not to say even enjoyable. ISPRS Council has proved to be a source of wisdom on all matters, financial or otherwise, over the last four years and everyone involved has been a joy to work with. Finally, the support and dedication of the ISPRS Financial Commission, consisting of Marie-Jose LeFèvre-Fonollosa, Fulvio Rinaudo and Olga Piedad Rudas, is gratefully acknowledged.

Jon Mills, Treasurer

Appendices

Appendix I: Cost of doing business

Previous Treasurer's reports have provided summary financial data from previous Congress periods to set context. Given that the current Congress period is

always incomplete in such analyses, this information has been demoted to the Appendices and is given in Table 4, below.

Item	Approximate Values ¹ (CHF)					
	1993 -1996	1997 -2000	2001 -2004 ²	2005 -2008	2008 -2012	2013 -2016 ³
Total income	395,049	499,385 ⁴	629,570	735,511	855,165	≈834,000
Investments⁵	273,839 ⁶	389,630 ⁷	619,908	548,061	526,123	≈565,000
Total expenses	299,194 ⁸	429,548	441,502	601,833	782,535	≈665,000
In-kind support⁹	≈95,000	≈100,000	N/A	≈115,000	≈120,000	≈242,000
Approx. cost of doing business¹⁰	≈394,194	≈529,548	>441,502	≈716,833	≈902,535	≈907,000

Table 4: Cost of doing business for ISPRS.

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

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

³2013-2016 estimate based on figures for three year period 2013, 14, 15, plus budgeted values for 2016 income and expenses (see Appendix II).

⁴In 2000, unpaid fees were considered to be deferred income. For consistency, these fees have been subtracted here from total income. The assets reported were CHF 580,710

⁵Values are given for the end of each Congress Period. 2016 figures based on evaluation as of 21/04/16.

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

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

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

⁹In-kind support consists of estimated out-of-pocket expenses to host ISPRS Council Meetings and Council administrative costs. 2012-2016 estimate is based on direct DFG secretariat support of EUR 177,600 (CHF 195k) plus estimated travel support of EUR 42,600 (c. CHF 47k) only.

¹⁰Total expenses plus estimated in-kind support.

Appendix II: 2016 budget and quarter one statement of income and expenditure

		JAN	FEB	MAR	Total Spent YTD	Under/Over Projection
Expenditure 2016 (Projected) in CHF	162,020	915	23,552	2,851	27,317	134,703
Council Activities	54,220	915	4,971	1,924	7,809	46,411
Administrative	13,750	-	-	-	-	13,750
Support staff costs	10,000	-	-	-	-	10,000
President	-	-	-	-	-	-
Secretary General	-	-	-	-	-	-
1st VP	-	-	-	-	-	-
2nd VP	-	-	-	-	-	-
Treasurer	10,000	-	-	-	-	10,000
Other	-	-	-	-	-	-
Consumables and other costs	3,750	-	-	-	-	3,750
President	-	-	-	-	-	-
Secretary General	3,300	-	-	-	-	3,300
1st VP	-	-	-	-	-	-
2nd VP	-	-	-	-	-	-
Treasurer	450	-	-	-	-	450
Other	-	-	-	-	-	-
Travel and Subsistence	37,870	915	4,971	1,924	7,809	30,061
Council and Joint Meetings	19,370	915	4,895	990	6,800	-
President	1,000	-	-	-	-	1,000
Secretary General	1,720	-	-	334	334	1,386
1st VP	5,400	-	-	-	-	5,400
2nd VP	3,150	-	1,851	-	1,851	1,299
Treasurer	2,600	601	-	656	1,258	1,342
Guests	3,000	-	2,539	-	2,539	461
Hospitality (meals, gifts etc.)	2,000	313	506	-	819	1,181
Supplies	500	-	-	-	-	500
ISPRS Congress and Symposia	5,350	-	-	-	-	5,350
President	-	-	-	-	-	-
Secretary General	550	-	-	-	-	550
1st VP	1,100	-	-	-	-	1,100
2nd VP	2,100	-	-	-	-	2,100
Treasurer	600	-	-	-	-	600
Other Council representatives	1,000	-	-	-	-	1,000
Other conferences and workshop	7,700	-	75	629	704	6,996
President	3,000	-	-	-	-	3,000
Secretary General	550	-	-	-	-	550
1st VP	2,900	-	-	-	-	2,900
2nd VP	-	-	-	-	-	-
Treasurer	750	-	75	629	704	46
Other Council representatives	500	-	-	-	-	500
International committee meetings	5,450	-	-	305	305	5,145
President	-	-	-	-	-	-
Secretary General	550	-	-	-	-	550
1st VP	2,900	-	-	305	305	2,595
2nd VP	-	-	-	-	-	-
Treasurer	-	-	-	-	-	-
Other Council representatives	2,000	-	-	-	-	2,000
Advisors	2,600	-	-	-	-	2,600
Accounting	2,600	-	-	-	-	2,600
Legal	-	-	-	-	-	-
Other	-	-	-	-	-	-
Society Activities	79,320	-	6,010	-	6,010	73,310
Webmaster	10,000	-	-	-	-	10,000
Webmaster fee	10,000	-	-	-	-	10,000
Other	-	-	-	-	-	-
Subscriptions and memberships	4,000	-	4,002	-	4,002	2
ICSU	4,000	-	4,002	-	4,002	2
Other	-	-	-	-	-	-
Student activities	12,320	-	-	-	-	12,320
Web page	120	-	-	-	-	120
Printing	1,200	-	-	-	-	1,200
Summer schools	10,000	-	-	-	-	10,000
3S ISPRS contribution	1,000	-	-	-	-	1,000
Other	-	-	-	-	-	-
Exhibits	3,000	-	2,008	-	2,008	992
Intergeo	3,000	-	2,008	-	2,008	992
Other	-	-	-	-	-	-
Congress	50,000	-	-	-	-	50,000
Awards and travel bursaries	28,500	-	-	-	-	28,500
Travel / subsistence for non-Council members or reps	9,000	-	-	-	-	9,000
Hospitality (meals, gifts etc.)	7,500	-	-	-	-	7,500
Supplies	1,000	-	-	-	-	1,000
Other	4,000	-	-	-	-	4,000
Publications	15,250	-	12,502	-	12,502	2,748
Journal Editor & Assoc Eds.	15,250	-	12,502	-	12,502	2,748
Intl. Journal of Geoinformation	5,500	-	2,778	-	2,778	2,722
ISPRS Journal of P&RS Editors	9,750	-	9,724	-	9,724	26
Book series	-	-	-	-	-	-
Other	-	-	-	-	-	-
Contingencies	10,000	-	-	-	-	10,000
International collaborations	-	-	-	-	-	-
IPAC Chair	-	-	-	-	-	-
Other TBC	10,000	-	-	-	-	10,000
Banking and loans	3,230	-	69	927	995	2,235
Bank charges	3,100	-	69	872	941	2,159
Congress loan	-	-	-	-	-	-
Other	-	-	-	-	-	-
Transfers	130	-	-	54	54	76
Investments	5,700	-	-	-	-	5,700
Investments	5,700	-	-	-	-	5,700

				JAN	FEB	MAR	Total Income YTD	Under/Over Projection	
Income (Projected) in CHF				306,600	10,989	23,341	31,093	65,423	241,177
Subscriptions				112,000	10,989	23,090	19,915	53,994	58,006
			Ordinary Members	65,000	5,727	10,973	19,399	36,099	28,901
			Sustaining Members	45,000	5,022	12,117	516	17,655	27,345
			Regional Members	1,000	240	-	-	240	760
			Associate Members	1,000					1,000
Royalties				10,450	-	251	11,178	11,429	- 979
			Elsevier	10,200			11,178	11,178	- 978
			Taylor & Francis	-					-
			Advertising sales	-					-
			Other	250		251		251	- 1
Congress				80,000	-	-	-	-	80,000
			Dividend from Melbourne Congress	80,000					80,000
			Remainder of dividend	-					-
Banking and loans				104,150	-	-	-	-	104,150
			Dividends	4,150	-	-	-	-	4,150
			#279211	250					250
			#278859	3,900					3,900
			Interest	-					-
			Other	-					-
			Loans	100,000	-	-	-	-	100,000
			Congress loan (CHF 100,000)	100,000					100,000

Appendix III: Historical record of membership fees collected

Member Type	OM	SM	RM	AM	Total
Year	CHF	CHF	CHF	CHF	CHF
1997	61,111	44,729	800	1,400	108,040
1998	52,763	31,863	200	1,300	86,126
1999	82,082	34,500	300	1,700	118,582
2000	65,918	28,294	1,577	1,200	96,989
2001	59,246	43,985	1,555	2,532	107,318
2002	55,659	40,426	364	3,200	99,649
2003	71,373	33,161	486	949	105,969
2004	75,513	42,662	1,944	6,238	126,357
2005	63,195	51,936	1,283	1,817	118,231
2006	74,070	58,945	1,462	3,207	137,684
2007	58,275	47,729	858	2,482	109,344
2008	71,510	62,473	1,110	2,382	137,476
2009	64,741	50,069	1,103	1,334	117,247
2010	81,386	48,679	1,555	2,683	134,303
2011	60,174	46,520	419	599	107,713
2012	65,271	50,924	2,437	6,198	124,831
2013	65,414	50,050	780	2,931	119,174
2014	72,647	38,917	1,060	1,278	113,901
2015	63,504	49,081	1,085	4,395	118,065

Table 5: Historical record of membership fees collected per year.

Note: Exchange rates between the USD and CHF and between the Euro and CHF were calculated for each year (1997 through 2003) per the exchange rate at the end of the fiscal year (31st December). These calculations were performed by previous ISPRS Treasurers. Exchange rates

between these currencies starting in 2004 were calculated throughout the year on the day of each transaction using a daily average rate provided online by x-rates.com (<http://www.x-rates.com>).

Report of ISPRS Financial Commission Chair Marie-José Lefèvre-Fonollosa to the General Assembly for the term 2012-2016

The Financial Commission of ISPRS 2012-2016 is composed by:

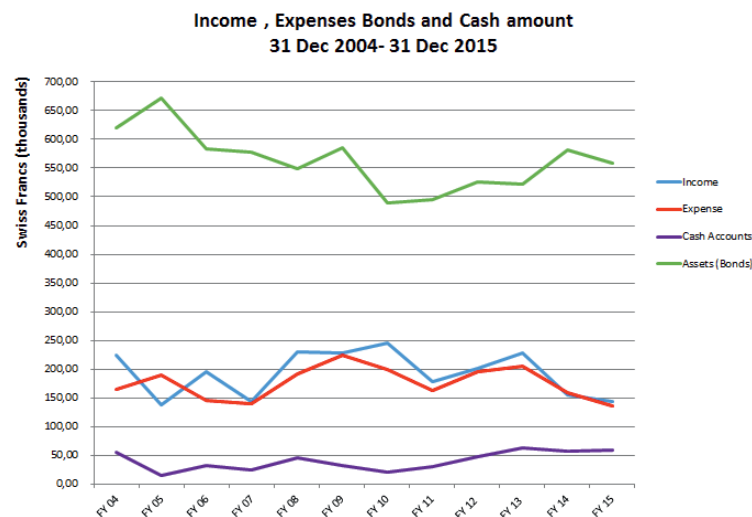
Chairperson : **MARIE-JOSÉ LEFÈVRE-FONOLLOSA**, French Space Agency, France
 Member : **FULVIO DE RINAUDO**, Politecnico di Torino, Italy
 Member: **OLGA PIEDAD RUDAS**, Directorio SELPER, Colombia

- May 23rd, 2014: Financial commission Comments 2014 (FY2013)
- May 2nd, 2015: Financial commission Comments 2015 (FY2014)
- April 10th, 2016: Financial commission Comments 2016 (FY2015)

The Financial Commission of ISPRS examined accounts proposed each year by the Treasurer and submitted its findings to the council in four annually reports:

- March 23rd, 2013: Financial commission Comments 2013 (FY2012)

At each fiscal year from 2012 to 2105, the Financial Commission examined with accuracy all accounts of the Society included in the Treasurer's report; for one part, incomes and expenditures, and at the other hand the evolution of the assets (bonds), dividends and cash accounts (see figure below).



At first, we validated the exactitude of the accounts. This was possible because Treasurer's reports were detailed, very well documented and easy to read. It provided in particular the tables of monthly statements which allowed a well understanding of the various flows at the different steps of the year, year by year. We would thanks Jon Mills and his team for their important work.

After a thorough check, the Financial Commission confirmed, that the 2012-to-2015 ISPRS accounts show no accounting errors.

Secondly, taking in consideration the Incomes, they were 717 685 CHF for the period (179 421CHF by year), with a specific increases in 2012 and in 2013 due to the Congress profits. Most important are the subscription's values. They were highest in 2012 (124 830 CHF) taking into account the Melbourne Congress

effect, and then relatively stable during the following years (119 174 CHF in 2013, 113 901 CHF in 2014 and 118 065 CHF in 2015). This very remarkable stability was due to the permanent effort of the council in recovering the chronic non-payment of the fees from 22% of members.

Thirdly, the Expenditures amounts during this period are 698 403 CHF (in mean 174 600 CHF by year), systematically under the predicted values and below the incomes; such that authorizes to made a reasonable profit (~5500 CHF /year) which were invested this last three years .

This very good management allowed not opening the saving invested in different assets. The global value of the assets were 558 965 CHF at December 31st, 2015 and generates regular dividends (17 000 CHF during the four years period).

We need also to notice the value of 58 931CHF of cash account.

In summary, Treasurer's reports shows that the Society has a stable, well controlled and healthy management of its accounts, despite a financial erosion of 1%, principally due to money fluctuations between Euros, Swiss francs and Dollars during this period.

Given all these different factors, we considered that Treasurer's reports are fully consistent with Financial ISPRS policy.

Therefore, the Financial Commission Chair cosigned with the Treasurer the annual budget, statement of receipts and payments and balance sheet by the end of May of each year and reported directly to the Council through the Secretary General.

The dates of visas are given:

Financial_Report_FY12_Submit: approved March 23rd, 2013

Financial_Report_FY13_Submit: approved May 23rd, 2014

Financial_Report_FY14_Submit: approved May 2nd, 2015

Financial_Report_FY15_Submit: approved April 10th, 2016

The financial Commission advised the Council, giving some analysis and recommendations both on expenditures and on the size of the reserve that appears too high for a non-profit Society.

In particular, we recommended:

FY 2012 : Two main recommendation:

Travel expenditure management:

It's essential that Council members and other supports travel for their mission of coordination. Given the important amount of travels expenditures we suggest that ISPRS adopts a policy about the class for flights, stars for hotels and possible maximum amount for meals per day.

Scientific activities enhancement:

This was related to the very low level of science activities in the Society. If efforts are correct with respect to international collaborations, the amount is zero for scientific initiatives. In other part, the incomes for this activity is not so high, but the Society received dividends, royalties and sponsorships, so reserves exist. We suggested that part of the reserves or assets were committed to support science projects, for example through the creation of an annual call of tender.

FY 2015 : Increase aid to Developing Countries

Thanks to its excellent management, the financial situation of ISPRS is very comfortable (assets ~700 000CHF, i.e. more than 4 times the annual budget) and is increasing each year. This situation protects the society from economic difficulties, at short and medium term. Nevertheless, 22% of members are behind in their dues and a solution must be found to solve this problem. However, the resources of some of those societies are very low and, in fact, they cannot participate efficiently at ISPRS international activities.

Our recommendation at the ISPRS Council was to set up a special "Developing Country fund" that would allow members to be represented at the ISPRS congress, but also to elaborate some international collaboration including grants for young scientists.

The Financial Commission Chairperson, Marie-José Lefèvre-Fonollosa, was invited by the ISPRS Council once during its four-year term. This meeting was held in Antalya (Turkey) in November 2013 during the Laser Scanning week.

It was an occasion to discuss about recommendations we done, in particular for some spending, and also about some new directions which could conduct to change partially the financial policies in the next years.

The Financial Commission noted in particular the decision of the Council to invest in a call to scientific projects in 2014 and 2015. Even if a slight deficit appears and reduces reserves, in our opinion, such this initiative presents a good direction for a non-profit society like ISPRS. Indeed, the financial commission remarked the fact that the association was making profits year after year; this situation seemed abnormal for a non-profit society, and we have recommended to invest a part of these benefits particularly in science initiatives.

The Financial Commission's members were unfortunately unable to meet over the 4 years of his mandate. But discussions by email helped us to provide a common coordinated policy that could summarize as follows:

a) *Reasonable reduction and/or diversification in Assets :*

However, we must ask us again the question of the bank investments of the ISPRS profits; and this not only because it is a non-profit learned society which has capitalized substantial profits during its history, but also because these bonds are entrusted to UBS bank is now in a complicated legal situation and perhaps even risky. May be, we should make an audit of the Bonds legal status? and / or diversify

the vectors? These questions must be asked and/or seriously discuss in 2016.

b) *Best investment in scientific activities:*

This was set up from 2014, under the name of "Scientific Initiative". We would thank the board to have remarkably led this project without having had any impact on the fiscal balance of the society.

c) *Help the mobility of young scientists from Developing Countries:*

Our recommendation at the ISPRS Council is to elaborate some international collaboration including grants for young scientists

d) *Reduce the problem of payment fees collection:*

A closer, targeted and more frequent connection with the members would allow being clear on memberships fees. Some financial aids should be necessary; for example s to set up a special fund" that would allow members to be represented at the ISPRS congress.

Marie-José Lefevre-Fonollosa
Financial Commission Chair

Report of the Editors-in-Chief of the ISPRS Journal Derek Lichti, Qihao Weng

Overview of Major Developments

The rapid growth first experienced by the ISPRS Journal of Photogrammetry and Remote Sensing in 2010 continued during the 2012-2015 reporting period. Since 2011, the number of submitted manuscripts has more than doubled but the growth seemed to plateau in 2015. Accordingly, the number of published volumes increased from eight to 12, and the editorial team doubled in size. In 2014 the Journal's scope was re-examined and re-focused. This revision aimed at reflecting more accurately the activities of its contributors and capturing new and emerging trends in photogrammetry, remote sensing, spatial information systems, and computer vision. The impact factor has been steady around 3.0 from 2012-2014 with an expected strong increase in 2015, which indicates that the quality of the Journal continues to be very high. Article handling time has improved considerably, and author satisfaction is now positive in all evaluation categories. Several promotional/outreach activities were undertaken by the Editors-in-Chief to promote greater awareness of the Journal and to better inform

young researchers about the scientific publishing process. The winner of the U.V. Helava Award for the best paper during 2012-2015 period has been awarded to "Multiclass feature learning for hyperspectral image classification: Sparse and hierarchical solutions" by Devis Tuia, Rémi Flamary and Nicolas Courty.

Manuscript Handling

Manuscript Submissions

The Journal experienced significant growth in terms of the number of submitted manuscripts in 2012-2014, with 40% growth in 2013. The number of submissions stabilized in 2015 and, so far in 2016, the number of submissions is in line with 2015 numbers.

Year	2012	2013	2014	2015
# submitted manuscripts	370	517	653	658
% increase from previous year (318 in 2011)	16	40	26	1

Acceptance Rate

The acceptance rate in 2012-2014 kept around 30%, but decreased in 2015 to about 22%. Submitted papers are usually reviewed by at least two anonymous reviewers, though sometimes three or even four are used. Desk rejection (i.e. rejection

without peer review) is used for cases where the quality of the paper and/or the scientific contribution is deemed not sufficient to send it for review or where it is clearly outside the Journal's scope.

Year	2012	2013	2014	2015
# final decisions	363	512	660	678
# accepted papers	108	159	190	152
# rejected papers	234	336	458	522
# withdrawn papers	21	17	12	4
Acceptance rate (%)	31.5	32.1	29.3	22.6

The CrossCheck tool was introduced into the Elsevier Editorial System (EES) in 2014. It uses the Ithenticate software to check submitted papers for similarity (percentage of overlapping) with a large database of publications. It is quite an effective tool that has, unfortunately, revealed many cases of plagiarism, for which the papers in question were rejected.

conducted by Elsevier, has been the editorial handling time for articles. The editorial and publication times in the period of 2012-2015 has been substantially shortened, as can be seen in the table below. These improvements can likely be attributed to a number of factors including: the appointment of additional editors; the appointment of the Editorial Advisory Board; and weekly email reports about the status of each paper that are sent to editors.

Handling Times

A persistent issue for the Journal over the years, as judged from anonymous author feedback surveys

	2011	2012	2013	2014	2015
Editorial time (weeks)	44.2	42.2	40.9	30.3	29.4
Web publication time (weeks)	58.7	48.4	45	35.4	43.4
Print publication time (weeks)	61.3	56.7	52.7	41.5	45.1

Published Articles

Modes of Publishing

Two options are available for articles published in the Journal: open access and subscription. Open access articles are freely available to the public and

the cost of publication is borne by the author(s). Subscription articles are available to paid subscribers and some groups through Elsevier's universal access programs. Authors of these articles pay no fees.

One featured paper per volume, identified by the EICs, is granted promotional access. This article is made freely available to the public for a limited time. Once the time limit has elapsed, the article returns to the subscription model.

Number of Publications

In 2013 the number of volumes changed from 8 to 12. As can be seen in the table below, the number of published papers and the number of pages has increased every year. The largest changes were in 2013 due to the 50% increase in the number of volumes.

Year	2012	2013	2014	2015
# volumes	8	12	12	12
# papers	100	142	165	187
% increase from previous year (93 in 2011)	8	42	16	13
# pages	1194	1732	2140	2346
% increase from previous year (1050 in 2011)	14	45	24	10

Theme Issues/Sections

The table below summarizes the Theme Issues (TIs) and Theme Sections (TSs) published in the Journal for the 2012-2015 period plus early 2016. The

distinction between designations is on the basis of the number of accepted papers: a TI comprises 10 or more papers; a TS comprises less than 10 manuscripts.

Year	Vol	Title	Guest Editors	# papers	TI/TS
2012	73	Innovative Applications of SAR Interferometry from modern Satellite Sensors	Uwe Soergel Rudiger Gens Michele Crosetto	11	TI
2013	76	Terrestrial 3D Modelling	Fabio Remondino Jan Boehm	7	TS
2013	83	Towards Intelligent Geoprocessing on the Web	Songnian Li Suzana Dragicevic Bert Veenendaal Maria Antonia Brovelli	5	TS
2014	93	Urban Object Detection and 3D Building Reconstruction	Franz Rottensteiner Gunho Sohn Markus Gerke Jan Dirk Wegner	8	TS
2015	100	High-Resolution Earth Imaging for Geospatial Information	Christian Heipke Uwe Soergel Franz Rottensteiner Boris Jutzi	11	TI
2015	103	Global Land Cover Mapping and Monitoring: Progress, Challenges, and Opportunities	Yifang Ban Peng Gong Chandra Giri	10	TI
2015	104	Integrated Imaging and Sensor Fusion for Rapid Response and Monitoring Applications	Naser El-Sheimy Charles Toth Steve Liang	5	TS
2016	10	Photogrammetric Computer Vision 2014: Best	Konrad Schindler	3	TS

5	5	Papers of the ISPRS Technical Commission III Symposium			
2015	107	Multitemporal remote sensing change detection	Clément Mallet Nesrine Chehata Grégoire Mercier	10	TI
2016	114	Cloud/web mapping and geoprocessing services – intelligently linking geoinformation	Bert Veenendaal Maria Brovelli Lixin Wu	5	TS
2016	115	State-of-the-art in photogrammetry, remote sensing and spatial information sciences	Christian Heipke Marguerite Madden Zhilin Li Ian Dowman	11	TI
In production		Multi-dimensional modeling, analysis and visualization	Francesc Antón Castro Arzu Çöltekin Éric Guilbert Chris Pettit	6	TS
Papers in review		Papers from the 36 th International Symposium on Remote Sensing of Environment (ISRSE)	Bjorn Waske John Trinder		
Papers in review		Papers from the 2015 Geospatial Week	Ian Dowman Nicolas Paparoditis		

Recently we have received several requests for theme issues for specific conference events. Apart from the 2015 Geospatial Week, we have not been accepting new theme issue proposals for a variety of reasons:

- Lack of impact. Analyses performed by the previous Publisher (Elaine van Ommen Kloeke) indicated that papers published in Theme Issues did not significantly contribute to increases in the Journal's impact factor.
- Capacity. Theme Issues are generally led by scientists not currently having an editorial role with the Journal. Many recent Guest Editors (GEs) have given excellent service to the Journal and, as a result, have been invited to join the Editorial Advisory Board or have been identified for a possible future role with the Journal. However, this is not always the case. Although all GEs are committed to handling the editorial duties at the outset of the process, experience has shown that not all are able to make the demanding time commitment throughout the six to eight month process. (The commitment level is made very clear to potential GEs before the EiC approves a Theme Issue and written document and EiC email support are provided after approval.) The lack of GE capacity has led

to protracted handling times and the need for the responsible EiC to send regular reminders.

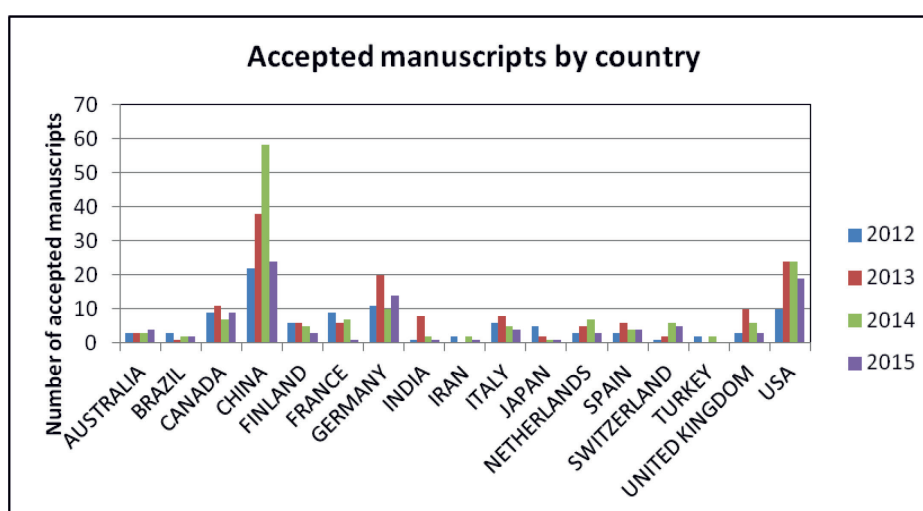
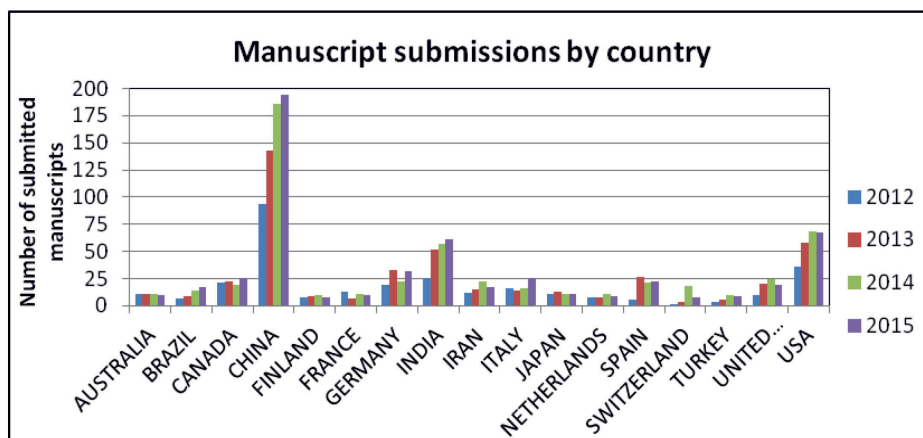
The current model we are following for Theme Issues is to identify high-quality papers from relevant conference events and invite the author(s) to submit a revised version for consideration by the Journal. This model worked well on a small scale (three papers) for the Photogrammetric Computer Vision 2014 Theme Section and is now being used at full scale for the 2015 Geospatial Week Theme Issue.

In consultation with Elaine (the Publisher), the guidelines for preparing proposals for prospective theme issues have been revised. The future of Theme Issues will be discussed with Council and at the Editorial Meeting in Prague.

Countries of Origin of Contributions

The figure below provides a graphical summary of the country of origin of the corresponding author. Though the Journal received manuscripts from 77 different countries, only those for which 10 more papers were received in any one year of the reporting period are presented. Clearly, the largest contributing country and the country that experienced the most growth (doubling of submissions in four years) is China. The next largest contributors are the USA, India, and Germany. In

terms of the number of accepted papers, the top three countries are China, the USA, and Germany.



Access to Articles

As can be seen below, the number of downloads increased each year of the reporting period, though the largest increase was in 2014.

Paper Downloads from ScienceDirect

Papers are available on-line through the Elsevier website:

<http://www.sciencedirect.com/science/journal/09242716/118>.

Year	2012	2013	2014	2015
# downloads	235520	275730	390320	453978
% increase from previous year (195887 in 2011)	20	17	42	16

Journal Web Page

In the past a website for the Journal has been maintained by the EIC. In early 2013 it was migrated to the ISPRS website (see <http://www.isprs.org/isprsjournal/>) as it was felt it should be independent of the EIC's home institution.

Impact Factor

The impact factor (IF) is a two-year measure of Journal quality published annually in the Journal Citation Reports by Thomson ISI. Over the past four years the impact factor of the Journal was stable at around 3.0 with an expected strong increase in 2015. The IF increased slightly from 2.902 in 2013 to 3.132 in 2014; while the Journal's five-year impact factor increased from 4.202 to 4.652. The 2015

impact factor was not available at the time of writing.

Year	2011	2012	2013	2014
Impact factor	2.885	3.313	2.902	3.132
Five-year impact factor	3.435	4.026	4.202	4.652
Number of citations	1879	2496	3088	4120

The total number of citations to articles in the ISPRS Journal continued to grow and more than doubled in the period of 2012-2015. The total number of

citations of articles in the Journal reached 4120 in 2014.

Editorial Team

Editors-in-Chief and Associate Editors

At the time of the 2012 ISPRS Congress in Melbourne, the editorial team comprised one Editor-in-Chief (EIC; George Vosselman) and seven

Associate Editors (AEs). Since then, the editorial team has grown (nearly doubled) in response to the large increase in the number of manuscript submissions thanks to the support of both the ISPRS Council and Elsevier. The current editorial team is a diverse team of internationally-recognized experts that represent every populated continent. They are listed in the Table below in alphabetical order.

Name	Institution	Country	Subject areas handled	Period served
Editors-in-Chief				
Derek Lichti	University of Calgary	Canada	Photogrammetry Laser scanning	2013-
Qihao Weng	Indiana State University	United States of America	Remote sensing	2015- 2009-2014 as Associate Editor
Associate Editors				
Cláudia Maria de Almeida	National Institute for Space Research	Brazil	Remote sensing	2015-
Jay Gao	University of Auckland	New Zealand	Remote sensing	2013-
Eberhard Gülch	Universität Stuttgart	Germany	Photogrammetry GIS	2007-
Olaf Hellwich	Technische Universität Berlin	Germany	Photogrammetry RADAR	2007-
Sanna Kaasalainen	Finnish Geodetic Institute	Finland	Laser scanning	2012-

Minho Kim	Sangmyung University	Republic of Korea	Remote sensing	2014-
Lalit Kumar	University of New England	Australia	Remote sensing	2012-
Hans-Gerd Maas	Technische Universität Dresden	Germany	Photogrammetry Laser scanning	2013-
Xin Miao	Missouri State University	United States of America		2014-
Giorgos Mountrakis	State University of New York	United States of America	Remote sensing	2015-
Onesimo Mutanga	University of KwaZulu-Natal	South Africa	Remote sensing	2013-
Konrad Schindler	Eidgenössische Technische Hochschule Zürich	Switzerland	Computer vision	2011-
Uwe Sörgel	Technische Universität Darmstadt	Germany	RADAR	2013-

Dan Civco, who began as an AE in February 2009, stepped down at the end of December 2014. Dar Roberts, who began as an AE in January 2012, resigned at the end of December 2012. Conghe Song was as an AE appointed in early 2013 and resigned from his position in early 2014.

Editorial Advisory Board

The Journal's Editorial Advisory Board (EAB) was formed in 2013. Comprising internationally-recognized scientists who have reliably served and/or contributed articles to the Journal, the EAB is primarily a reviewer resource for the editorial team. Each member is responsible for performing at least four reviews per year. Former AEs Dan Civco and Conghe Song were added during the three-year term. The new EAB term began in May 2016, consisting of 40 members appointed for a three-year term.

Elsevier

Staff changes

The EiCs have frequent contact with several Elsevier staff. Based in Amsterdam, the Publisher is responsible for the Journal and our main contact. The EiCs have regular contact with the Publisher through email and Skype meetings are held every two or three months. We have established a good working relationship with Elaine that has continued with Joy and now Lan. The Chennai-based Journal Manager is our contact for production matters as well as issues that arise with Elsevier's online submission system EES. The Publishing Content Specialist, who is based in Beijing, is our contact for Theme Issues. The table below summarized the staff changes for the reporting period.

Name	Service Period
<i>Publisher</i>	
Gert-Jan Geraeds	Until April 2013
Elaine van Ommen Kloeke	April 2013-June 2015; November 2015-February 2016
Joy Idler	June 2015-October 2015
Lan Song	March 2016-

<i>Journal Manager</i>	
Kreeti Saravanan	Until June 2013
Bohnishikha Chakraborty	June 2013-December 2015
Krupa Muthu	December 2015-
<i>Publishing Content Specialist</i>	
Jenny Wang	Until May 2013
Angela Yuan	May 2013-November 2014
Jia/Jessica Yang	November 2014-

Contract

The contract renewal was handled by Jon Mills and Marguerite Madden with input from the EICs.

The U.V. Helava Award

The award

The U.V. Helava Award, sponsored by Elsevier B.V. and Leica Geosystems AG, is a prestigious ISPRS Award, which was established in 1998 to encourage and stimulate submission of high quality scientific papers by individual authors or groups to the ISPRS Journal, to promote and advertise the Journal, and to honour the outstanding contributions of Dr. Uuno V. Helava to research and development in photogrammetry and remote sensing.

The Award is presented to authors of the best paper, written in English and published exclusively in the ISPRS Journal during the four-year period from January of a Congress year, to December of the year prior to the next Congress. The Award consists of a monetary grant of SFr. 10,000 and a plaque. A five-member Jury, comprising experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, evaluates the papers. For each year of the four-year evaluation period, the best paper is selected, and among these four papers, the one to receive the U.V. Helava Award.

The Jury

The composition of the U.V. Helava Award Jury for the 2012-2015 evaluation period is summarized in the table below. All have done an excellent job serving the Journal and are thanked for the time they have devoted to award decision process.

Name	Institute	Country	Evaluation Period Served
Pawel Boguslawski	University of the West of England	United Kingdom	2012-2015
Etienne Berthier	Laboratoire d'Etudes en Géophysique et Océanographie Spatiales	France	2012-2013
Wolfgang Förstner	Universität Bonn	Germany	2012-2015
Carolyn Merry	The Ohio State University	U.S.A.	2012-2013
Uwe Stilla	Technische Universität München	Germany	2012-2015
Anjana Vyas	CEPT University	India	2014-2015
Bing Xu	Tsinghua University of Beijing	China	2014-2015

The Winners

The four best papers selected by the Jury are:

- 2012 CityGML – Interoperable semantic 3D city models by Gerhard Gröger and Lutz Plümer.
- 2013 Urban accessibility diagnosis from mobile laser scanning data by Andrés Serna and Beatriz Marcotegui
- 2014 Indoor scene reconstruction using feature sensitive primitive extraction and graph-cut by Sven Oesau, Florent Lafarge and Pierre Alliez
- 2015 Multiclass feature learning for hyperspectral image classification: Sparse and hierarchical solutions by Devis Tuia, Rémi Flamary and Nicolas Courty

The winner of the U.V. Helava Award for the 2012-2015 period as selected by the Jury is “Multiclass feature learning for hyperspectral image classification: Sparse and hierarchical solutions” by Devis Tuia, Rémi Flamary and Nicolas Courty, which was published in 2015.

Outreach and Education Activities

Outreach activities are important to promote the Journal and help potential authors, young scientists

in particular, understand the peer review and publication processes as well as publication ethics. To this end, we have engaged in a number of outreach/educational activities.

In June 2013, Derek participated in the International Editors-in-Chief Forum at the 7th International Conference on the Analysis of Multi-temporal Remote Sensing Images - MultiTemp 2013 in Banff, Canada. The EiCs of several other major remote sensing journals also participated. The format was a panel discussion of questions from the audience about current issues and trends relevant to all participants and was a good opportunity to promote the Journal. Derek and Elaine delivered the workshop “How to Get Published & Review” at the ISPRS Commission II Symposium in Toronto on 5 October 2014. The workshop was free to participants who registered for the Symposium. Additional publishing presentations given by Derek are summarized in the table below. Qihao gave a publishing presentation at Wuhan University in July 2015.

Qihao and Derek wrote an article about the state of the Journal that was published in GIM International in late 2015. The full reference is as follows:

Weng, Q. and Lichti, D. 2015. The ISPRS Journal of Photogrammetry and Remote Sensing – A Constant Source of Knowledge. GIM International 29(10): 49.

Location	Date
University of Calgary	February 2014
University of Calgary	May 2015
Shenzhen University	December 2014
University of Calgary	February 2015
University of Calgary	October 2015
University of Calgary	December 2015
China University of Geosciences in Beijing	December 2015
National Geomatics Centre of China	December 2015
Beijing Architecture University	December 2015
Wuhan University	December 2015
Oregon State University	April 2016

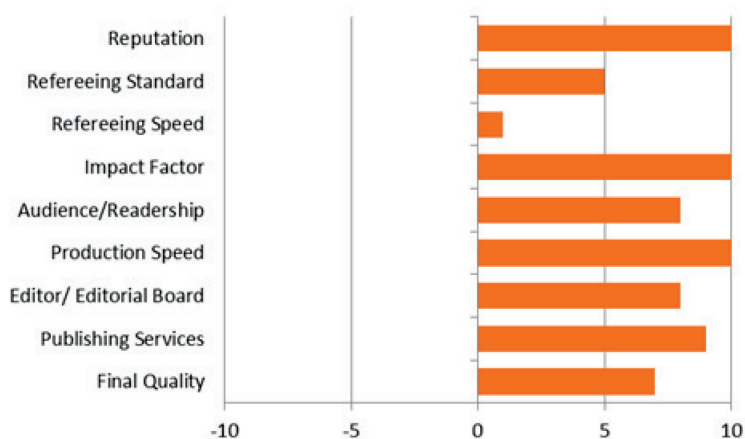
Publishing presentations on ISPRS Journal for Photogrammetry and Remote Sensing given by Derek Lichti

Summary and Outlook

Editorial Handling Speed

The February 2015 Elsevier author poll indicates that our journal is highly regarded and the review quality is respected. As mentioned earlier, the main criticism has historically been paper handling speed (some AEs are faster than others). This trend has

been reverted starting 2015 (see chart below). We have recently made a change to address this issue: not allowing multiple major revisions of papers (shorter handling time; rejection of no novelty, lower impact and less pertinent papers). However, attracting referees to provide timely reviews remains an issue.



Impact factor

The impact factor is expected to increase substantially in 2015, as well as the journal's ranking in the field of remote sensing. We plan to be more proactive in attracting significant contributions. The Editors-in-Chief sent invitations to a few high-impact authors for manuscripts every year. As a society journal, ISPRS Journal has an obligation to publish on all topics and global regions.

Theme Issues

Analyses of the past three years (2012-2014) have shown that theme issues do not generate a large number of citations in relation to regular volumes. Some issues have good quality, while others not. The Editors-in-Chief have revised Guidelines for Preparing Proposals for Prospective Theme Issues. However, we are not currently accepting Theme Issue proposals; we wish to discuss the future direction for Theme Issues with the ISPRS Council and ensure fit with the strategic plan for the Journal.

Derek Lichti, Qihao Weng, Editors-in-Chief

Report of the Editor-in-chief of the ISPRS International Journal of Geo-Information, Wolfgang Kainz

Highlights

- ISPRS IJGI is covered by **Science Citation Index Expanded** (Web of Science) and **Scopus**.
- The total number of pdf downloads increased significantly year by year.
- The number of published papers increased year by year.
- The number of submissions increased significantly year by year.

- 20 Special Issues were open for submission in 2016.
- Five volumes have been published since 2012. Volume 1 (2012) has 3 issues; volumes 2 (2013) to 4 (2015) have 4 issues; as of 2016 we moved to monthly issues.

Online Readership

The total number of downloads of *IJGI* papers increases year by year, especially those of 2015. Compared with the data in 2014, we have noticed

an increase by over 116% in 2015. The top ten downloaded papers during the last four years are

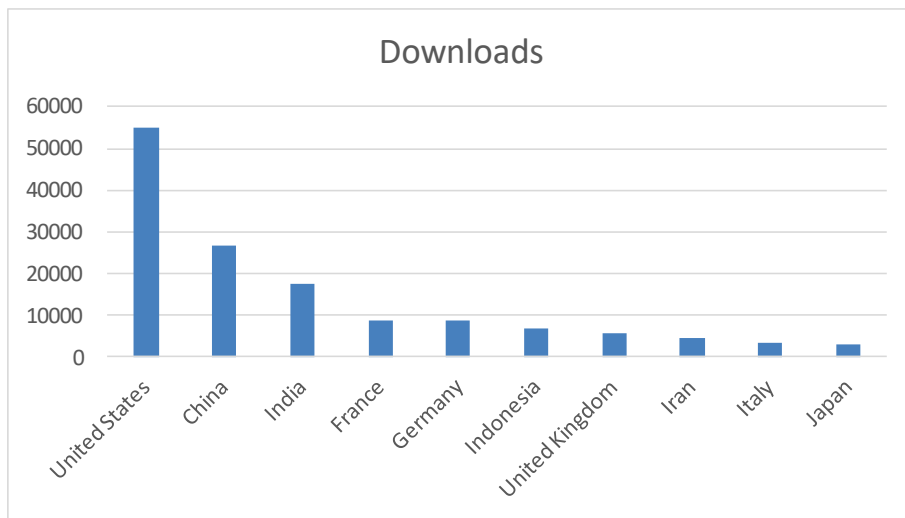
listed in Appendix 1.

Year	2012 (June to December)	2013	2014	2015	2016 (January to April)
Downloads	5,081	31,494	45,532 *	98,220 *	65,456

* The visits data was counted by Google Analytics (GA)

The country downloading the most *IJGI* articles during the past four years was United States with 25.3% of the total number of downloads. Please see

below information about top 10 accessing countries.



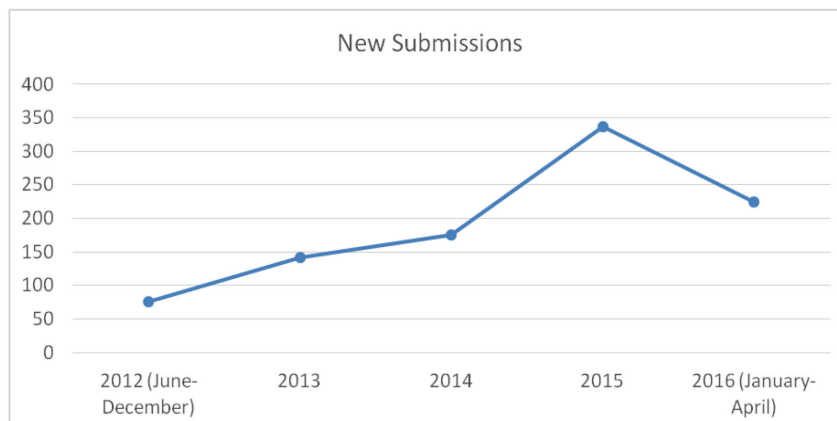
The most downloaded article from 2012 till now was “GIS-Based Planning and Modeling for Renewable Energy: Challenges and Future Research Avenues” (<http://www.mdpi.com/2220-9964/3/2/662>) by Bernd Resch, Günther Sagl, Tobias Törnros, Andreas Bachmaier, Jan-Bleicke Eggers, Sebastian Herkel, Sattaya Narmsara and Hartmut Gündra, published in Volume 3, Issue 2 as part of the Special Issue “GIS for Renewable Energy”, and was downloaded 4,270 times. For a top 10 list of most downloaded articles published from 2012 to 2016, please see Appendix 1.

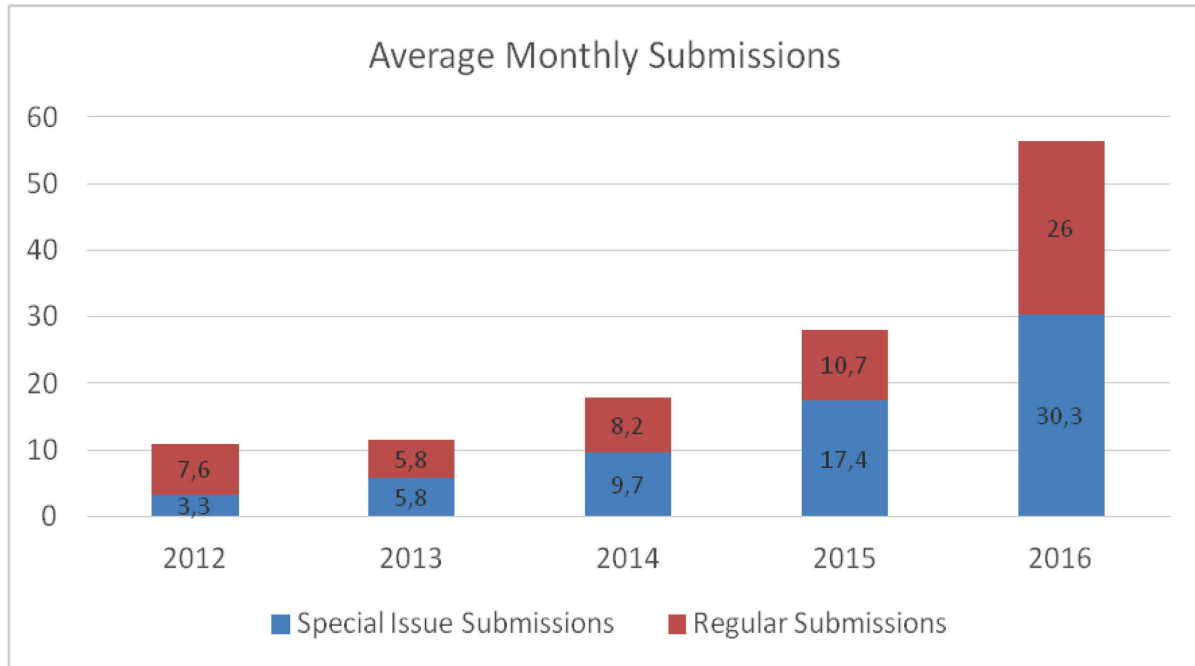
New Submissions Distribution

From June 2012 till now, we have received 955 submissions, 50% of which are special issue submissions and 50% are regular submissions.

Please see the figures below that show the yearly submission data and the average number of monthly submission data from 2012 to 2016.

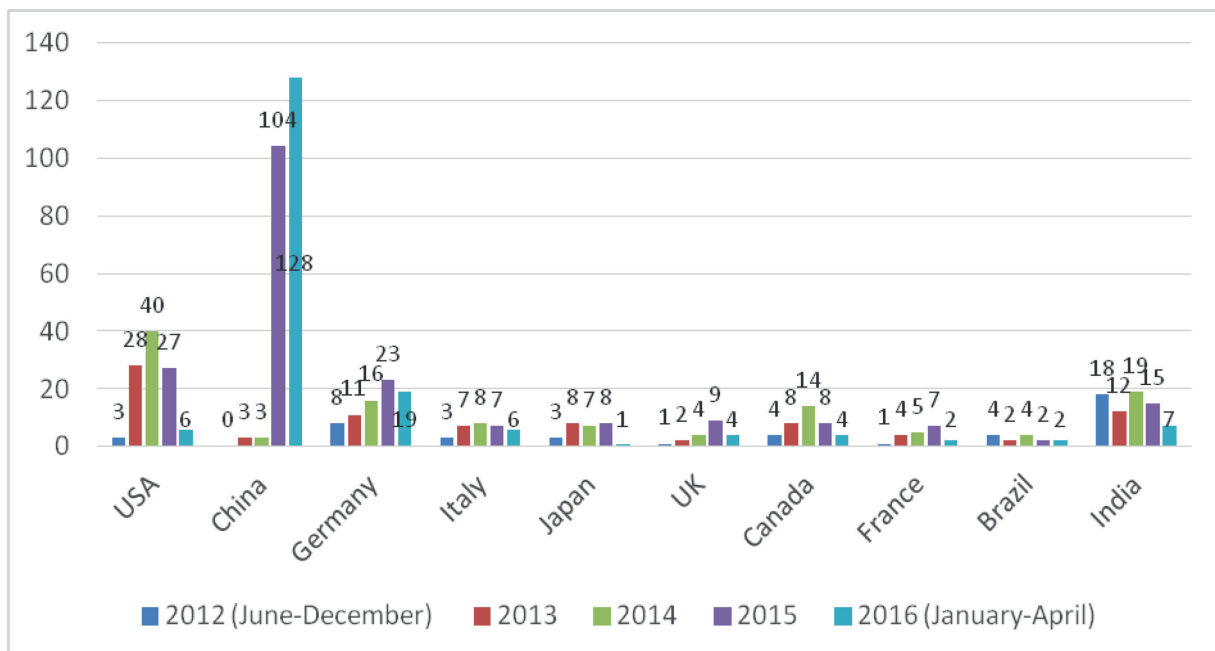
Publication Statistics





The figure below shows the geographical distribution of new submissions from 2012 to 2016. We received submissions from 42 countries.

Authors from China are the largest contributors with 45%, followed by authors from USA (19.7%), Germany (14.6%), and India (13.4%).



*Please note that this graph includes only the top 10 contributing countries. There are many other countries which contributed smaller amounts of papers in past four years.

Trend in Submissions and Rejection Rates

The number of submissions keeps increasing from 2012 till now. Please see in the following table and

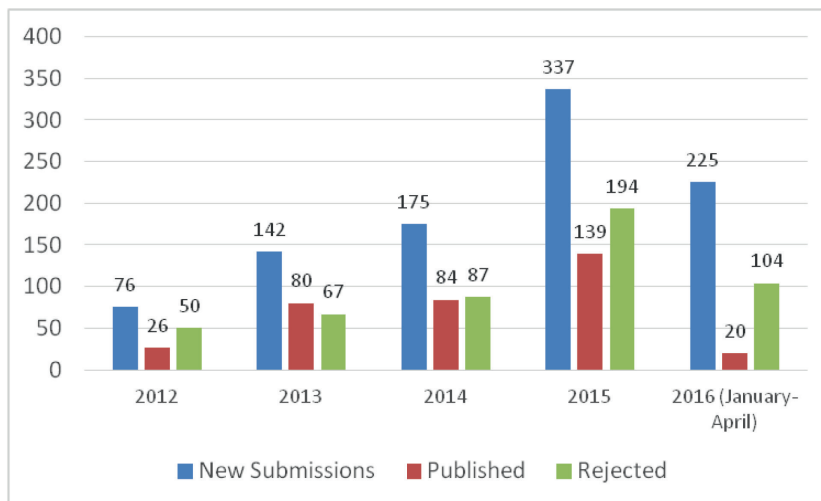
graph a representation of the trends in submissions, accepted and rejected papers from 2012 till now.

Year	New Submissions	Accepted Papers (published)	Rejected Papers (=Rejected before and after review)	Rejection Rate*
2012	76	27	50	64.9%
2013	142	80	67	45.6%
2014	175	84	87	50.9%
2015	337	139	194	58.3%
2016	225	20	104	83.9%

*The number of accepted papers, rejected papers and rejection rate are from the submissions received in a year, not from the total decisions made in a year, as some of the submitted papers may have still been under review when we calculated.

The main reason for rejecting manuscripts before peer review is that manuscripts are of poor quality, such as poor language, insufficient references, too

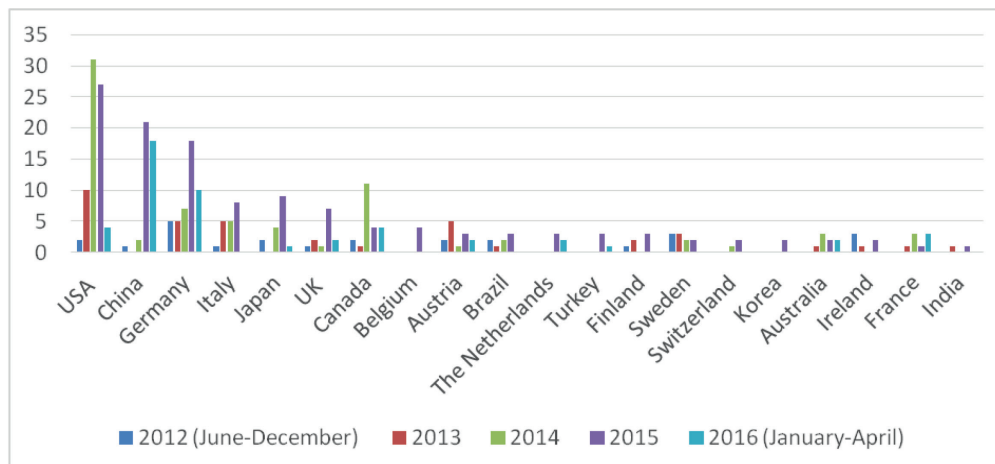
short in length (some research articles are less than seven pages, without figures and tables), etc.



Contributing Countries

The following figure shows the number of published papers by corresponding author’s country. Manuscripts from USA (21.2%), Germany (12.9%), Canada (6.3%), and Italy (5.4%) seem more likely to

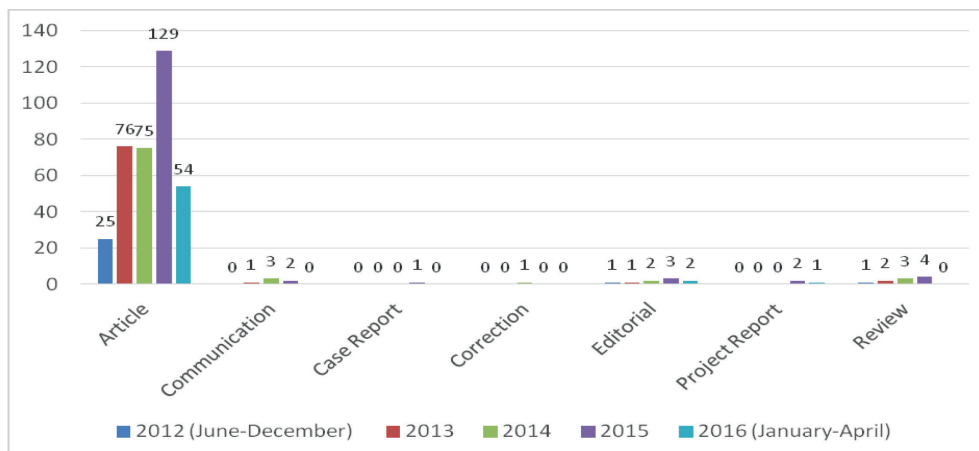
be accepted. Although there are 12% of published papers from China, comparing with the submissions (45% submissions are from China), the acceptance rate is low.



Type of Published Papers

92.6% (2012), 95% (2013), 89.3% (2014), 91.5% (2015), 94.7% (2016).

Among all the different types of contributions the percentages of published articles in each year were:



Turnaround Time

The average publication time (submission to online publication) for 2012 was **112.3** days, for 2013 was **95.6** days, for 2014 was **107.2** days, for 2015 was **116** days and for 2016 was **92.5** days. The shortest time was 35 days and the longest, 329 days. The main factors affecting the processing time are: 1) paper quality (the most important factor); 2) revision time; 3) review time; 4) decision time. Rapid publication is very important, not only for authors, but also for the journal reputation. We

need to improve the processing speed while ensuring peer review quality.

Special Issues

During last four years, we have 22 special issues closed with more than five papers published. In 2016, there are 20 Special Issues open for submission: (the numbers in brackets represent papers still in process).

Special Issue Title	Guest Editors	Deadline	Papers Published (Under Processing)
<u>Big Data for Urban Informatics and Earth Observation</u>	Jamal Jokar Arsanjani, Ming-Hsiang (Ming) Tsou	2016-04-30	2(3)
<u>Unmanned Aerial Vehicles in Geomatics</u>	Gonzalo Pajares Martinsanz	2016-04-30	2(3)
<u>Recent Trends in Spatial Analysis and Modelling of Built-Environment Characteristics</u>	Martin Behnisch, Gotthard Meinel	2016-03-31	0(9)
<u>Research Data Management</u>	Constanze Curdt, Christian Willmes, Georg Bareth	2016-01-31	11(6)
<u>Geo-Information Fostering Innovative Solutions for Smart Cities</u>	Jochen Schiewe	2015-10-31	7
<u>Advances in Spatio-Temporal Data Analysis and Mining</u>	Emmanuel Stefanakis, Yaolin Liu, Phaedon Kyriakidis	2015-10-01	5
<u>Multi-Dimensional Spatial Data Modeling</u>	François Anton	2015-9-30	6(1)
<u>Bridging the Gap between Geospatial</u>	Songnian Li, Suzana	2015-8-31	8(4)

Special Issue Title	Guest Editors	Deadline	Papers Published (Under Processing)
<u>Theory and Technology</u>	Dragicevic, Xiaohua Tong		
<u>Borderlands Modeling and Analysis</u>	Xiao-guang Zhou, Weihua Dong	2015-5-31	5
<u>20 Years of OGC: Open Geo-Data, Software, and Standards</u>	Steve H.L. Liang, Mohamed Bakillah	2015-4-30	7
<u>Geoinformation for Disaster Risk Management</u>	Christoph Aubrecht	2015-4-30	17
<u>Open Geospatial Science and Applications</u>	Suchith Anand, Thierry Badard, Franz-Josef Behr, Serena Coetzee, Luciene Delzari, Barend Kobben	2015-1-30	9
<u>Selected Papers from the ISPRS Tracking and Imaging Challenge 2014</u>	Stephan Winter, Alper Yilmaz, Monika Sester	2015-1-15	5
<u>Recent Developments in Cartography and Display Technologies</u>	Julia Siemer	2014-12-15	5
<u>Spatial Analysis for Environmental Applications</u>	Linda See	2014-11-30	7
<u>GIS for Sustainable Urban Transport</u>	Mark Zuidgeest, Martin van Maarseveen, Mark Brussel	2014-10-30	7
<u>Remote Sensing and Geospatial Technologies in Public Health</u>	Fazlay S. Faruque	2014-7-30	15
<u>Geoweb 2.0</u>	Alexander Zipf, Bernd Resch	2014-7-18	5
<u>Geographic Information Science and Remote Sensing Techniques for Sustainable Urban and Regional Planning</u>	Beniamino Murgante, Giuseppe Borruso, Maurizio Pollino, Federico Martellozzo	2014-5-31	5
<u>GIS for Renewable Energy</u>	Martin Raubal	2014-2-28	10
<u>GIS in Public Health</u>	Stefania Bertazon	2013-11-30	5
<u>Coastal GIS</u>	Timothy Nyerges	2013-9-30	10
<u>Indoor Positioning and Indoor Navigation</u>	Harald Sternberg	2013-3-31	7
<u>Collaborative Mapping</u>	Linda See, Steffen Fritz, Jan De Leeuw	2013-4-30	7
<u>Geospatial Monitoring and Modelling of Environmental Change</u>	Duccio Rocchini	2012-12-31	8

There are currently 21 Special issues open for submissions:

Special Issue	Guest Editor	Deadline
<u>Spatial Ecology</u>	Duccio Rocchini	2016-05-31
<u>Geographic Information Retrieval</u>	Kathleen Stewart, Alexander Klippel	2016-05-31
<u>Mathematical Morphology in Geoinformatics</u>	Beatriz Marcotegui	2016-06-30
<u>Location-Based Services</u>	Georg Gartner, Haosheng Huang	2016-06-30
<u>Geosensor Networks and Sensor Web</u>	Silvia Nittel	2016-07-31
<u>3D Indoor Modelling and Navigation</u>	Sisi Zlatanova, Kourosh Khoshelham, George Sithole	2016-08-31
<u>Web/Cloud Based Mapping and Geoinformation</u>	Bert Veenendaal, Maria Antonia Brovelli, Serena Coetzee, Peter Mooney	2015-09-30
<u>Recent Advances in Geodesy & Its Applications</u>	Zhao-Liang Li, Jose A. Sobrino, Chao Ren	2015-09-30
<u>Geospatial Semantics and Semantic Web</u>	E. Lynn Usery, Dalia Varanka	2016-09-30
<u>Geospatial Big Data and Transport</u>	Bin Jiang, Constantinos Antoniou	2016-09-30
<u>Advances and Innovations in Land Use/Cover Mapping</u>	Qiming Zhou, Zhilin Li	2016-10-31
<u>Volunteered Geographic Information</u>	Alexander Zipf, David Jonietz, Vyron Antoniou, Linda See	2016-11-30
<u>Advances in Geo-Information for Environmental Forensics and Environmental Risk Management in the Anthropocene</u>	Jason K. Levy	2016-11-30
<u>Analysis and Applications of Global Land Cover Data</u>	Jun Chen, Songnian Li, Shu Peng	2016-12-1
<u>Intelligent Spatial Decision Support</u>	Shih-Lung Shaw, Qingquan Li, Yang Yue	2016-12-31
<u>Frontiers in Spatial and Spatiotemporal Crime Analytics</u>	Marco Helbich, Michael Leitner	2016-12-31
<u>Applications of Internet of Things</u>	Chi-Hua Chen, Kuen-Rong Lo	2016-12-31
<u>Intelligent Spatial Decision Support</u>	Shih-Lung Shaw, Qingquan Li, Yang Yue	2016-12-31
<u>Smart Solutions for Disaster Risk Reduction: Big Data Concepts for Disaster Risk Reduction (DRR)</u>	Milan Konecny	2017-1-31
<u>Spatiotemporal Computing for</u>	Yichun Xie, Xinyue Ye	2017-2-28

Special Issue	Guest Editor	Deadline
<u>Sustainable Ecosystem</u>		
<u>Research and Development Progress in 3D Cadastral Systems</u>	Peter van Oosterom, Efi Dimopoulou	2017-03-31

Editorial Board

Changes in the Editorial Board

Dr. George P. Petropoulos, Dr. Jamal Jokar Arsanjani, Dr. Tanvir Islam and Dr. Tao Cheng joined the Editorial Board from 2014 till now. Dr. Martien Molenaar resigned because of retirement. The size of the board is now 31 members.

Editorial Board Members and Other ISPRS Members Contributions

Special Issues

Eight Editorial Board members and another 20 ISPRS members helped edit 21 special issues in past four years. They are: Sisi Zlatanova (Editorial Board member), Qiming Zhou (Editorial Board member), Josef Strobl (Editorial Board member), Michael Leitner (Editorial Board member), Milan Konecny (Editorial Board member), Bin Jiang (Editorial Board member), Christoph Aubrecht (Editorial Board

member), Monika Sester (Editorial Board member), Marguerite Madden, Stephan Winter, Alper Yilmaz, Suchith Anand, Steve H.L. Liang, Mohamed Bakillah, Xiao-Guang Zhou, Weihua Dong, Songnian Li, Suzana Dragicevic, Xiaohua Tong, François Anton, Emmanuel Stefanakis, Yaolin Liu, Maria Antonia Brovelli, Yang Yue, Jun Chen, Songnian Li.

Submission Contribution

13 Editorial Board members contributed manuscripts to IJGI in past four years.

Review

11 Editorial Board members reviewed manuscripts for IJGI in past four years.

Decision

14 Editorial Board members made decisions for IJGI in past four years. The detailed information can be found in following table:

First Name	Last Name	Submission	Review	Decision	Special Issue
Ozgun	Akcay	2	0	2	0
Christoph	Aubrecht	0	1	19	1
Emmanuel	Baltsavias	0	0	0	0
Norbert	Bartelme	0	1	2	0
Jun	Chen	3	0	0	1
Tao	Cheng	0	0	0	0
Mahmoud R.	Delavar	4	2	1	0
Manfred	Ehlers	0	0	0	0
Sérgio	Freire	0	1	3	0
Chris	Gold	1	0	0	0
Bin	Jiang	4	0	4	1
Marinos	Kavouras	0	0	1	0
Milan	Konecny	0	1	0	1
Michael	Leitner	1	2	2	1
Marguerite	Madden	1	1	1	4
Ammatzia	Peled	1	0	1	0
Monika	Sester	1	0	0	1
Wenzhong	Shi	0	0	0	0
Andrew	Skidmore	0	0	0	0
Josef	Strobl	2	1	1	0

Xinming	Tang	0	0	0	0
Vladimir	Tikunov	0	0	0	0
Wolfgang	Wagner	1	1	0	0
Qiming	Zhou	1	0	5	1
Sisi	Zlatanova	3	0	4	2
Carlos	Granell Canut	1	8	0	0
Jason K.	Levy	0	0	0	1
George P.	Petropoulos	0	0	0	0
Jamal Jokar	Arsanjani	0	2	0	0
Tanvir	Islam	0	0	1	0

April 2015, the theoretical IF for 2015 is 0.9938. The journal also been covered by Scopus in 2016.

Indexing

The journal has been covered by Science Citation Index Expanded (Web of Science) since

<i>Journal Name:</i>
<i>ISPRS International Journal of Geo-Information</i>

(excluding corrections, retractions, editorials; query mdpi.com journal page)

Papers published 2013	79
Papers published 2014	81
Sum	160

Citations in 2015 to articles published in 2013	87
Citations in 2015 to articles published in 2014	72
Sum	159

Theoretical IF (2015)	0.9938
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Please see Appendix 2 for the top 10 most cited papers published from 2016 till now.

Marketing and Promotions

From 2012 till now, 36 call-for-papers campaigns were carried out. We invited former authors and reviewers of IJGI and other potential authors to publish papers. *ISPRS IJGI* was promoted at conferences through various activities:

Name of the Conference	Activity
ISPRS WG VIII/2-Health Symposium, 24–30 August 2013	Special issue promotion
ISPRS/IGU/ICA Joint Workshop on Borderlands Modeling and Understanding for Global Sustainability, 5–6 December 2013	Special issue promotion
PECORA 19, 17-20 November 2014	Journal flyers distributed

2014 ISPRS TC II Midterm Symposium, 6–8 October 2014	Special issue promotion
Data Management Workshop, 28–29 November 2014	Special issue promotion
International Land Use Symposium (ILUS) 2015, 11–13 November 2015	Sponsorship of "get together".
International Workshop on Image and Data Fusion (IWIDF 2015), 21–23 July 2015	EiC travel grant
XXIII ISPRS Congress, 12–19 July 2016	Booth and Editorial board member meeting

7. Conclusions and Areas for Development

IJGI had a very positive performance in the past four years, showing growth in all its performance indicators: number of published papers, submissions, number of pdf downloads. In 2016 we will continue to work towards further improving the quality of the papers published, reducing the processing speed, improving the number of

published papers, enhancing the brand of the journal, and increasing the readership of the journal. We will also promote among authors and at different venues the news about the forthcoming Impact Factor.

Wolfgang Kainz, Editor in Chief

Appendix 1

Top 10 of most downloaded articles published from 2012 till now:

#	Title	Author Name	Downloads
1	GIS-Based Planning and Modeling for Renewable Energy: Challenges and Future Research Avenues	Bernd Resch, Günther Sagl, Tobias Törnros, Andreas Bachmaier, Jan-Bleicke Eggers, Sebastian Herkel, Sattaya Narmsara and Hartmut Gündra	4,270
2	Transport Accessibility Analysis Using GIS: Assessing Sustainable Transport in London	Alistair C. Ford, Stuart L. Barr, Richard J. Dawson and Philip James	4,149
3	An Analysis of Geospatial Technologies for Risk and Natural Disaster Management	Luiz A. Manfré, Eliane Hirata, Janaína B. Silva, Eduardo J. Shinohara, Mariana A. Giannotti, Ana Paula C. Larocca and José A. Quintanilha	3,342
4	GIS-Based Analytical Tools for Transport Planning: Spatial Regression Models for Transportation Demand Forecast	Simone Becker Lopes, Nair Cristina Margarido Brondino and Antônio Néson Rodrigues da Silva	3,124
5	Indoor Positioning for Smartphones Using Asynchronous Ultrasound Trilateration	Viacheslav Filonenko, Charlie Cullen and James D. Carswell	2,551
6	Effects of Pansharpening on Vegetation Indices	Brian Johnson	2,358
7	Modeling Urban Land Cover Growth Dynamics Using Multi-Temporal Satellite Images: A Case Study of Dhaka, Bangladesh	Bayes Ahmed and Raquib Ahmed	2,253
8	A Conceptual Flash Flood Early Warning System for Africa, Based on Terrestrial Microwave Links and Flash Flood Guidance	Joost C. B. Hoedjes, André Kooiman, Ben H. P. Maathuis, Mohammed Y. Said, Robert Becht, Agnes Limo, Mark Mumo, Joseph Nduhiu-Mathenge, Ayub Shaka and Bob Su	2,174

9	Analyzing the Contributor Activity of a Volunteered Geographic Information Project—The Case of OpenStreetMap	Pascal Neis and Alexander Zipf	2,082
10	Pygrass: An Object Oriented Python Application Programming Interface (API) for Geographic Resources Analysis Support System (GRASS) Geographic Information System (GIS)	Pietro Zambelli, Sören Gebbert and Marco Ciolli	2,063

Appendix 2

Top 10 cited papers published from 2012 till now:

Authors	Article	Citations	Publication Year
Pascal Neis and Alexander Zipf	Analyzing the Contributor Activity of a Volunteered Geographic Information Project —The Case of OpenStreetMap	51	2012
Bayes Ahmed, and Raquib Ahmed	Modeling Urban Land Cover Growth Dynamics Using Multi-Temporal Satellite Images: A Case Study of Dhaka, Bangladesh	19	2012
Steven P. Jackson, William Mullen, Peggy Agouris, Andrew Crooks, Arie Croitoru and Anthony Stefanidis	Assessing Completeness and Spatial Error of Features in Volunteered Geographic Information	18	2013
Pascal Neis, Marcus Goetz and Alexander Zipf	Towards Automatic Vandalism Detection in OpenStreetMap	18	2012
Xinlian Liang, Juha Hyyppä, Harri Kaartinen, Markus Holopainen and Timo Melkas	Detecting Changes in Forest Structure over Time with Bi-Temporal Terrestrial Laser Scanning Data Role of Demographic, Infrastructure and Topo-Edaphic Factors	15	2012
Viacheslav Filonenko, Charlie Cullen and James D. Carswell	Indoor Positioning for Smartphones Using Asynchronous Ultrasound Trilateration	13	2013
David Fairbairn and Maythm Al-Bakri	Using Geometric Properties to Evaluate Possible Integration of Authoritative and Volunteered Geographic Information	11	2013
Jean-François Mas, Britaldo Soares Filho, Robert Gilmore Pontius, Michelle Farfán Gutiérrez and Hermann Rodrigues	A Suite of Tools for ROC Analysis of Spatial Models	9	2013
Sarah M. Lewis and Maggi Kelly	Mapping the Potential for Biofuel Production on Marginal Lands: Differences in Definitions, Data and Models across Scales	9	2014
Robert Hecht, Carola Kunze and Stefan Hahmann	Measuring Completeness of Building Footprints in OpenStreetMap over Space and Time	9	2013

Report of ISPRS Book Series Editor, Zhilin Li

A Review of ISPRS Book series

Commencement in 2004

The ISPRS Book Series was established in 2004. The main objective is to publish the selected paper from ISPRS Workshops organized by working groups.

The first book consists of a collection of papers presented at “ISPRS Workshop on Spatial Analysis and Decision Making” held in Hong Kong during 3–5 December 2003. The book was entitled “*Advances in Spatial Analysis and Decision Making*” (Z. Li, Q. Zhou, W. Kainz, 2004).

Growth during 2004-2012

A total of 11 volumes were published between 2004 and 2012. A variety of topics have been covered. The last volume of the series was entitled “*Environmental Tracking for Public Health Surveillance*” (Stanley A. Morain & Amelia M. Budge, 2012).

A Transfer of Function since Melbourne Congress

At the Melbourne Congress, held in 2012, the Annals were established to publish reviewed papers for ISPRS Congresses, Commissions Symposia and Working Group workshops. The Annals have effectively taken over the function of the Book Series.

Progress in Current Term

A Transformation Proposed at Melbourne

During the current term, the council agreed to a transformation from edited books to authored books, as the Annals has in fact successfully replaced the function of the Book Series. The authored book could be textbooks, research monographs and books with topics of special interest. Edited books for special topics are not excluded and the volumes may vary markedly in character, but are often:

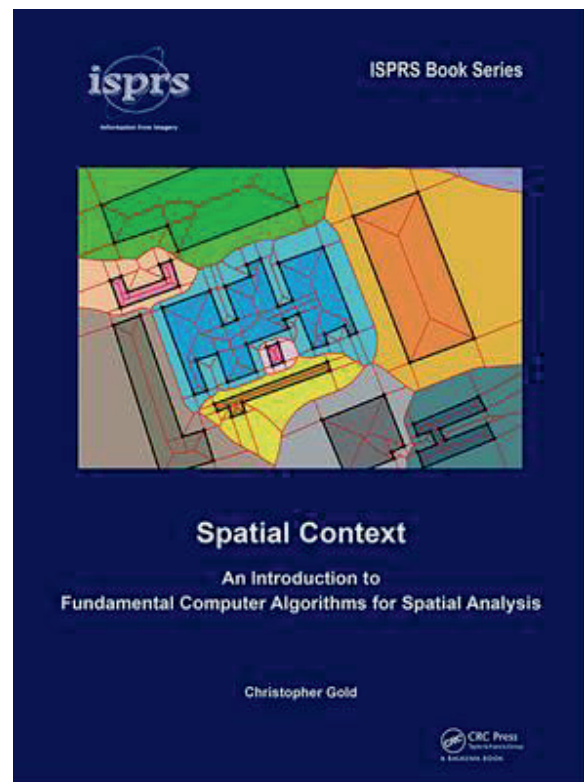
- edited volumes (papers invited on a particular theme)
- text books (general overview of a significant subject) or
- monographs (in-depth study on a specific topic).

First Research Monograph Published

Efforts have been made to solicit authored books from the ISPRS community, through newsletters, contact with commission presidents, working group chairs and individual researchers.

But the result is not as good as imagined. Researchers feel that it will take a long time to complete an authored book and thus reluctant to make commitments.

Prof. Chris Gold, the WANG Zhizhuo Award Receiver in 2008, has done an excellent job and published his research monograph in this series. It is entitled *Spatial Context: An Introduction to Fundamental Computer Algorithms for Spatial Analysis* (Chris Gold, 2016).



A change of Royalty Rule

Previously, the royalty of a book published in the ISPRS book series went to the ISPRS. However, a change has been made by the council that the royalty go to the author(s) in order to encourage publication in this series.

A Plan for Next 4 Years

It is hoped that the book by Prof. Chris Gold opens a new door for the Book Series and that more will be published in the next 4 years.

A Book for 80th Anniversary of the ISPRS Journal



The Photogrammetria, now called ISPRS journal for Photogrammetry and Remote Sensing, was first published in 1938. The journal has undergone fast development over 80 years. Therefore, it is pertinent to have a close examination of the milestones in such a development. It is planned and agreed by the current council members to produce a volume for the 80th Anniversary celebration. The volume may be named "Classics of Photogrammetry, Remote Sensing and Geo-information Sciences", or "Milestones of Photogrammetry, Remote Sensing and Geo-information Sciences". It should contain the papers

which have played key roles in the development of Photogrammetry, Remote Sensing and Geo-information sciences.

A working group, consisting of the book series editor, ISPRS journal editors, some council members and/or their representatives, should be formed to work on this book.

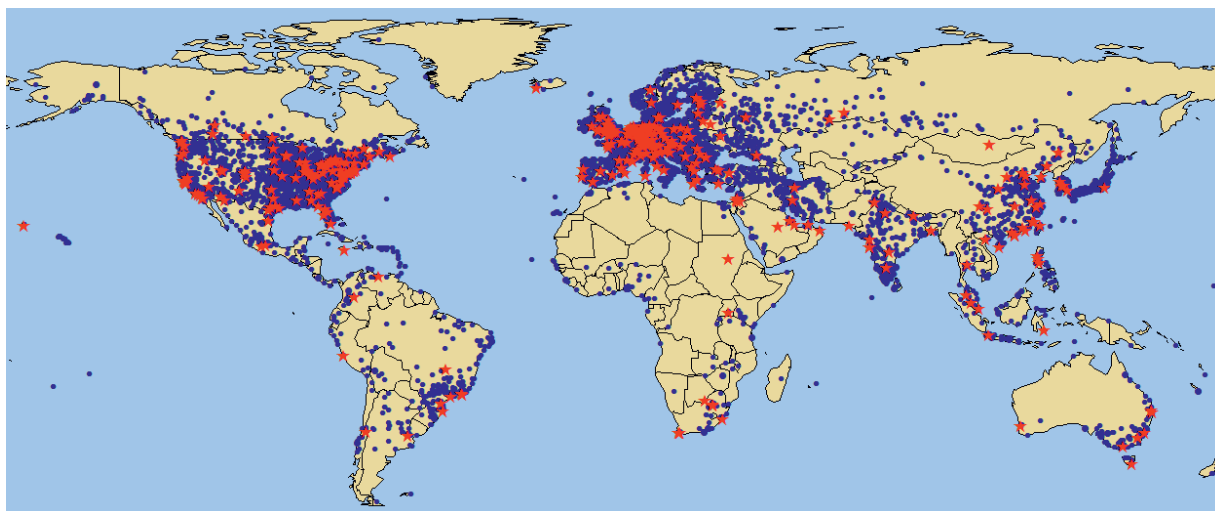
Other Plans

It is planned to

- 1 Solicit some ideas from active members on hot topics, e.g. global land cover mapping;
- 2 Solicit some ideas from retired members on some important topics; and
- 3 Solicit some books which are to be revised for new versions.

Zhilin Li, Editor in Chief

Report on the ISPRS Web Site, Markus English



1. Statistics

Currently, we host 1100 aspx files (main html files), about 3000 html files of older documents and more than 20000 PDFs, thereof more than 80% papers. The most visited areas have been publications, calendar, job opportunities and the blog about the revision of the ISPRS commission structure. The mean number of visitors per month increased in the last term from about 25000 to 35000.

The map shows where our visitors come from. The red stars mark the most active cities, dark blue circle cities with average activities and the small blue circle cities with lower activities. It shows that

the visitors come from around the world but with some concentrations in USA, Europe, and East Asia.

2. Second Web Server for TC and WG Websites

Since 2012, a second webserver with a Content Management System (CMS) has been available to host the TC and WG websites – in total 68. Each Group (TCs and WGs) has their own area with folders and rights which was prepared with a uniform structure and a common layout. They had to fill their pages with content themselves – by their own webmaster – but in case of problems, support was offered. In general, this service was used very well, but differences in usage and updating of these "websites" exist. Some symposium websites (TC II

and IV) were hosted on this server as well. A third one (TC I) was hosted on the main web server. On demand some extra services were offered, such as registration forms with possible download of the content in Excel sheets, newsletters and displaying bibtext lists on web pages. This server was also used to offer a blog to discuss the new ISPRS structure between the Council and the community.

3. Setup of Some New Features

Since this term a lot of data is stored in databases. The offered member data on the ISPRS website are synchronized once a day with the administrated member database of the ISPRS headquarters. Calendar data and job opportunities are now stored in a database, thereby these pages can be updated automatically and "old" entries are no longer offered. Autonomous procedures to subscribe and unsubscribe to the email list are now used and the list itself is stored in a database as well.

For the new Individual membership, a registration interface with verification, approval by the office of

the SG and automated generation of the member certificates was developed and installed. It also offers an automatic renewal procedure after a certain period (currently 1 year).

For Sustaining members, a protected area has been implemented where they can access the digital version of the ISPRS Journal at Elsevier. Sustaining members are now promoted with their logos on the ISPRS website (left column under the menu). The promotion is set randomly and weighted (higher member class brings higher visibility on the ISPRS website).

4. Misc

Since 2013, the ISPRS Journal page has been hosted on our main server. The communication and cooperation with the office of the SG is very fast and professional.

Markus English, Web Master

Report of TIF (The ISPRS Foundation) Chair, Board of Trustees, Dieter Fritsch

1. Introduction

The ISPRS Foundation Inc. is a non-profit entity, managed by a Board of Trustees, which responds to ISPRS grant needs that are identified by the ISPRS Council. The ISPRS Council will solicit proposals for grants and then collaborate with TIF Board to support worthy candidates. The Board of Trustees is responsible for fund raising, investment, management and approval for grants of Foundation funds. Day-to-day operations of the Foundation are managed by an Executive Committee (ExCom), comprising the Chair, Operations Officer and Finance Officer. Decisions requiring approval by the Board are made by electronic ballots. It is required that the Board meets regularly in conjunction with the ISPRS Congress or otherwise by teleconference.

The ISPRS Foundation (TIF) was legally established in August 2003 and the Board of Trustees, comprised of prominent professionals in the fields of ISPRS, were then appointed. TIF has as its aims to improve the ability of ISPRS to satisfy its philanthropic aims and objectives, by administering a broadly-based international program of fund-raising to provide grants to qualified individuals and organizations, pursuing and/or applying knowledge for advancing the sciences and technologies associated with the disciplines embodied by ISPRS.

The areas that are expected to be funded by The ISPRS Foundation include awards, awareness education, distance learning, exchange programs, fellowships, grants, international workshops, internships, preservation and archiving, research initiatives, scholarships, standards projects, tools and literature, and travel grants. It is contributing significantly to the efforts of ISPRS in capacity building, international cooperation and technology transfer. The Foundation has now been in operation for almost 13 years. The first grants were provided to participants to attend the Mid-term Symposia in 2006 and further grants have been awarded every year since then.

2. Summary of TIF BoT Decisions Melbourne 2012

During the last meeting of the TIF BoT at the ISPRS Melbourne Congress, 27 August 2012 the following decisions were made:

- Changes were recommended to the Bylaws to allow the Chair Dieter Fritsch to continue for a further term. *These changes were implemented, so that Dieter Fritsch could extend his term till July 2016.*

- Existing Officers were re-elected as listed below.
- Recommendations were made on future members of the Board and committees as listed below.
- Juergen Dold offered the assistance of Sara Vermeulen from Leica Geosystems, Heerbrugg, to review TIF's marketing plan. *Subsequently, recommendations were received from Sara Vermeulen, including the preparation of a newsletter on a quarterly basis. This newsletter is now incorporated into the ISPRS Bulletin.*
- Regarding financial management:
 - TIF should try to maintain its capital base and therefore increase its donations.
 - Trustees should aim to boost capital by 5% per year after expenditure.
 - TIF should not fund science initiatives in future.
 - TIF should aim to allocate funds with max. \$30,000 per year.

3. TIF Activities and Funding 2012-2016 (Travel Grants for 2013, 2014, 2015, 2016)

TIF provided funding for the following activities throughout the past 4 years:

2012 - Total USD 33,910.00

Travel Grants: USD 26,600.00

Partial travel grants were awarded for 11 participants to attend ISPRS Congress in Melbourne, Australia.

Congress Awards: USD 7,310.00

Wang Zhizhuo Award (CHF 2,500 or USD 2,560)

Frederick J. Doyle Award (USD 2,500)

CATCon (3) Awards (USD 2,250) of Gold (USD 1,000), Silver (USD 750) and Bronze (USD 500) for winners of software contest organized by ISPRS Commission VI Working Group 2, Computer Assisted Teaching and sponsored donor companies.

2013 – USD 20,649.79

International Workshops – USD 12,678.11

9th ISPRS Student Consortium and WG VI/5 Summer School, 25-30 October 2013, Bali, Indonesia (USD 4066.11)

10th ISPRS Student Consortium and WG VI/5 Summer School, 28 October – 1 November, 2013 at Addis Ababa, Ethiopia (USD 8,612.00)

Travel Grants: USD 7,971.68

ISPRS Hannover Workshop 'High-Resolution Earth Imaging for Geospatial Information', at Leibniz University Hannover Germany, from 21-24 May 2013 (USD 3,750)

ISPRS Conference on Serving Society with Geoinformatics –SSG-2013, Joint Meeting, 11-17 November 2013, Antalya, Turkey (USD 2,953.30)

Student Consortium Representative to ISPRS SC and WG VI/5 Summer School, Addis Ababa, 29 October to 2 November 2012, (USD 1,268.38)

2014 - Total USD 33,443.22

International Workshops – USD 4,952.22

ISPRS Student Consortium, 3S and WG VI/5 Summer School, Wuhan, China (USD 3,000.00)

Support, Student Consortium representative to attend SC/WG VI/5 Summer Schools (USD 1,952.22)

Travel Grants: USD 28,491.00

Partial travel grants were awarded for 29 participants from 16 countries to attend ISPRS Symposia for Commissions I to VIII.

2015 – USD 24,376.02

International workshops – USD 11,423.78

ISPRS Student Consortium and WG VI/5 Summer Schools at ACRS, Myanmar (1-5 November 2014) and Philippines (23-28 October 2015)

Students Summer School (3S), Moscow, Russia (13-16 August 2015)

Travel grants – USD 12,952.24

Photogrammetric Image Analysis (PIA) 2015 and HRIGI in Munich 25-27 March 2015 – USD 3,952.24

ISPRS Geospatial Week-2015 28 September – 3 October 2015, La Grande Motte, France – USD 9,000

2016 - (Estimated Total USD 53,462 with contribution from ISPRS of approximately USD 29,000)

Travel Grants for 63 grantees to attend the ISPRS Congress in Prague (USD 30,000)

International workshops – (Estimated USD 12,757)

IEEE-ISPRS Summer Schools in Curitiba, Brazil (29 October to 1 November 2015) and Sao Paulo, Brazil (19-21 October 2016)

ISPRS Student Consortium and WG VI/5 Summer School, Prague Congress (10 July 2016)

Congress Awards – (Estimated USD 10,705)

Wang Zhizhuo Award of CHF 2,500 or USD 2,560)

Frederick J. Doyle Award (USD 2,500) and medal (USD 720)

IGI Africa Ambassador Award (EUR 2,500 or USD 2,675)

CATCon (3) Awards (USD 2,250) of Gold (USD 1,000), Silver (USD 750) and Bronze (USD 500) for winners of software contest organized by ISPRS Commission VI Working Group 2, Computer Assisted Teaching and sponsored donor companies.

Total grants for the period 2012-2015 total USD 112,379 with an additional USD 53,462 expected to be granted in 2016.

4. TIF IGI Africa Ambassador Award

IGI has offered the IGI Ambassador Award, via The ISPRS Foundation (TIF) valued at €2,500 per year, to young scientists in photogrammetry and laser scanning coming from regionally under-represented African countries in the geospatial sciences and technology fields. The award allows for visits at IGI's Central Office, Kreuztal, Germany, and active participation at ISPRS Workshops, Conferences, and Symposia. The first recipient of this award was M.Sc. Muna Khamis Birra Ali, Khartoum, Sudan who

visited IGI in Kreuztal in March 2016 as well as the Institute for Photogrammetry at the University of Stuttgart, and nFrames in Stuttgart. A further award is available for 2016.

5. White Elephants Travel Grants

A *White Elephants Restricted Travel Grant Fund* has been established in The ISPRS Foundation to support young people to attend ISPRS events and especially the quadrennial ISPRS Congresses. The restricted grant category will be funded by senior members of ISPRS, who are members of the White Elephants, (a group of TIF former officers, TIF Honorary Members and Fellows) and who wish to demonstrate their continued commitment to the aims and goals of ISPRS. By supporting young outstanding scientists worldwide to attend ISPRS international scientific events, the White Elephants Travel Grants will demonstrate their commitment to the future of ISPRS. The support for these young people will encourage and equip them to take over the leadership of ISPRS in the future. The White Elephants Travel Grants are offered for the first time in 2016 for awardees to attend the ISPRS Congress in Prague.

6. Financial Statements (2012-2016)

The Bylaws were constructed in accordance with regulations to be exempt from Federal and other taxation. The Foundation's net worth is expressed as Net Fair Market Value (NFMV). Over the past 4 years, the year-end NFMV in US\$, the amount of grants, administrative costs, and investment earnings are listed in Table 1 below.

Table 1. TIF Net Fair Market Value (NFMV), Grants, Admin Costs, Earnings and Donations

Year-end	NFMV	Grants Distributed	Operating Cost (% Admin Expense)	Investment Earnings	Donations
2012	\$ 170,206.27	\$ 34,905.54	\$ 1,350.00 (0.79%)	\$ 10,041.60	\$ 15,121.60
2013	\$ 166,761.89	\$ 20,649.79	\$ 75.00 (0.04%)	\$ 7,235.18	\$ 20,130.34
2014	\$ 162,306.03	\$ 33,443.22	\$ 1,675.00 (1.00%)	\$ 4,259.06	\$ 23,658.01
2015	\$ 148,559.28	\$ 24,376.02	\$ 2,850.00 (1.92%)	\$ 4,622.30	\$ 12,853.77
2016	TBD	~ \$ 53,462.00	TBD	TBD	TBD

General Comments:

- Donations from Leica Geosystems of USD 10,015 should be added to the NFMV for 2013 and 2014. Invoicing for these donations to

secure the payments was inadvertently omitted.

- Actions are solicited from Trustees, ISPRS Council and Delegates to the General Assembly to improve the number of donations

received by TIF. The level of donations is generally lower than required to satisfy the Board's intention in 2012 of boosting capital by 5% per year and providing USD 30,000 per year in grants.

- The online donation capability using PayPal has been initiated with buttons providing options for donations in USD, CHF and Euro.
- Pledges to TIF by members of the White Elephants Club have been rejuvenated following the Melbourne Congress and the
- development of the White Elephants Travel Grant.
- Efforts to solicit new donations from TIF Sustaining Members are ongoing and assistance by Trustees and ISPRS Council is encouraged.
- Due low interest rates earnings have reduced over the past 4 years.
- Unrealized losses and gains are being experienced due to fluctuations in the market values of TIF's investments.

Acknowledgement of Major Donors

- The annual generous donations by Leica Geosystems of CHF 5,000 per year (period 2012-2016) are acknowledged and gratefully received.
- A generous donation of USD 4,990 from Geoway, (China) is acknowledged and gratefully received.
- The donation of € 2,500 per year (period 2014-2016) for the IGI Ambassador Program from IGI Kreuztal, Germany, is acknowledged and gratefully received.
- ISPRS Council for continued financial support for TIF activities over the past 4 years.

Board of Trustees – 2012-2016

The Board of Trustees comprises 11 persons, who are appointed by ISPRS Council. Only two members of the Board of Trustees may be members of the existing Council of ISPRS. Trustees are leaders in fields of the photogrammetry, remote sensing and spatial information sciences, who have significant knowledge and experience in the needs of industry and governments. Membership of the Board reflects the international character and diversity of the Society. Trustees do not receive any salary or other compensation for their services.

Current Board Members

Dieter Fritsch, Stuttgart University, Germany – Chair and ExCom Officer

John Trinder, University of New South Wales, Australia – Operations and ExCom Officer

Marguerite Madden, University of Georgia, Athens GA, USA – Finance and ExCom Officer

Chen Jun (China) – ISPRS COUNCIL REP

Jon Mills (UK) - ISPRS COUNCIL REP

Juergen Dold, President, Hexagon Geosystems, Heerbrugg, Switzerland

Lewis Graham – President/CTO GeoCue Group, Huntsville, USA

Mazlan Othman, Director UN Office of Outer Space Affairs (UN_OOSA), Vienna, Austria

Li Deren (China) – Wuhan, China, newly appointed September 2012

Mario Hernandez (Switzerland), newly appointed March 2014

Lawrie Jordan ESRI, Redlands, USA, newly appointed August 2014

Former Board Members

Akihiro Yamura (Japan) - Term ended in 2012

Lawrence Fritz – Term ended in July 2013

Vanessa Lawrence - Director General & Chief Executive Ordnance Survey (UK) – Term ended July 2013

Special thanks and acknowledgements are extended to all present and past Board members for their commitment and contributions to the work of The ISPRS Foundation.

Office Bearers – 2012-2016

Chair – Dieter Fritsch

Operations Officer – John Trinder

Finance Officer – Marguerite Madden

Board Meetings

A meeting of the TIF Board of Trustees was held on 27 August 2012 during the XXIInd ISPRS Congress, Melbourne, Australia, with 8 Board members in attendance.

A meeting will also be held in Prague during the XXIIIrd Congress on Sunday 17 July 2016.

Committees

The Board has established the following Committees to assist it in its operations. Members

of these Committees and Terms of Reference are given in the Appendix.

- Marketing and Promotions Committee
- Grants Evaluation Committee
- Large Grants Procurement Committee
- Audit Committee

Conclusions and Outlook

The continued need to provide assistance to young scientists to attend international workshops and ISPRS sponsored events has placed strong demands on TIF to attract funds. Nevertheless, TIF has been able to provide assistance to many young scientists from developing countries throughout the past 4 years.

The Net Fair Market Value (NFMV) has not increased to satisfy the Board's resolutions in 2012 to boost capital by 5% per year and providing USD 30,000 per year in grants. However, despite the difficult financial times the NFMV has remained close to the same amount of approximately USD 170,000 given the generous support of major donors for which the Board are very much appreciative. (Note: Although the NFMV dipped slightly below USD 150,000 in 2015, it is expected to increase in 2016 due to some 2013 and 2014 and new 2016 donations, all being received in 2016.) All persons involved in ISPRS are urged to seek donors for the Foundation so that its very beneficial work can continue.

Dieter Fritsch, Chair

APPENDIX - TIF COMMITTEES

Grants Evaluation Committee

Terms of Reference

1. Make recommendations to the Board of Trustees on priorities for grants in any 12 month period.
2. Consider applications for grants and make recommendations to the Board of Trustees.
3. Generally advise the Board on matter relating to grants.

Members of Grants Evaluation Committee

Chair – Jon Mills (UK) Chair

Nguyen Dinh Duong (Vietnam)

Hussein Farah (Kenya)

Sisi Zlatanova (Netherlands)

Norbert Pfeiffer (Austria)

- Procedures for publicizing the goals and aims of The ISPRS Foundation to international grant funding agencies/foundations
- Appropriate procedures and points of contact for applying for grants from international agencies/foundations
- Procedures for renewal/maintenance of annual grants from international agencies/foundations.

Members of Large Grants Procurement Committee

Trustee – Dieter Fritsch (Germany) (Chair)

Member – John van Genderen (The Netherlands)

Member – Clive Fraser – (Australia)

Member - Alex Hoffman (USA)

Large Grants Procurement Committee

Terms of Reference

Advise and support the Board of Trustees on:

- International grant funding agencies/foundations, that would be sympathetic to the aims of The ISPRS Foundation and should be approached for financial support of The ISPRS Foundation

Audit Committee

Terms of Reference of Audit Committee

The responsibilities of the Audit Committee are to advise the Board of Trustees with its:

1. Submission of a report every February of its findings resulting from its independent examination and audit of all Foundation income and expenses of the preceding year.
2. Recommendations for improving the rules and procedures governing the receipt, anonymity

and investment of gifts and donations, consistent with Foundation Bylaws and with federal and state law.

3. Recommendations for improving the rules and procedures governing the disbursement of grants, consistent with Foundation Bylaws and with federal and state law.
4. Prompt review of all proposed Foundation contracts and agreements to ensure consistency with Foundation Bylaws, as may be deemed necessary to carry on the business of the Foundation.
5. The term of members of the Committee will be three (3) years, with the term of the Chair for

one (1) year, when it will be passed to another member of the Committee.

Members of Audit Committee

Chair – Lewis Graham – President/CTO GeoCue Group (USA)

Trustee – John Trinder (Australia)

Member – Laurent Polidori (France)

Report of IPAC (International Scientific Advisory Committee) by Chair, Gunter Schreier

1. IPAC Chair, Members and Organisation

New IPAC Chair

In 2012, Mr. Gunter Schreier, deputy director of the German Remote Sensing Data Center at DLR in Oberpfaffenhofen, Germany, was appointed by the ISPRS Council as new Chair of the International Policy Advisory Committee (IPAC). The Council and all IPAC members thanked the outgoing chair, Mr. Rainer Sandau, for his excellent service for IPAC during the previous years.

New IPAC Members and Membership ToRs

One of the first tasks of IPAC, in 2012, was to review its structure and the membership composition of its committee. The ISPRS council accepted a proposal by the IPAC Chair which reviewed the IPAC membership. Therein, 5 members have finished their duties with IPAC and new members have been invited to join. The new members have been selected to better represent international organizations (such as GEO and space agencies), Earth observation companies, an increased representation from Africa and South America and more women. In total, the IPAC membership has been enlarged to now 16 members. The names of the IPAC members are displayed at the IPAC web site under:

<http://www.isprs.org/structure/ipac.aspx> .

The membership list is planned to be updated in 2016, as quite a few members have changed their affiliation.

Also, a revision of the terms of membership has been discussed. This aims for more flexibility and balance in the representation of groups and organizations involved in ISPRS and interested in ISPRS related policy issues.

IPAC Terms of Reference

The new IPAC also reviewed the IPAC ToRs. The general ToRs remained the same, while a specific expression “legal issues... in the context of ISPRS” has been added and the reference to specific international bodies has been generalized. The new ToRs are displayed at the IPAC web site.

IPAC Work Plan

In 2012, IPAC discussed a new work plan for the coming years. Apart from the standard duties to provide the ISPRS council with early warning of relevant international policy issues and the representation of ISPRS in international organizations and fora, the work plan proposed IPAC to be more active on establishing fora for exchange and publishing relevant papers and documents. Specifically, the work plan asked for the conduction of an IPAC specific workshop, addressing a variety of topics.

2. Representation at International Organizations

Amongst the duties of the IPAC chairs is the representation of ISPRS in selected international organizations. The IPAC Chair participated at the UNOOSA meetings in Vienna (Feb. 2013/Feb 2014).

Material from COSPAR was received, but no specific actions w.r.t. COSPAR were taken.

The IPAC Chair is also active as the Chairman of the Earth Observation Committee of the International Astronautical Federation (IAF) and therefore is looking for synergies between ISPRS and IAF.

With regards to Earth observation data policy, the IPAC chair and several IPAC members (e.g. from GEO, ESA, USGS) are deeply involved in defining policies for large scale Earth observation programs (e.g. Copernicus, Landsat-8). Within Copernicus (i.e. the Sentinel satellite series), one success for the international science community and value adding companies was the acceptance of a “free and open” data policy, which was officially announced by a representative of the European Commission during the IPAC workshop, November 15th, 2013. IPAC supports and welcomes this Copernicus data policy.

3. IPAC Support to the ISPRS Council

In late 2014 and early 2015, IPAC supported the ISPRS Council in the approach to restructure the ISPRS technical commissions. IPAC commented the draft documents and actively contributed to the corresponding blog. Comments and recommendations were specifically addressing IPAC issues, such as the inclusion of data policy and space law in the new structure of the technical commissions.

IPAC also commented the “Prague declaration”, which shall be approved by delegates at the XXXIII ISPRS Congress and calls on international communities to work together and promote multi-disciplinary collaboration towards providing reliable global geospatial information to support Future Earth. IPAC reviewed the text of the declaration and noted issues on sharing of resources, computing cloud providers and in general the consideration of the European Copernicus programme as a potential policy driver.

4. Workshops Organized by IPAC or Involvement of IPAC

IPAC workshop: Maximizing the Utility of Earth Observation Data in the Internet Age; Antalya, Turkey; November 11-17; 2013

IPAC was happy to accept the invitation of the local organizers of the ISPRS-2013 SSG conference, hosted from November 11-17, 2013 in Antalya, Turkey, to have the IPAC workshop included in the conference venue. The IPAC workshop was conducted one full day on November 15th. The IPAC workshop aimed to solicit expert opinions on EO data policy and data sharing in today’s age of internet computing and enhanced capabilities to manage and access large amounts of EO data and information.



Final discussion panel during the IPAC workshop in Antalya

The workshop solicited perspectives from local and national agencies, international organizations, and academia. Three sessions with 12 speakers, partly representing IPAC and partly invited members, focused on various aspects of data policy and the challenges and opportunities Earth observation, photogrammetry and image science is facing from

new internet based technologies. Hence, the final presentation was held by Google. The workshop was concluded by a round table discussion with active participation from the audience.

The presentations of the IPAC workshop can be found on the conference web page under: <http://www.isprs2013-ssg.org/scientific-program/>.

IPAC workshop: Maximizing the Utility of Earth Observation Data in the Internet Age;

Agenda and Speakers:

Morning Session 1: Programmatic Perspectives

Gunter Schreier	DLR, ISPRS IPAC Chair
Astrid-Christine Koch	EC Copernicus Office, Brussels
Thomas Beer	ESA GMES office
Ali Baygeldi	Directorate General of Aeronautics and Space Technologies

Morning Session 2: User Perspectives

ChenJun	ISPRS, President
Barbara Ryan	GEO, Director
John Murtagh	ASTRIUM
Irmgard Niemeyer	Forschungszentrum Jülich GmbH

Afternoon Session 3: Technological Perspectives

Sias Mostert	Space Advisory Company
Ian Dowmann	UCL, ISAC Chair
Peter Spruyt	JRC, European Commission
Ed Parsons	Google

Afternoon Session 4: ISPRSE IPAC Round Table

"Earth Observation Data in the Internet Age"

Moderator & selected panelists

IPAC Workshop during the ISRSE Conference in Berlin, Tuesday, May 12th, 2015

IPAC organized a meeting aside the International Symposium of Remote Sensing of Environment (ISRSE), May 12th, 2015 at the BCC in Berlin, Germany. Next to the IPAC Chair, eight participants (IPAC members and guests) attended the meeting.

The topics of the agenda focussed on the IPAC ToR, the IPAC Plans and actual initiatives. Specific presentations were given by Orhan Altan (on the ISPRS reform and on contribution of ISPRS on disaster management and working together in this domain with UN and other international players) and Lena Halounova (on the forthcoming ISPRS congress). On the latter, Lena Halounova reported on the Space Agency Forum and a National Mapping and Cadastral Agency Forum to be organized during the congress. IPAC agreed to

support specifically the Space Agency Forum (see below).

Barbara Ryan, GEO Chair reported on the GEO Plenary and ministerial summit being held in Mexico City during the week of 9-13 November, 2015.

Adam Keith, Euroconsult, gave a presentation on the status and overview on new Earth observation systems, specifically the new commercial ventures starting earth observation activities with new satellite systems and constellations.

Agenda for the IPAC Workshop May 12th, 2015, Berlin

- See relation to IAF and others
- ISRSE (ICORSE) Berlin conference
- IPAC Meeting during ISRSE in Berlin
- Support to ISPRS Commission restructuring
- Representing ISPRS at UNOOSA in Vienna
- Attending Newcastle Meeting
- IAA-ISPRS Space Agency Forum

Participants of the workshop

Gunter Schreier	DLR, Chair IPAC
Josef Aschbacher	ESA, member IPAC
Barbara Ryan	GEO, member IPAC
George Cho	Uni Canberra, member IPAC
Irmgard Niemeyer	FZ Jülich, member IPAC
Orhan Altan	TU Istanbul, member ISPRS council
Lena Halounová	CTU Prague, member ISPRS council
Adam Keith	Euroconsult, guest

36th International Symposium on Remote Sensing of Environment (ISRSE 36) May 11-15, 2015, Berlin, Germany

ISRSE is not exactly an ISPRS conference, however, ICORSE a Committee of ISPRS under the ISPRS council, is in charge to organise this bi-yearly event. Several ISPRS council members attended the conference. The IPAC Chair, Gunter Schreier, was the head of the international programme committee, supported by many others, especially from the ISPRS community.

In order to link the ISRSE more closely in the ISPRS series of documents, it was decided to add all ISRSE conference papers to the ISPRS archives. Hence the same “conference organizer” (Copernicus Conference Services) having a frame contract with ISPRS was contracted to the ISRSE to organize the web based abstract management and the ISPRS related review process was adopted to the ISRSE abstract review.



In addition, selected papers have been invited to be published in a special edition of the ISPRS journal. John Trinder and Björn Waske are acting as editors of this special edition. According to latest information (John Trinder, May 2016) 13 prospective authors proposed a paper and after about 10 months in the review process, 2 papers have been accepted with one further paper likely to be accepted soon. Therefore it is likely that the theme issue of the ISPRS Journal will include 3 papers. Quote John Trinder: *“This result is disappointing, but it demonstrates the difference between papers submitted for a conference and those submitted for the journal”*.

An ICORSE Committee meeting also took place during the conference. Therein, a new chair for ICORSE was appointed (Lawrence Friedl, NASA HQ) and the outgoing chair (Per Erik Skrovseth, Norwegian Space Center) was thanked for his service during the last years. A closer coordination between ICORSE and ISPRS council was also agreed,

with a prospective meeting during the ISPRS congress in Prague.

ISRSE-36 Summary:

The 36th International Symposium on Remotes Sensing of Environment (ISRSE36), was hosted by the German Aerospace Center DLR, from 11-15 May 2015 in Berlin, Germany. Key figures of the ISRSE36 include:

- 738 participants from 66 countries
- 415 oral presentations and 167 posters in 81 technical sessions across 12 themes
- 29 keynote contributions in 5 plenary sessions
- 7 special sessions
- 3 social events and 1 technical tour

ISRSE36 took place while other initiatives are addressing Earth Observation:

- The process to define the UN global development agenda post 2015 with its Sustainability Development Goals was finalized in 2015.
- The Future Earth initiative has been created as a global platform to deliver solution-orientated research for sustainability. Among its key challenges are innovative approaches to integrate knowledge systems (data, observation, modelling, etc.), including remote sensing of the environment.
- A second Hyogo Framework of Action with its goal to substantially reduce disaster losses was launched in 2015, where Earth observation approaches play an increasing role in making societies resilient to disasters.
- The global Group on Earth Observations (GEO), together with its partners, such as the Committee on Earth Observing Satellites (CEOS), addresses these political and scientific agendas while it currently prepares for its second implementation phase 2016-2025.
- International science organizations, such as the International Society of Photogrammetry and Remote Sensing (ISPRS) are adapting their structure to master the research and development included in these challenges.

ISRSE-36 was an excellent forum to present results from past and current scientific achievements related to such international developments, as well as to discuss future plans for them. It featured recent milestones in the development of Earth observation programmes addressing sustainable development, global environmental issues and resilience to disasters. It was an outstanding opportunity to learn about major EO programmes, such as the European Copernicus Programme or DLR's missions, and their first results. It was an important forum to present applications based on these new missions and to exchange views on future directions of Earth Observation technology and geographic information management.

The Symposium included plenary and thematic sessions, poster sessions and special events on issues of interest to scientists, policy makers and resource managers in the public and private sectors. Its programme featured speakers from around the globe sharing their experiences and knowledge on Earth observation applications and programmes. By attending the ISRSE-36, practitioners, scientists, policy makers, system engineers and students were able to get a full view of the current situation in Remote Sensing now deemed critical in the Earth's sustainable management.

The ISRSE 37 is planned by the South African National Space Agency, the International Centre for Remote Sensing of Environment (ICRSE) and the International Committee on Remote Sensing of Environment (ICORSE) under the overarching theme of "Earth Observation for Development and Adaptation to a Changing World".

It will take place at the CSIR International Convention Centre (CSIR ICC), Tshwane, South Africa, from 8 – 12 May, 2017.

ISPRS UN-GGIM National Mapping and Cadastre Agency (NMCAF) and ISPRS-IAA Space Agency (SAF) Forum, 14 – 15 July 2016, Prague

The International Society for Photogrammetry and Remote Sensing (ISPRS) together with United Nations Initiative on Global Geospatial Information Management (UN-GGIM) is proud to announce the First ISPRS – UN-GGIM National Mapping and Cadastral Agency Forum.

Sessions of these two forums will comprise invited and presented papers. One session of the Forum will be a joint session of the National Mapping and Cadastral Agencies and Space Agencies. It will be dedicated to two questions:

- How do NMCAs use satellite remote sensing data, what would they like to see improved, etc.?
- What are the plans of Space Agencies in the sphere of data for NMCAs, how can this cooperation be strengthened?

Ian Dowman and Gunter Schreier (supported by Lena Halounova and Christian Heipke) specifically contributed to the definition of the agenda and the invitation of the speakers for the Space Agency Forum.

As of May 2016, the four sessions dedicated to the Space Agency Forum feature the following invited speakers:

Perspectives on International Earth Observation Missions

- Lawrence Friedl, NASA
- Volker Liebig, ESA
- Haiyi Cao, CAST
- Shizuo Yamamoto, JAXA

Remote sensing for environmental monitoring and societal benefit

- Barbara Ryan, GEO Secretariat;
- Stephen Briggs, GCOS,
- Hussein Farah, Regional Centre for Mapping of Resources for Development, Kenya;
- Kyaw Sann Oo (ID 2220), Myanmar Peace Center

New Earth Observation technologies and applications: The commercial perspective

- Robbie Schingler, Planet Labs
- Wade Larson UrtheCast
- Wei Sun, 21Aerospace Technology, China
- Geoff Sawyer, EARSC

Earth Observation Data Policy and long-term Data Continuity

- Pascale Ehrenfreund, DLR
- Mario Hernandez, ISPRS Regional Coordinator for Latin America & Future Earth
- Andreas Veispak, European Commission European Commission, DG GROW I3
- Peter Baumann, Jacobs University, Bremen

The second day will be joint sessions with the National Mapping and Cadastral Agency Forum concluded by a round table discussion.

Report of ISAC (International Scientific Advisory Committee) by Chair, Ian Dowman

1. Introduction

The International Science Advisory Committee (ISAC) has operated between 2012 and 2016 with the same terms of reference and the same membership. The committee has responded to Council requests and worked closely with Council on a number of issues. Terms of reference, membership and activities are set out below with some comments and recommendations for future action.

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 interdisciplinary boundaries.
- Propose worthy candidates for recognition and awards.

Membership

ISAC Member	Organisation	Discipline
Ian Dowman (ISAC Chair)	University College London, UK	Photogrammetry and Remote Sensing
Kohei Cho	Tokai University, Japan	GI Science and remote sensing; education
Arup Dasgupta	Geospatial Media and Communications, India	GI Science
Clive Fraser	University of Melbourne, Australia	Photogrammetry and Remote Sensing
Lawrence Friedl	NASA, USA	Remote Sensing
Menno Jan Kraak	ITC, University of Twente, Netherlands	GI Science
Nicholas Paparoditis	IGN, France	Photogrammetry
Michael Schaepman	University of Zurich, Switzerland	Remote Sensing
Monika Sester	Leibniz University, Hannover, Germany	GI Science

Jie Shan	Purdue University, USA	Photogrammetry
John Shi	The Hong Kong Polytechnic University	GI Science
Andrew Skidmore	ITC, University of Twente, Netherlands	Remote Sensing
George Vosselman	ITC, University of Twente, Netherlands	Photogrammetry
Wolfgang Wagner	Vienna University of Technology, Austria	Remote Sensing
Stuart Walker	BAe Systems, USA	Photogrammetry
Stefan Winter	University of Melbourne, Australia	GI Science and photogrammetry

2. Activities

Terms of Reference of Working Groups

The Commission Presidents are charged with the task of forming working groups after the Congress and these are reviewed by Council with advice from ISAC. ISAC reviewed the proposals and the chair attended the joint meeting of Council and TCPs held in December 2012 at which the WG ToRs were discussed and agreed. Some general points were made relating to the interaction of WGs and joint activities. These were taken up by Council and resulted in new guidelines for meetings. ISAC also noted the importance of benchmarking projects and the provision of data which can be used by scientists for comparative testing.

Meeting structure

In an effort to make ISPRS activities more efficient, Council initiated a consultation on the ISPRS meeting structure. The thinking behind this was that more coordination of WG and TC meetings was necessary to avoid duplication and encourage collaboration. ISAC advised on this and this resulted in the introduction of the ISPRS Geospatial Week to be held in the odd years between the Congress and Commission Symposia.

Definitions

Council wished to revise the definitions of photogrammetry, remote sensing and spatial information science in order to bring them up to date and make them understood by the general public. This was done by generating a short definition covering all three aspects of ISPRS and supporting this with more comprehensive descriptions of photogrammetry, remote sensing and spatial information science. ISAC contributed to this process and the revised definition and

descriptions are now incorporated into the Statutes and Bylaws and used in other literature.

Restructuring of Technical Commissions

ISAC contributed to the consultation on the restructuring of the Technical Commissions which has now been incorporated into the Bylaws.

Review of Scientific Initiatives

Two calls for scientific initiatives were made by Council during the 2012 - 2016 period. ISAC was asked to give an independent view of the quality of the projects completed in 2015 to determine whether the scheme in its current form is producing high quality results and is achieving its aims. ISAC concluded that the projects are generally sound scientific studies which met the objectives set out in the proposal. Those resulting in high participation are thought to be the most successful and those resulting in data being made available to the community are also thought to be successful. ISAC also suggested that the main shortcoming of the projects is their lack of promotion of ISPRS and lack of information propagated.

Meetings and Collaboration

The ISAC chair has attended 6 Council meetings over the past 4 years and contributed to a number of issues besides those outlined above. The chairs of ISAC and IPAC have kept in contact and collaborated in a panel discussion at the Geospatial Week in 2013 and have jointly organised the Space Agency Forum to be held at the Prague Congress.

3. Comments and Conclusions

ISAC has advised Council on a number of important issues during the past four years and has satisfied

the terms of reference related to responding to Council. ISAC has not been proactive in identifying new trends within the scope of ISPRS, but has covered a number of issues in the responses made to Council and will do so in working towards formulating resolutions for the General Assembly in Prague.

It is recommended that ISAC continues with unchanged ToRs for the next four years and that the committee is more proactive in advising Council on developments which may not have been identified

by Council. ISAC should consider meeting on convenient occasions for discussion of such issues. The membership of the committee should be reviewed and new blood brought in, but the distribution of members amongst specialisations should remain.

Ian Dowman, ISAC Chair

Report of I²AC (ISPRS Industry Advisory Committee) by Chair, Franz Leberl

1. A Decision To Form The ISPRS Industry Advisory Committee I²AC

The ISPRS Council communicated on 2 May 2015 its plan to improve the relationship with the Geo-Industry by means of an ISPRS Industrial Advisory Committee I²AC. The plan referred to the need to have a group of people who sympathize with the ISPRS and are willing to advise it in various matters. These include sustaining membership benefits, marketing of commercial exhibits, improving existing and inventing new ISPRS-events of interest to industry and business, perhaps installing a pool of international experts to speak at industry events or be available as referees | consultants should conflicts need to get resolved.

In short, the professorial “learned” Society wishes to reach out to industry.

The author of this report was invited to take initial action to get such a committee off the ground. This report reflects actions taken in preparation for a formal I²AC installation at the 23rd ISPRS-Congress in Prague.

2. The ISPRS-Relevant Geo-Industry

Preparation for the committee-work included a characterization of the industry that is to get represented and should get addressed by ISPRS. Table 1 is a preliminary summary of the industry-segments.

Of particular concern to the ISPRS is development of a rapport to not only large and mid-size, but also small businesses, and to reach businesses wherever they might be, thus also in the developing world.

Surprisingly, the geo-science businesses and industry occupy a high-dimensional space, considering the specializations, the size and the geographic diversity.

3. Review Of The Pre-Existing ISPRS Sustaining Membership Program

Number of Sustaining Members

There exists an outreach program of the ISPRS to the industry by means of its sustaining membership program. It is not addressing industry specifically, but seeks the support from academia, governments as well as industry in one single monolithic program. That program seeks to classify membership by the size of the businesses, not by the size of the geo-science segments or geo-science staffing. Categories A and B are considered very large and large businesses, Categories C and D small and very small businesses. Table 2 is an overview of the current 2016 pre-congress situation.

SENSING

- Satellite remote sensing sensors and systems
- Aerial cameras
- Unmanned Aerial Vehicles and Sensors
- Laser scanning
- SAR and SONAR
- Sensor platforms

GEO-SCIENCE AND MAPPING SOFTWARE

- Data acquisition
- Photogrammetric software
- LiDAR processing
- 2D and 3D information extraction, classification
- Geographic information systems GIS software
- Geo-science applications software in the brown, green, white and black geosciences

MAPPING SERVICE PROVIDERS

Mapping companies Database and GIS companies Drone surveying Specialized geo-science applications providers CLOSE RANGE SURVEYING Manufacturing support Site surveys Special applications in medicine, construction, deformation tracking SPACE OPERATIONS Space agencies Aerospace industry Space research centers Extra-terrestrial operations GEO-INDUSTRIAL JOURNALISM AND MARKETING For-profit journals and event management

Table 1. Segments of the ISPRS-relevant geo-industry and world of business

The data in Table 2 suggest that there is room for improvements in the interaction of the ISPRS with industry.

Number of sustaining members	64
Of those the number of industry members	27
Number of "large businesses" [member categories A&B]	8
Number of "small businesses" [member categories C&D]	19
Number of countries from which these industries hail	23
Number of exhibitors at 22nd ISPRS congress in Melbourne in 2012	69
Of those 2012-exhibitors, number of sustaining Members	10
For comparison:	
Number of American Society for Photogrammetry and Remote Sensing sustaining members	74
Number of members of the MAPPs organization [US Geospatial lobbying association]	180
Number of ISPRS national member associations [countries represented by ISPRS]	92

Table 2: Key numbers characterizing the current ISPRS sustaining membership

ISPRS Presentation of Current Benefits from Sustaining Membership

Table 3 is taken from the ISPRS website to list the currently suggested benefits to sustaining members.

World-wide exposure for your company! Preferential treatment and reduced Exhibitor rates in the ISPRS Congresses, Symposia and Workshop! Free digital copy of the society's flagship journal, the ISPRS Journal of Photogrammetry and Remote Sensing A company profile each year in the Society's electronic newsletter <i>ISPRS eBulletin</i> . Receive bi-monthly electronic newsletter <i>ISPRS eBulletin</i> with news of ISPRS activities. Notification of ISPRS opportunities - Working Groups, tutorials, seminars Invitation to Sustaining Member meetings. Entitlement to use ISPRS logo. Publicity of Sustaining Member user group meeting in the ISPRS Event Calendar.

Table 3: From the ISPRS website at http://www.isprs.org/members/adv_of_sust.aspx. List of benefits of sustaining membership.

Industry's input may in the future help with an improved set of benefits to increase the participation in the sustaining membership program.

4. Defining The I²AC

A committee with 20 seats has been defined. The broad purpose of that committee, in the words of the Secretary General of the ISPRS, Prof. Christian Heipke, consists of the 5 ideas in Table 4.

The new entity's name is to be the ISPRS Industrial Advisory Committee I²AC.

The committee chooses a Chairperson from its midst and that Chairperson interacts with the ISPRS Council via its Congress Director. At the current time this will be Prof. Lena Halounová [Prague].

One of the 20 seats will be reserved for the Chairperson of the ISPRS Foundation TIF.

Improve the benefits of its industrial sustaining membership program – simply provide industry with a better voice in ISPRS and thereby widen the base of ISPRS industrial sustaining members; Advise Council in strategic matters regarding the cooperation of ISPRS industrial sustaining members with the society; Enable an improved response to the incredible dynamics of the geo-industry;

Define requirements which should be fulfilled by ISPRS for companies of different sizes to participate in the exhibition of ISPRS events, and in particular in the quadrennial Congress exhibition;

Coordinate ideas and policies with other ISPRS committees
[www.isprs.org/structure/committees].

Table 4: Five core ideas for the I2AC in the words of the ISPRS Secretary General

5. Issuing Invitations To Assume An I²AC-Seat

Of the 20 I²AC-seats, 2 are currently reserved for non-businesses [ISPRS TIF-Chairperson, and the initial I²AC-organizer]. Invitations went out to the 18 businesses listed in Table 5. At the time of writing, 9 of these businesses have accepted a seat and in 9 cases the decision-making process is still ongoing. They are meant to represent larger as well as smaller entities, various industry segments and a reasonable range of geographic regions.

#	BUSINESS	COUNTRY
1	Airbus	Germany
2	Blom	Norway
3	Digital Globe	USA
4	ESRI	USA
5	Fugro	Netherlands
6	Google	USA
7	Leica	Switzerland
8	Open Geospatial	USA
9	Pasco	Japan
10	PhaseOne	Denmark
11	pix4d	Switzerland
12	Racurs	Russia
13	Riegl	Austria
14	Teledyne Optech	Canada
15	Trimble	USA
16	Urthecast	Canada
17	VisionMap	Israel
RESERVED SEAT FOR TIF'S CHAIRPERSON		
18	ISPRS Fund	International
YET TO GET CONFIRMED		
19	Geoway	PR China
20	Here	Germany

Table 5: Entities who have received an invitation to assume one of the 20 seats on I2AC. 17 businesses had accepted the invitation at the time of this writing. Note that the organizer/reporter is not counted as a member.

6. Terms Of Reference And The Organization – A Draft

Attached is a statement regarding the organization and terms of reference of the I²AC.

Once the decisions by the I²AC invitees have been received and the I²AC can thus be called to order at its inaugural meeting, a first action item will be the review and approval of statement by the IAC-members.

7. Sustaining Membership Program – A Draft

Also attached is a draft invitation to join the ranks of corporate sustaining ISPRS members. This represents a description of the sustaining membership program for businesses. It differs from a previous ISPRS-version since the program now is specific to industry and businesses.

Again, the I²AC will have to get called to order at its inaugural meeting for this second action item to get reviewed and approved.

8. I²AC Action Plan

A simple course of action needs to get followed:

- a. Completion of the list of businesses accepting responsibility for a seat on I²AC, and clarification of the business's representatives;
- b. Presenting (1) the Terms of Reference and (2) the Corporate sustaining membership programs to the I²AC -members;
- c. Collecting responses to the papers, and proposing a revised set for approval;
- d. Inaugural meeting of the I²AC during the Prague-congress on the day of and prior to the Exhibitor reception with election of a 4-year I²AC-chairperson.

Franz Leberl, Chair



ADDRESS

**DRAFT BY FRANZ LEBERL
FOR SUBMISSION TO I²AC FOR REVIEW, CHANGE AND APPROVAL**

Date undefined

Sponsorship of the International Society for Photogrammetry and Remote Sensing [ISPRS]

Ladies and Gentlemen:

This letter invites your company -- as a major geospatial player -- to provide sponsorship to the International Society for Photogrammetry and Remote Sensing (ISPRS). Sponsorship is being invited as a **Corporate Sustaining Member** of the Society. Depending on your organization's scope, size and interests, different sustaining membership levels exist. This invitation presents to you the benefits of membership and seeks to persuade you that membership not only is a noble affair to further the geosciences and to ensure a steady flow of scientific and technical conferences with commercial exhibits. It also provides tangible economic advantages.

The ISPRS within the Wide Realm of the Geosciences

The ISPRS holds a very unique position in the family of geoscience's learned societies, in terms of history, geography, constituencies, and discipline focus. Please check www.isprs.org for a full picture.

A long history and global presence

Unlike most geoscience-oriented learned societies, the ISPRS has served the Geoscience community for more than 100 years as an international association of national associations. It started off in 1910 and today boasts a membership of 92 National Societies and Mapping Agencies concerned with the geosciences. Your organization would join the current assembly of 64 Sustaining Members from 23 countries spanning the globe [status June 2016]. The ISPRS operates a contact network not only in the Industrial World, but one that is also very prominently represented in most developing countries.

A diverse constituency

Very unlike many other learned societies, the ISPRS has a three-pronged constituency, namely not only in academia as many other learned societies do, and not only in industry as many commercially-oriented conference organizers do, but marrying academia with government agencies and industry.

Spatial data acquisition

The focus of ISPRS is on *information from imagery*, especially for Geodata acquisition. In the geoscience food chain, the ISPRS represents the origin, the original data. Imagery may be obtained onboard many different platforms, be they satellites, airplanes, drones/UAVs, vehicles, ships and underwater vehicles, fixed stations or walking pedestrians. The source data may come from a wide variety of sensors, be they traditional cameras, radar systems, heat and multi- or hyperspectral and other radiation sensors, and LiDAR.

Spatial data applications

With the growing role of remote sensing, the ISPRS has broadened its scope to a strong interest in Geodata applications, be they to the green vegetation and agricultural, the brown soil, geology and geomorphology, the blue hydrological, snow, water, ice and finally the black topographic and urban mapping geosciences. No other international organization has the deep commitment to 3D urban geographic information systems of the ISPRS.

26 Benefits of Sustaining Membership

The Invariably Noble and Smart Thing to Do

Sustaining a learned society will always be a noble thing to do, since it will help advance science and innovation. Ensuring that a learned society is healthy is also a smart thing to do since it maintains a platform for a commercial entity's marketing, sales, engineering, personnel management and innovation in good standing. However, there also exist significant tangible benefits as presented here.

Marketing Benefits

1. Worldwide exposure via ISPRS media in conference announcements, the ISPRS and its affiliate member's websites, conference programs, etc.
2. A company profile each year in the Society's electronic newsletter ISPRS eBulletin.
3. Press Releases - ISPRS publishes these if space is available in ISPRS-Media at no cost [currently in the eBulletin].

4. Discounted ISPRS advertising rates – e.g. 50% discount for advertising in the ISPRS Journal.
5. Company sponsorship of awards and donations to The ISPRS Foundation provide exposure.

Support at Commercial Exhibitions

6. Early and proactive notification of ISPRS conferences, Working Group meetings, tutorials, seminars.
7. Preferential treatment in the ISPRS Congresses, Symposia and Workshops, for example with exhibitor spaces.
8. Publicity of Sustaining Member user group meeting in the ISPRS Events Calendar.
9. 10% discount for exhibitor booth rates at the quadrennial ISPRS Congress.
10. Special session(s) for Sustaining Member User Groups at Congress.
11. Exhibitor’s Show Case at Congress at reduced cost.
12. 10% discount for Exhibitor’s Show Case in extra rooms, 1 to 1.5 hours.
13. Free bookable room available at Congress for private interviews and meetings.
14. Opportunities for sponsored breakfast, refreshment breaks and social events to promote the member organization.
15. Discounted registration fees at Congress.
16. Invited technical presentations for sponsoring members at Congress.
17. Connections of Sustaining Members with students for potential employment.

Employment

18. Employment Opportunity -- Blast Emails directly to the desktops of all ISPRS members.
19. Access to Skilled Future Employees – Talented, intelligent and skilled students and young professionals attend ISPRS conferences and approximately 2 Summer Schools per year.

Media Subscriptions

19. Free digital copy of the society's flagship journal, the ISPRS Journal of Photogrammetry and Remote Sensing.
20. Receive bi-monthly electronic newsletter ISPRS eBulletin with news of ISPRS activities.
21. Complimentary digital copy of ISPRS Conference Proceedings

Conference Participations

22. ISPRS Conference and workshop registration fees reduced for designated employees.

Continuing Education and Professional Certification

23. Free Summer School registration for designated employees
24. Int'l Professional Certification: discounted fees for designated employees (CHF 125 savings per application)

Other

25. Right to use the ISPRS logo

The detailed “deal” for a Corporate Sustaining Membership is listed in the attachment.

The Conference History

The quadrennial ISPRS Congresses are the flagship events of the society. They have a truly global attendance record from government agencies, industries and academia.

Year/Location	# of Attendees	# of Nat'l Origins	# of papers	# of Exhibitors	Main Sponsor(s)
1996 Vienna (Austria)	~ 3,000	104	~ 800	95	Zeiss, Intergraph, Leica
2000 Amsterdam (Netherlands)	~ 3,000	100	~ 1,100	104	BCRS (Policy Comm. f. RS); ITC; Kadaster, NL Society for RS and Geoinformation
2004 Istanbul (Turkey)	2,450	89	1,718	87	Leica, ESRI, Inter-Space Turk
2008 Beijing (China)	2,895	77	1,776	95	ESRI, Leica
2012 Melbourne (Australia)	1,941	74	1,079	84	ESRI, Leica

Other conferences have been the symposia of the individual technical commissions, at 2-year intervals in between the congresses. This is being complemented by a GeoSpatial Week, to be held bi-annually in odd years. The first GeoSpatial Week was held in Antalya [Turkey] in 2013, the second in Montpellier, France in 2015 with > 500 participants. The next GeoSpatial Week will be held in Wuhan [China] from 18th – 22nd of September, 2017.

People and Organizations in Attendance at ISPRS Events

Of course, academic organizations are very prominently represented at ISPRS events. They provide the majority of technical papers. But there are two factors that stand out in the ISPRS attendance record.

First is the fact that ISPRS congresses are being attended by government decision makers in the field of mapping, and this is especially the case for governments from the less developed regions of the world. This is a long standing tradition going back to the early years of the ISPRS.

Second is the role of industry via the very significant exhibition at the ISPRS congresses. Major innovations get showcased first at ISPRS congresses, and many major innovation cycles have been defined by the quadrennial schedule of ISPRS congresses.

Getting Representation by the ISPRS Industrial Advisory Committee

The upcoming 23rd Congress of the ISPRS in mid-July-2016 in Prague will see the inauguration of an ISPRS Industrial Advisory Committee I²AC. This 20-seat body of representatives from the geospatial industries of the World will shape this sustaining membership program and the initiatives by ISPRS to further the interests of industry. The decision by your organization to join the ranks of ISPRS *Sustaining Members* will no doubt strengthen the industry-representation within ISPRS and the role the ISPRS can play in the World.

We will be very grateful for your expression of interest and a dialogue about the specifics of your organization's role as a new Sustaining Member of the ISPRS.

Best regards

NN
Chair of the I²AC

Attachments A and B

Attachment A

ISPRS CORPORATE SUSTAINING MEMBERSHIP INFORMATION

[See also http://www.isprs.org/documents/guidelines/tof_sust_mem.aspx | Pending]

Corporate Sustaining Members are corporations and for-profit organizations who manufacture or distribute Geospatial software, instruments, equipment or supplies, or who operate or provide Geospatial services. Their sustaining membership contributes to the financial support of the Society. Sustaining Members pay an annual fee according to the invoice from the ISPRS Treasurer at the beginning of each calendar year. There exist 4 corporate sustaining membership categories as follows:

Category	Num. of Geo-Specialists	Annual Subscription in Swiss Francs
A	> 150	3,450
B	75-150	1,725
C	10-75	920
D	< 10	460

Corporate Sustaining Members are entitled to the benefits provided by ISPRS, as communicated from time to time on the ISPRS website, and as enumerated in the above invitation letter. Quantification of these benefits is attempted in Attachment B.

A Corporate Sustaining Member who is more than two years in arrears shall be dropped from the rolls.

Before Corporate Sustaining Membership gets granted, the candidate corporation will file with the Secretary General a written statement (one single page or less) describing their Geospatial activities and explain the number of geo-specialists in innovation, engineering, sales and management at the corporation. This statement will be the basis for the membership category. Assignment of that category can be subject to a negotiation and review by the Chairperson of the I²AC.

Candidate corporations shall commit to membership for a minimum of four years.

The ISPRS leadership consists of a 6-person Council and liaises with the ISPRS Industrial Advisory Committee I²AC. This Council will have an opportunity to review the submitted material, consult with the I²AC and to register any objections. After such review the new Sustaining Membership will be awarded via a formal certificate by the Council. Corporate Sustaining Members have the right -- and are encouraged -- to indicate in their business and professional publications that they are Corporate Sustaining Members of ISPRS.

A Corporate Sustaining Member will nominate a person as the ISPRS and also the I²AC point-of-contact.

The Secretary General is the person on the Council to liaise with the corporate sustaining member. He/she will maintain a list of current Corporate Sustaining Members and the description of their activities. This information will be printed in all appropriate Society publications. A Corporate Sustaining Member may revise the description of its business whenever deemed necessary, and submit this to the Secretary General.

Each ISPRS-congress is run by a Congress Director who also is a member of the 6-person Council. At an appropriate time before, and then towards the end of each quadrennial ISPRS-Congress, that Congress Director will liaise with the I²AC for a pre- as well as a post-Congress-meeting. Corporate Sustaining Members are encouraged to review the exhibit and other congress activities with the I²AC for a subsequent meeting with the current Congress Director or his/her representative. At the post-Congress meeting, the incoming Congress Director will be an observer.

Attachment B

QUANTIFICATION OF BENEFITS - ISPRS CORPORATE SUSTAINING MEMBERSHIP

BENEFITS OF SUSTAINING ISPRS MEMBERSHIP [ACTIVE PARTICIPANTS]					
	Per Year		Total		
	Events	\$	Events	\$	
Marketing Benefits					
1	Worldwide exposure via ISPRS media	20.0	100	2,000	20 ISPRS-member contacts per year
2	Company profile in ISPRS ebulletin	4.0	100	400	4 e-Bulletins per year with profile
3	Press Releases	10.0	50	500	10 press releases per year
4	Discounted ISPRS advertising rates	4.0	100	400	4 publications with advertisements
5	Advertising company sponsorship of awards and donations	4.0	100	400	4 bulletins repeating award-sponsorship
Support at Commercial Exhibitions					
6	Privileged information on ISPRS events	4.0	50	200	4 conferences/workshops per year
7	Privileged selection of exhibitor spaces	0.5	100	50	1 conference per 2 years with exhibit option
8	Free publicity of sustaining Member user group meetings	0.5	200	100	Exhibit accompanied by user group meeting
9	10% discount for exhibitor booth rates	0.5	1,000	500	Assuming \$10K booth rate, once every 2 years
10	Special session(s) for User Groups at ISPRS events	0.5	400	200	Exhibit accompanied by user group meeting
11	Discount at Exhibitor's Show Case at ISPRS events	0.5	300	150	Exhibit accompanied by user group meeting
12	10% discount for Exhibitor's Show Case in extra rooms	0.5	500	250	1 conference per 2 years with exhibit option
13	Free bookable room for private interviews and meetings at ISPRS events.	1.0	1,000	1,000	Corporate presence at 1 event per year [interviews, customer meetings]
14	Opportunities for sponsored breakfast, refreshment breaks and social even	1.0	300	300	Corporate presence at 1 event per year [interviews, customer meetings]
15	Invited technical presentations at ISPRS events	0.5	500	250	Industry-session once every 2 years
16	Connections with students for potential employment	1.0	300	300	Employment contacts once per year also at smaller ISPRS event
Employment					
17	Free advertisement of employment opportunities	5.0	100	500	Via ISPRS job website
18	Access to skilled talents via ~ 2 annual Summer Schools [and other ISPRS ever	2.0	100	200	Summer school schedule at a rate of 2 per year
Media Subscriptions					
19	Free digital copies of the ISPRS Journal of Photogrammetry and Remote Sens	12.0	50	600	5 key employees receive Journal access, 12 issues per year
20	Free bi-monthly electronic ISPRS ebulletin	4.0	50	200	5 key employees receive e-bulletin
21	Complimentary digital copy of ISPRS Conference Proceedings	4.0	50	200	5 key employees receive Proceedings
Conference Participations					
22	Discounted ISPRS Conference and workshop registration fees	10.0	100	1,000	5 key employees - \$ 100 discount, registration for conferences & workshops
Continuing Education and Professional Certification					
23	Free Summer School registration for designated employees	2.0	400	800	1 employee receives free registration for the 2 annual summer schools
24	Support in arranging an Intl Professional Certification	2.0	500	1,000	Certification for key employees, corporate ISO9000 certification
Other					
25	Right to use the ISPRS logo	10.0	50	500	10 annual applications using the ISPRS logo [printed materials, internet]
26	Free Sustaining Member meetings to influence ISPRS policies	1.0	100	100	One annual opportunity to tell ISPRS what to do and how to do it
27	Goodwill vis-a-vis the major global Learned Geoscience Society			3,000	Doing the noble thing of supporting a Learned Society and talking about it
GRAND TOTAL BENEFITS ANNUALLY EXPRESSED IN US\$				15,100	

I²AC ORGANIZATION AND TERMS OF REFERENCE

Status May 2016, for review and approval by the I²AC inaugural meeting

CREATION OF THE I²AC

The I²AC has been established to support the ISPRS Council in its dealings with the Geospatial industry. Recognizing that the ISPRS is a learned society of academics, and also is strong in governmental mapping agencies, it needs to improve its interactions with the rapidly changing and evolving Geospatial industry as the driver of all global geospatial activities and innovations.

The I²AC's creation was by decisions of the ISPRS General Assembly at the 23rd international congress of the ISPRS [Prague, 2016]. It was installed with a membership of 18 businesses, each nominating a person to take one of the seats. Additionally, 1 seat was held for the Chairperson of The ISPRS Foundation TIF and 1 seat for the [non-business] organizer of the I²AC.

MEMBERSHIP IN THE I²AC

The membership of the I²AC is self-perpetuating. Should a person no longer represent a business, then this business will nominate a replacement. Should a business no longer want to hold a seat, then the I²AC will invite a replacement business. Continued inactivity of a seat holder may lead to a dialogue between the Chairperson and the business-representative to refresh the business-agent, or to vacate that seat.

CHAIR OF THE I²AC

It is the membership of the I²AC that votes with a simple majority on its chairperson. Every member can propose a chairperson. Voting will be organized by the outgoing Chairperson in two steps. Each candidate will collect votes in the first round. Then the two persons with the most votes will go through a run-off. The position will be held for 4 years or until the ISPRS Congress following the election, whatever is first. Renewal of the Chairpersonship will be during the quadrennial ISPRS Congress.

DECISION MAKING

Decisions by the committee will be taken upon a debate within the ranks of the committee, under the guidance of the Chairperson. If appropriate, decisions will get voted on with a simple majority. Each seat votes, each vote holds the same weight. Voting can be via physical presence at a meeting, or by electronic participation.

ISPRS-COUNCIL AND THE I²AC

The I²AC interacts with the ISPRS-Council via its Congress Director. That interaction will be informal, but will have a formal schedule within 12 months before the quadrennial international ISPRS Congress, and towards the end of each such congress.

PURPOSE | TERMS OF REFERENCE

The I²AC may address any topic it deems of interest, and bring its views to the attention of the point of contact on the ISPRS council. This may be as general as identifying and addressing important *industry trends* which impact the scope of the ISPRS Commissions and activities by ISPRS Working Groups. It may very specifically address the *site choices of upcoming ISPRS-events*.

Broadly, activities of the I²AC are to

- Improve the benefits of its *industrial* sustaining membership program – simply provide industry with a better voice in ISPRS and thereby widen the base of ISPRS industrial sustaining members;
- Advise Council in strategic matters regarding the cooperation of ISPRS *industrial* sustaining members with the society;
- Enable an improved response to the incredible dynamics of the Geospatial industry;
- Define requirements which should be fulfilled by ISPRS for companies of different sizes to participate in the exhibition of ISPRS events, and in particular in the quadrennial Congress exhibition;
- Coordinate ideas and policies with other ISPRS committees [www.isprs.org/structure/committees].

BUDGET | COSTS

There will not be any costs associated with the activities of the I²AC. There is no budget for its activities.

Report on ISPRS Regional Affairs in Africa by Hussein Farah

The major activities during the reporting period were organizing and attending ISPRS events, workshops and conferences that support the objectives of ISPRS and membership drive. The details of the activities are as follows:

10th ISPRS WGVI/5 and Student Consortium Summer School

The 10th ISPRS Student Consortium & WG VI/5 Summer School was successfully held from 29 October to 2 November, 2013, at the UN Economic Commission for Africa (UNECA) Headquarters in Addis Ababa, Ethiopia. The local organizing committee composed of personnel from the Regional Centre for Mapping of Resources for Development (RCMRD), Ethiopian Mapping Agency (EMA) and UNECA.

The summer School brought together 30 young scholars and scientists from 10 Countries; Rwanda, Uganda, Tanzania, Ethiopia, Nigeria, Kenya, Turkey, Slovenia, Switzerland and the United Kingdom. The main theme focused on 'Geospatial Science for Monitoring of Environment for Sustainable Development' and the following topics were covered:

Change Detection

Food Security

Agriculture Monitoring

Land Cover / Use

Disasters Monitoring

The training schedule comprised of lectures and practical sessions on the use of Synthetic Aperture Radar (SAR) data for various application, ENVI software for change detection and disaster monitoring using earth observation.

Participants enjoyed a technical visit to EMA, a visit to the National Museum of Ethiopia and a cultural night of Ethiopian delicacies and dances.

GSDI 14/AfricaGIS Conference

The Global Spatial Data Infrastructure and AfricaGIS (GSDI 14/AfricaGIS2013) conferences were jointly held in Addis Ababa from 30 October to 4 November, 2013. The Secretary General of ISPRS and the ISPRS Regional Representative for Africa attended the conference.

During the AfricaGIS2013/GSDI14, AfriGEOSS was launched. AfriGEOSS is an initiative by the

intergovernmental Group on Earth Observations (GEO) aimed at building infrastructural capacities in Africa to benefit from geospatial data for sustainable development. AfriGEOSS is designed to support the continent's efforts to bridge the digital divide and build a knowledge-based economy, by enhancing Africa's capabilities for producing, managing and using earth observation data and information. The ISPRS Regional Representative for Africa is also the regional coordinator for AfriGEOSS in Eastern Africa.

The GEO Working Group on Land Cover for Africa was also launched during the Conference. The ISPRS Regional Representative for Africa was elected as the Chair of the executive board of the working group. The purpose of the working group is to contribute to the development of a land cover data product for the entire African continent at a 30 meter resolution for the African element of the Global Earth Observation System of Systems (AfriGEOSS). This will be established by building mutually beneficial partnerships with national and regional institutions to assess and develop their land cover needs, including products, while increasing their involvement in the Global Land Cover Database.

AARSE Conference 2014

The African Association of Remote Sensing of Environment (AARSE) was held in Johannesburg, South Africa from 27 to 31 October, 2014. The AARSE2014 conference focused on "Space Technologies for Societal Benefits in Africa". This event is the largest and premier forum in the African continent for researchers on remote sensing technologies and geospatial information science, gathering leading scholars from the remote sensing and related communities.

The Second Vice President of ISPRS, Prof. Marguerite Madden gave a key note address titled Remote Sensing in a Changing World: Can we Serve Society from Local to Global Scales? The ISPRS Regional representative for Africa attended the conference and promoted the objectives and activities of ISPRS.

ISPRS Technical Commissions and Working Groups events

ISPRS Technical Commissions and Working Groups are hereby encouraged to organize events (seminars, workshops, special sessions) in Africa.

These are best organized as special sessions, pre-conference or post-conference events during the biennial conference of the African Association of the Environment (AARSE) (October of even numbered years) or that of AfricaGIS (around October of odd numbered years). For more information, please contact the ISPRS Regional Representative for Africa.

International Workshop on Advanced Land Cover Information Technology and Applications

In order to assist in capacity building on land related geospatial information and applications in developing countries, particularly in Africa, this 11/2 day workshop was held in Addis Ababa on 18-19 April 2016, as a side event of the Fourth High Level Forum on United Nations Global Geospatial Information Management (UN-GGIM). The workshop presented advanced land cover information technology and applications, and shared the latest development with the participants. Some advanced land cover information technologies developed from the production and application of Globeland30 and other land cover data products were presented. Thirty eight participants from twenty African countries participated in the workshop. The workshop was organized jointly by:

- Secretariat of the UN-GGIM

- National Administration of Surveying, Mapping and Geoinformation of China (NASG)
- International Society of Photogrammetry and Remote Sensing (ISPRS)
- Regional Centre for Mapping of Resources for Development (RCMRD)
- GEO Global Land Cover Working Group

Planned Events in 2016

RCMRD, together with its partners is organizing two training events on the use of SAR data and its applications in environmental monitoring and food security in Kenya and Rwanda. The objectives of the two events are to:

Expose university students and faculty to remote sensing applications

Impart more knowledge on remote sensing technology and applications

Develop professional connections and a platform to meet and interact with international and local experts in the field of remote sensing.

The Kenya event will be held at Kenyatta University from 22 to 26 August. The Rwanda event will be held from 25 to 29 September, 2016, at National University of Rwanda, Butare.

Hussein Farah

Report on ISPRS Regional Affairs in South-East Asia by Nguyen Dinh Duong

The Regional Representative for South-East Asia, in the period of 2012 - 2016, conducted various activities to promote ISPRS in the region. In the position of AARS Deputy General Secretary, the RR continuously supports ISPRS by arrangement of various meeting, seminars and summer schools.

Summer schools following the annual Asian Conference of Remote Sensing are an excellent example of collaboration between AARS and ISPRS, to promote ISPRS in Asia and SEA region. The 8th ISPRS Student Consortium and the WG VI/5 Summer School were organized from Nov. 30 to Dec. 4, 2012, at Burapha University, Chonburi, Thailand. The ISPRS – ACRS Summer School 2013 was organized in Werdhapura Village Center, Indonesia, from 25 to 30 October, 2013. The ISPRS-ACRS Summer School 2015 was organized at the University of the Philippines, Diliman, Quezon City, Philippines from 24 to 28 October, 2015.

The 9th International Conference on Geoinformation for Disaster Management 2013 (GI4DM2013) was successfully held at the Institute of Geography, Vietnam Academy of Science and Technology, from 9 to 11 December, 2013. 90 participants from 18 countries participated in the conference.

In 2014, a scientific collaboration project between the Institute of Geography and the Swiss Federal Institute of Technology, ETH, Zurich, was initiated with the support of ISPRS, AARS and the Asian Institute of Technology, AIT. The project supported 9 participants from Vietnam, to attend the Asian Conference on Remote Sensing held in Manila, Philippines, from 18 to 23 October, 2015.

In the framework of this project, a workshop titled “Modern Trends of Photogrammetry and Remote Sensing” was organized in Hanoi on Oct. 16, 2015. 45 participants from Vietnam and Laos PDR participated in the workshop.

The regional representative has discussed with the Laos PDR representative about the possibility to become an Ordinary member of ISPRS.

Regional Representative's recommendations to ISPRS: It is time to formulate separate policies for developing countries in general, and countries in SEA region in particular, to encourage scientists to join ISPRS's activities. These policies should reflect the following points:

Low registration fee to attend workshops, seminars and conferences organized by ISPRS

Waiving of publication fee in ISPRS scientific journals

Capacity building through technology transfer workshops and pilot projects.

Nguyen Dinh Duong

Report on ISPRS Regional Affairs in Latin-American by Mario Hernandez

State of the Art of Remote Sensing and Photogrammetry in Latin America

The Latin American Earth Observation (EO) area is undergoing significant expansion, brought about by growing demand for EO applications and therefore associated data and services. In this regard, the region is considered one of the most dynamic markets globally. Latin America EO capabilities are expected to increase substantially as further countries in the region are investing in the application, and current investing countries expand their satellite portfolios. Demand for EO data is also increasing significantly.

Main areas of application are the monitoring of natural resources (e.g. forest monitoring programs, especially in Brazil and Mexico), natural disasters, and land use cover. Recently, climate change related issues, as well as associated adaptation are beginning to gain importance.

In the area of remote sensing, the current trends in the region are:

Demand for applied remote sensing

Demand for capacity building

Demand for data access (as much as possible free access).

Recently, new emerging space agencies have started to strengthen the use of remote sensing in support of governmental demands. Countries such as Mexico, Peru, Ecuador, Colombia, Venezuela are now setting up national space agencies or do have specific governmental institutions devoted to Earth Observation. In parallel, INPE (Brazil) and CONAE (Argentina) have been increasing their associated EO capabilities.

In the area of photogrammetry, applications using UAVs and laser scanning are increasing. In general,

the users are making use of the various mapping and 3D algorithms provided with the sensor-device (UAM or Laser Scanner). Recently, Colombia has been elected as President of the Inter-American Commission for the Registry of Property and Survey (Cadastral). The main activity is now with the Institute Agustin Coddazi. This may be a good opportunity for ISPRS to showcase its know-how in photogrammetry in the region. The main problem is to find the funds in order to organize a support workshop inviting technicians and decision makers of the region.

Based on this brief assessment, in relation to ISPRS in Latin America, (and without implicating that all other Commissions have no relevance), the following ISPRS Commissions have larger possibilities for action: Commissions IV, V, VI and VIII.

Promoting ISPRS among Latin American Institutions

The Regional Representative participated in the following international meetings and promoted ISPRS:

International Symposium on Remote Sensing of Environment (ISRSE), Berlin, May 2015

GEO Ministerial meeting, 9-13 November, Mexico City

Bringing ISPRS to Latin America

In Latin America the following activities were carried out to support ISPRS:

Workshops on Digital Documentation of Cultural Heritage: Advantages and Disadvantages, Mexico City, 27 April 2015 and Campeche, Mexico City, 30 April and 1 May, 2015, in association with the University of Ghent and UNESCO.

Workshop on Promoting the Use of Satellite Data to Support National Environmental and Climate Change Decision-making in the Caribbean, 3-5 December, Kingston, Jamaica, jointly with the University of Ghent and UNESCO-Kingston.

ISPRS involvement with ICSU-Future Earth

With ISPRS support, the Regional Representative was selected for the Future Earth Scientific Engagement Committee. Working as Ambassador of Remote Sensing and Photogrammetry, he has been able to convince Future Earth of the vital importance that the themes of ISPRS do have for Future Earth. Remote Sensing and Photogrammetry are now official themes of Future Earth and will be used in all Future Earth projects.

Recommendations to ISPRS

While Latin America is actively teaching remote sensing and photogrammetry in universities, there are no incentives to encourage research in these areas. Therefore, most of the students emerging

from the universities begin working on applications in the various governmental institutions. In general, this poses the main problem for ISPRS: the region focuses more on applications, as compared to research. This does not mean that ISPRS does not have opportunities in Latin America, but that ISPRS has to have a presence in Latin America with experts showing the new trends of remote sensing and photogrammetry who mainly demonstrate how these new developments are being used in concrete applications.

Therefore it is suggested that ISPRS organize an event in Latin America every two years. The form of the event has still to be defined (e.g. a Geospatial Week).

Mario Hernandez

Report of ICORSE (International Committee on Remote Sensing of Environment) Chair, Lawrence Friedl

The International Committee on Remote Sensing of Environment (ICORSE) is a standing ISPRS subcommittee. The ICORSE membership is composed of representatives from Earth science, geospatial, and environmental agencies of countries represented in ISPRS. The ICORSE goal is to advance the use of remote sensing to address priority issues of the environment including scientific, policy, management, and other pursuits. The primary function of ICORSE is to oversee the biannual International Symposium on Remote Sensing of Environment, ISRSE.

The 36th International Symposium on Remote Sensing of Environment (ISRSE-36) took place on 11-15 May, 2015, in Berlin, Germany. The German Aerospace Center (DLR) hosted this highly successful and productive symposium. Highlights of the event included:

738 participants from 66 countries

81 technical sessions across 12 themes, incl. seven special sessions

415 oral presentations and 167 posters

29 keynote contributions in five plenary sessions

three social events and one technical tour.

Abstracts of all accepted submissions are available at the ISPRS website.

The ICORSE met on 12 May, 2015, in Berlin in association with ISRSE-36. Per-Erik Skrovseth (Norwegian Space Center) stepped down as ICORSE Chair, and the Committee elected Lawrence Friedl (NASA) as the new Chair. In addition to a review of ISRSE-36, the Committee addressed four primary topics. The Committee discussed three offers to host ISRSE-37 in 2017, and it accepted the offer of the South African National Space Agency (SANSA) to host the symposium at the Council for Scientific and Industrial Research (CSIR) in Tshwane (Pretoria). The Committee and SANSA decided to identify opportunities to co-locate other meetings with the symposium, particularly those of the Group on Earth Observation.

In addition, the Committee addressed the 2016 ISPRS Congress and General Assembly, including a discussion with Congress Chair Lena Halounová on ICORSE support for the planned Space Agency Forum. ICORSE agreed to develop a prospectus with ISRSE and distribute it to ICORSE member agencies. The Committee reviewed its terms of reference and decided to update them. Based on a

series of meetings in 2015 with ISPRS Executive Director, the Committee discussed the relationship of ICORSE and the symposium to ISPRS overall, looking to strengthen ties and mutual benefits.

In the coming years, the Committee will pursue additional members and consider the Symposium

as a venue to showcase the use of remote sensing in relation to the 2030 Agenda and the sustainable development goals.

Lawrence Friedl, Chair

Report of CIPA (International Committee for Documentation of Cultural Heritage) President, Andreas Georgopoulos

General

CIPA has clearly defined missions:

to promote recording, documentation, information management and monitoring of cultural objects, monuments, groups of buildings and their environment, villages, towns, sites and cultural landscapes by the means and further development of applications of traditional surveying methods, photography, photogrammetry, laser scanning, remote sensing information technology and management, including and integrating related disciplines and techniques.

to actively pursue programs which define research needs, stimulate and support research activity, and increase exchange and dissemination of relevant information in order to promote a greater understanding in the discipline.

to actively pursue international co-operation in that domain with:

the Commissions and Members of ISPRS,

the other International Scientific and National Committees of ICOMOS, specially with respect to ICOMOS' tasks and needs for UNESCO's Cultural Heritage Division and World Heritage Centre, - other co-operation partners of ICOMOS, for example ICCROM, ICOM, IUCN, DOCOMOMO,

other international bodies.

As can be seen from previous reports, CIPA is one of the most active scientific committees in ICOMOS, with several volumes of publications and activities organized in the promotion and implementation of adequate scientific research and practice in the field of heritage documentation. For the upcoming plans, CIPA is involved in the publication and organization of activities internationally. Therefore, the executive board did not see the necessity to formulate a working programme.

Executive Board Activities

The International Committee on Heritage Documentation (CIPA) held its annual meetings in Melbourne (2012) in conjunction with the ISPRS Congress, in Strasbourg (2013) in conjunction with the CIPA Symposium, in Riva del Garda (2014) at the time of the ISPRS Commission V Symposium and in Taiwan (2015) together with the CIPA Symposium. The decisions and deliberations of the meetings 2012-2014 were reported in previous reports. In Taiwan, the board held two meetings and discussed internal business, the restructuring of the EB, accepting three new Associate members in the place of members that stepped down, in order to (1) renew the webpage, (2) adapt the statutes and by-laws to the changes decided by ICOMOS and (3) form an "Emerging Experts Group" to attract younger members to the Committee. Workshops and summer schools are planned for 2016 in Leiden (Holland), Beijing (China) and Valencia (Spain). Financial planning, outreach activities, planning of future activities and joint events with other organizations and committees of ICOMOS and ISPRS have also been discussed. The activities concerning the next International CIPA Symposium, to be held in Ottawa, Canada in 2017, were discussed and presented by the Symposium Organizers.

Organized Events in 2015/2016

CIPA recently organized and/or embarked on the following events/activities:

ISPRS/CIPA 3D-ARCH'2015 "3D Virtual Reconstruction and Visualization of Complex Architectures", February 2015, Avila (Spain)

ISPRS/CIPA workshop "Underwater 3D Recording and Modelling", April 2015, Piano di Sorrento (Italy)

2nd CIPA Summer School, July 2015, Paestum (Italy)

The International CIPA Symposium, September 2015, Taipei (Taiwan)

CIPA Workshop on Protecting Cultural Heritage in Syria during the ICAANE Conference in Vienna, Austria, April 2016

CIPA Special Session at ISPRS Congress, July 2016, Prague, CZ Republic

CIPA provided also letters of support for European and international research programme proposals.

Planned Events for 2016/2017

CIPA will organize and/or support the following events/activities:

3rd International Symposium on Cultural Heritage Conservation and Digitization, July 2016, Beijing (China)

3rd CIPA Summer School "Cultural Heritage 3D Surveying and Modelling", Aug.-Sep 2016, Valencia (Spain)

ARQUEOLÓGICA 2.0 - 8th International Congress on Archaeology, Computer Graphics, Cultural Heritage and Innovation, September 2016, Valencia (Spain).

6th EUROMED Conference, November 2016, Limassol (Cyprus)

3D-ARCH'2017 "3D Virtual Reconstruction and Visualization of Complex Architectures", early 2017, TBD

26th CIPA Symposium, to be held in Ottawa, Canada, in August-September 2017

Recent Publications

The 25th Symposium proceedings from Taipei, published as ISPRS Archives, can be downloaded free of charge from the CIPA website <http://cipa.icomos.org/>. They are also available from the ISPRS publications web page.

The CIPA Heritage Documentation movie can be found on the CIPA webpage.

CIPA is active on various social media.

The CIPA Newsletter appears every four months since 2014 and now it is in its 9th edition. It can be found on the CIPA web page.

Partners - Members

The main cooperation is that with ISPRS. The cooperation is defined by the CIPA Statutes, controlled by Society Delegates. CIPA has the status of a permanent ISPRS Committee as well as of an International Scientific ICOMOS Committee. Historically, CIPA is also an ICOMOS International Scientific Committee with fruitful cooperation with its other ISCs. CIPA is always striving to attract Sustaining Members in order to support its activities. At this time CIPA has already 10 Sustaining Members, 45 Expert and 130 Regular members. Membership is free for the time being.

Andreas Georgopoulos, President

Report of the Student Consortium Chair, Urša Kanjir

The Student Consortium (SC) functions as a professional network for the exchange of information and creates opportunities for young researchers to develop their career within the fields of photogrammetry, remote sensing, Geographical Information Systems (GIS), and other related geospatial sciences. It was established in 2004 at the ISPRS Congress in Istanbul, Turkey.

The main goal for the last four years was to encourage and continue to build a strong international community of young professionals in the field. The fact that the SC has continued to expand internationally can be seen through its membership growth, global summer school coverage, active presence in social media and the

cultural variety of articles published in the Student Consortium Newsletter.

The network

The ISPRS SC currently encompasses more than 1387 members from 100 countries across the entire world (see Figure 1).

The number of members frequently increases after summer schools, where participants connect with the SC board members in person and get informed about the organization and the team. Therefore the board presence or any kind of SC representative presentations on SC organized events or any similar student event is of great importance for the organization.

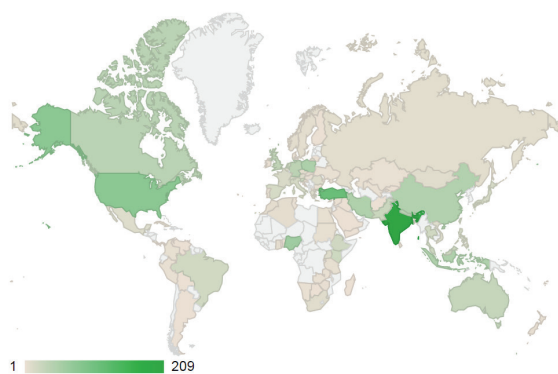


Figure 1. Membership density map.

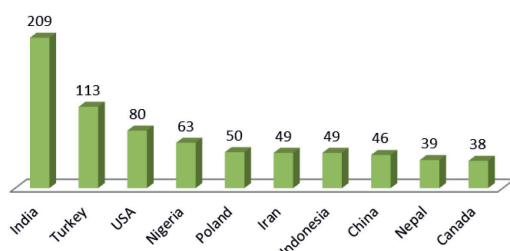


Figure 2. Top ten countries with the highest number of members in 2016.

The membership has almost doubled since the beginning of the current mandate in 2012 (see Table 1).

Year	No. of members	No. of countries with members
2010	380	68
2012	750	85
2014	1,100	93
2016	1,390	100

Table 1. Student Consortium membership growth.

Summer schools

The SC has continued organising summer schools (SS) in different countries in coordination with local institutions. For the past four years, five summer schools were hosted in Asia and one in Africa. The exact locations of the SC summer schools in

the last four years are summarized in Table 2 and described in detail below.

Year	Location
2012	Pattaya, Thailand
2013	Bali, Indonesia
	Addis Ababa, Ethiopia
2014	Nay Pyi Taw, Myanmar
	Wuhan, China
2015	Quezon City, Philippines

Table 2. Summary of the locations of the last six SC summer schools

Four summer schools were organised right after the annual Asian Conference on Remote Sensing (ACRS) with the cooperation and collaboration of the Asian Association on Remote Sensing (AARS) and its corresponding student organization, the AARS Student Group (ASG):

- In 2012, the SS was hosted at Burapha University, Chonburi, Thailand and was organised in coordination with the Geo-Informatics and Space Technology Development Agency (GISTDA) of Thailand. The lectures focused on topics about coastal zone monitoring and disaster management.
- In 2013, the SS was held in Bali, Indonesia and the theme concentrated on the use of remote sensing for environmental monitoring.
- In 2014, the SS was hosted by the University of Forestry in Yezin, Nay Pyi Taw, Myanmar (see Figure 3). These SS topics were dedicated primarily on the use of remote sensing and geospatial technologies in forestry and other related applications.
- In 2015 the Department of Geodetic Engineering and the Institute of Environmental Science and Meteorology of the University of the Philippines – Diliman, hosted the most recent SS in Asia (see Figure 4). The use of various geospatial tools and technologies for natural resources management were the focus of the discussions and practical exercises.



Figure 3. Group photo at the 2014 Myanmar summer school.



Figure 4. Group photo at the 2015 summer school in the Philippines.

Apart from the ACRS, two additional SS were organised. The first one occurred in Addis Ababa, Ethiopia in 2013 as a response of the SC to the growing need for further knowledge and education in remote sensing and other geospatial sciences in this country. This was an important SS for the SC since it signified the expanding reach of the organization. Through the assistance of local authorities in 2013 at the UN Economic Commission for Africa (UNECA) Headquarters in Addis Ababa, this SS was able to accommodate participants from six African countries (Rwanda, Uganda, Tanzania, Ethiopia, Nigeria, and Kenya).

The other SS was held in Wuhan, Hubei, China in 2014. This was a major event for the working groups within the ISPRS Technical Commission VI (Education, Technology Transfer and Capacity Development) and an integration of a number of activities specifically organised for students and young researchers. The organization of the SS was led by Wuhan University, the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS) in coordination with ISPRS SC, and working groups WG VI/4, WG VI/5 and WG VI/6 within the ISPRS Technical Commission VI. This SS was held as part of the activities of the ISPRS Technical Commission VI Mid-Term Symposium with the theme, "Data,

Information and Knowledge Sharing for Geo-Education." This SS was integrated with the 2014 Geoinformatics Summer Camp and another ISPRS student-oriented activity – the 5th ISPRS 3S – Summer Students Seminar.

In the last four years, there was an overwhelming response to participate in the summer schools. Most of these SS hosted about 40 to 60 participants, comprised of both foreigners and locals. In addition, the current design of the SS proves to be an effective and efficient way of educating the participants in the latest advancements in remote sensing and geospatial sciences. The themes cover general or specific topics, the technical tours provide further knowledge on actual applications of remote sensing, and the social events foster relationships among the participants.

In addition, a Student Consortium SS will take place in Telč, Czech Republic in early July, 2016. Potentially, there also will be a SS organized in conjunction with the 2016 ACRS in Sri Lanka.

Youth Forum

The SC takes an active role at each ISPRS congress by organising variety of youth-specific events during the events. An entire day during the conference will be aimed at the young people in the SC. Namely, an event referred to as the Youth Forum will take place on Sunday, July 17, 2016 during the next ISPRS Congress in Prague. Youth forums are special sessions during ISPRS congresses that are dedicated to students. Young authors can have the chance to publish their work and present it in front of their peers. Three oral sessions with five presenters each will be organized during the 2016 Youth Forum. After the technical sessions, a panel discussion will take place. This public debate with the title "Industry/company or academia/science – where do I fit in after graduation?" will combine aspects from three speakers, each coming from the three different branches of the economy: the academic, private and public sectors. Last but not least, there will be a general assembly, where the new board members will be elected and any changes to the SC statutes will be voted on.

Newsletter

SC began publishing the SC Newsletter with the collaboration of students and young professionals aiming to announce SC activities and release interesting articles and interviews related to the society starting from 2007 onwards. Through its broadcasting life so far the Newsletter has fulfilled the needs of the organizations' expanding and

various members while gaining more attention and raising awareness. It is attempted that the newsletter is attractive in content and design in order to be noticed, and to create a positive image with the young readers. In this time frame, some sections such as career building, student exchange experience articles, more technical articles from student studies were added among regular sections which are interviews by academics, articles from students, regular columns, etc.

The SC Newsletter requires continuous activity, and the SC board and regular members collaborate from the brainstorming to the distribution phase, under the coordination of the editor-in-chief. In the last four-year period, 57 different contributors from various countries submitted content base to the SC Newsletter either on a regular or a one-time basis. All contributions submitted to the newsletter are published online and are under the creative commons license. This could be considered a contribution on its own as simply distributing articles through social media and e-mail channels was not a viable option. Both the contributors and the SC board members put in a lot of effort in writing, collecting, editing, designing and typesetting the articles, so publishing under a license was essential in order for all the work to be protected.

In the last four-year period, 14 issues were published and two more issues are planned to be published before the ISPRS Congress in Prague. Three of these 14 issues were distributed at the ISPRS summer schools organized in Indonesia, Ethiopia, Myanmar, China and the Philippines. These issues were prepared with regards to the topics of the related summer schools. The hardcopy issues have a special place among the rest not only because they need more elaborative work but also due to their real-time influence and positive feedback ending up in more people realizing the power of the SC and thus joining in as members.

There were two special issue topics of Newsletter, one dedicated to women in science and engineering. Since the fields of photogrammetry, remote sensing, and the geospatial sciences are still strongly dominated by men, these special topic issues encouraged the female members of the SC to publish their work. Another one focused on free and/or open source software that could be used for research or studies by young scientists and students. Both special issues took a lot of interest from both the contributors and the newsletter readers.

Website

The SC website (<http://www.isprs-sc.org/>) offers online information and materials, people can register as members by providing some basic information on the website. The membership registration is linked to an e-mail service provided by MailChimp.

During the mandate of the current board members (2012-2016), there were a few improvements with the website:

Facebook buttons such as “Like” and “Share” were made functional on the announcement and information pages.

Google analytics was installed to collect access logs and analyse access trends for better insights on the information dissemination.

Material from the SS that were happening in this period was uploaded.

Minor typos were corrected, layout adjustments were made, and malfunctioning hyperlinks were fixed.

There were attempts to replace the current system with Drupal (<http://www.drupal.org/>), the most popular content management system (CMS) used for web administration. The required functions and appearances of the new system were discussed among the board members and some volunteers, and then documented for possible implementation. Although the new Drupal-based system was expected to enable better content management for more dynamic and attractive pages, it could not be launched because it needed much more effort than expected in transferring the database of the current system to the database of the new system. This problem may have to be addressed by the next SC board members.

Social media outreach

In addition to the Student Consortium Newsletter and website, there exist a number of social media outlets, which serve as platforms for information exchange between the members of the organization. The SC maintains a MailChimp e-mail list, Flickr photo albums, a Facebook public group page, and Twitter and LinkedIn accounts.

Mailing list

Since 2012, the ISPRS Student Consortium has been using the MailChimp mass e-mail service to send out announcements to its users. Announcements include links to newly published newsletter issues, reminders about submission deadlines for conferences, and information about

ISPRS student-related events such as summer schools, and opportunities for travel funding. The mailing list currently contains 1,104 subscribers with an average of 23% “opens” and 5.5% “clicks”. In the last two years, the “opens” ranged from 24% to 26%, which is substantially higher than the “industry” average of 16%. The MailChimp service is not ideal for the SC as it is provided by a third party, which is different than the provider for the website and the e-mail address of the organization. One issue is that the website membership and the MailChimp mailing list cannot be perfectly synchronized as users of the e-mail service can subscribe or unsubscribe at any time, which cannot be automatically reflected in the membership list. However, the MailChimp service only takes minimal maintenance, and it is free for the current number of Student Consortium subscribers.

Flickr

SC has a Flickr account, where anybody can browse through the photo albums of the organization and download any posted photos. The photos included in the albums are from ISPRS student-related events such as summer schools and conferences. The account was initiated in 2009. There currently are 245 total photos organized in eleven albums. The ISPRS SC Flickr albums can be seen at: <https://www.flickr.com/photos/42199570@N03/sets>

Facebook

SC public group page on Facebook was launched in 2011. It was started so that SC members can freely interact with one another by posting job openings, opportunities for graduate studies, scholarships, and student-related event dates. While it is the most informal communication media for the society, it is also the most active one. Prior to the XXII ISPRS Congress in Melbourne, Australia in 2012 the public Facebook page had approximately 350 members, while prior to the 2014 mid-term symposium in Wuhan, China it had 2,528 members. The page currently has 4,670 members, which is more than 13-fold increase in the last four years, and a 184% increase in the last two years. The Web address for the Facebook page is: <https://www.facebook.com/groups/isprssc/>.

Twitter and LinkedIn

The Twitter and LinkedIn accounts for the SC were started in June 2012, before the Melbourne congress. Prior to the last mid-term symposium, there were 43 followers on Twitter and 63 members on LinkedIn. At the time of writing of this report (i.e., May 2016), there are 153 followers on Twitter and 118 LinkedIn members. The Twitter followers more than tripled and the LinkedIn ones almost doubled in the last two years. While the

absolute numbers cannot compare to the members on the Facebook public page, the stated increases still show solid growth. The Twitter and LinkedIn Web addresses can be found at: https://twitter.com/isprs_sc and <https://www.linkedin.com/groups/4510838>

Internal meetings

Numerous teleconferences and internal meetings took place between the members of the Student Consortium board and the WG VI/5 leaders since the 2012. Meetings took place on average once on every two months.

STRATEGIC PLAN FOR THE FUTURE

Building on its current activities the Student Consortium should focus its future work on the following topics/issues:

Bring the current website up to contemporary standards, i.e., it needs to be more dynamic and visually attractive.

Recruit new members for the society. For example, continue expanding in Africa, and encourage membership growth in Latin America (e.g., Brazil) and Eastern Europe (e.g., the Russian Federation). This could be done through public debates during conferences or through organizing summer schools in these regions.

Restructure the SC board and reduce the duration of certain SC board positions. These modifications will bring more balance in terms of the workload for the involved board members, and allow for more flexibility in both their appointment and resignation. Any changes made should be and will be included in the SC statutes.

Engage coordinators to promote the SC locally. Coordinators should have permanent positions (e.g., university instructors or professors) so that the network could be introduced to a constant flux of young professionals.

The organization should seek collaboration with student bodies from other interdisciplinary societies in order to complement its interests and gain more knowledge about related disciplines. Examples could be the International Geodetic Student Organization (IGSO) in Europe, the Student Advisory Council (SAC) part of the American Society for Photogrammetry and Remote Sensing (ASPRS), the Young Surveyors Network part of the International Federation of Surveyors (FIG).

Document procedures and archive reports on various SC engagements and activities in order to evaluate the current status of the organization and

to help in planning the future work of the society. This would also smoothen any transitions between SC board members. New SC board members could learn from the experiences of the previous members and they would not have to “reinvent the wheel.”

Conduct a survey in order to obtain knowledge about the current needs of the new generation of SC members. Likewise, get constructive feedback from student participants in summer schools and conferences in order to assist with the modification of current and the design of new activities.

Replace the word “student” in the name of the society, so graduate-level and post-doctoral researchers from any country would be comfortable joining. Likewise, rename the SC Newsletter as to encourage a larger volume of serious technical contributions.

Apart from the mentioned recommendations, the organization should strengthen further professional development opportunities for young professionals and continue to serve as a platform for information exchange.

The purpose of this report was to review the SC activities in the last four years. The SC has become more diverse in terms of its international membership pool (and its representation on the board), the locations of the organized events and

the general outlook of the society. With its activities the organization aims at strengthening the education and training experience for all young professionals no matter the stage of their career or background. A proof that the society has made visible progress and that it has had great impact on its members can be seen in its strong recognition over social media. For example, the activity of members and number of career opportunities for individuals on our social media platforms are constantly increasing.

It could be concluded that the progress and accomplishments achieved by the organization thus far are due to the careful planning of its current and past leadership. However, a lot has to still be done in the future to keep the society strong. The next four-year mandate will be an exciting time for the new board members and the members of the SC in general. The SC should continue to be a platform for inspiration, information exchange and networking between its members. Let us join efforts to make the Student Consortium an even better society - one which is respected world-wide and one of which the ISPRS should be proud of.

Written by the SC board members: Urša Kanjir,
Ivan Detchev, Sheryl Rose Reyes, Hiroyuki
Miyazaki, and Ayda Aktas