

**MINUTES OF THE COUNCIL MEETINGS**  
**26<sup>TH</sup> GENERAL ASSEMBLY, PRAGUE, CZECH REPUBLIC, 22-29 JUNE 2015**

**MINUTES OF THE FIRST SESSION**

**MONDAY, 22 JUNE, 2015 (13:30 – 18:00), CONFERENCE HALL, PRAGUE CONGRESS CENTRE**

**PARTICIPANTS**

**NATIONAL DELEGATES**

Argentina	Corina Risso
Australia	Ian Jackson
	Chris Rizos (alternate)
Austria	Georg Kaser
Canada	Zoltan Hajnal
China	Jianping Li
China-Taipei	Shaw-Chen Liu
Costa Rica	Marino Protti
Czech Republic	Vladimir Cermak
Denmark	Søren Gregersen
Finland	Elena Kozlovskaya
France	Jonathan Chenal
Germany	Jürgen Müller
Iceland	Kristin Vogfjörð
India	Vijay Prasad Dimri
Indonesia	Hasanuddin Abidin
	Dodi Sukmayadi (alternate)
	Djaya Murjaya (alternate)
Ireland	Alan Jones
Israel	Colin Price
Italy	Giuliano Panza
Japan	Setsuya Nakada
Luxembourg	Tonie van Dam
Mexico	Avtandil Gogichaishvili
New Zealand	David Rhoades
Norway	Oddgeir Kristiansen
Poland	Jan Krynski
Romania	Constantin Sava
Russia	Alexei Gvishiani
Slovak Republic	Miroslav Bielik
South Africa	Pieter Kotze
Sweden	Per Holmlund
Switzerland	Adrian Wiget
Turkey	Metin Kesap
	Hasan Yildiz (alternate)
United Kingdom	Harry Bryden
United States of America	Jeffrey Freymueller
Vietnam	Nguyen Xuan Anh

**LISTENERS**

Brazil	Denizar Blitzkow
Georgia	Tamaz Chelidze
Thailand	Krit Rammon
	Chaiwat Promthong
	Chainarong Puiaroon

**MEMBERS OF THE EXECUTIVE COMMITTEE**

President	Harsh Gupta
Vice-President	Michael Sideris
Secretary General	Alik Ismail-Zadeh
Past President	Tom Beer
Treasurer	Aksel Hansen
Bureau Member	Isabelle Ansoorge
Bureau Member	Pierre Hubert
Bureau Member	Kenji Satake
President IACS	Charles Fierz
President IAG	Chris Rizos
President IAGA	Kathryn Whaler
President IAHS	Hubert Savenije
President IAMAS	Athena Coustenis
President IAPSO	Eugene Morozov
President IASPEI	Domenico Giardini
President IAVCEI	Ray Cas

**MEMBERS OF THE FINANCE COMMITTEE**

Chair	David Collins
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**GUESTS OF THE PRESIDENT ATTENDING THE FIRST SESSION OF THE COUNCIL**

Chair of World Climate Research Programme	Guy Brasseur
IAHS Secretary General	Christophe Cudennec
IUGG Secretariat	Katrin Gundrum
Chair of Statutes and By-Laws Committee	David Kerridge
IUGG Assistant Secretary General	Franz G. Kuglitsch
IAGA Secretary General	Mioara Mandea
President of International Council for Science	Gordon McBean
Chair of Site Comparison Committee	Setsuya Nakada
Chair of Nominating Committee	Uri Shamir
Ass. Director of BISO, U.S. Nat. Acad. of Sciences	Ester Szein

**1. Greetings; Presentation of the credentials; election of tellers**

The First Session of the Council Meeting was called to order at 13:30 and began with a roll call of delegates. Delegates from 37 member countries were present at the opening. Delegates from 34 member countries were eligible to vote. The total number of countries eligible to vote was 51 (70

minus 9 in observer status minus 10 in associate status). The quorum (17) was reached.

Harsh Gupta welcomed all participants to the Council Meeting.

Vladimir Cermak, Council Delegate of the Czech Republic, proposed, seconded by Zoltan Hajnal, Council Delegate of Canada, three tellers for voting matters. The proposed tellers were Tom Beer, Katrin Gundrum, and Jianping Li. The Council Members accepted the proposal.

## **2. Approval of the Agenda**

The Agenda was approved.

## **3. Approval of the Minutes of the Council Meeting in Melbourne (2011)**

The Minutes of the 2011 Council Meeting were distributed to the participants of the 2015 General Assembly for their comments, published in the Comptes Rendus of the 25<sup>th</sup> General Assembly, and also posted on the IUGG web page. The Minutes were approved.

## **4. Brief Reports of the Officers**

### President Harsh Gupta

Harsh Gupta summarized his activities since 2011 as detailed in his report in the Council Meeting Agenda Book. (Note: the quadrennial report of the President can be found in the Comptes Rendus of the 2015 IUGG General Assembly.

He especially highlighted the establishment of the following union awards that are all awarded during the General Assembly in Prague:

- IUGG Early Career Scientist Award
- IUGG Gold Medal
- IUGG Fellowship

Harsh Gupta further stressed that the long-required IUGG Secretariat was set up at the Helmholtz Center, Potsdam in 2013, and Franz G. Kuglitsch was appointed as the Executive Secretary/Assistant Secretary General of IUGG. The office is being run to the satisfaction of all concerned.

Furthermore, he pointed out that good progress has been made in developing a Strategic Plan for IUGG for the period 2016-2023.

He mentioned that IUGG set up the new Union Commission on Climatic and Environmental Change (CCEC) in 2012. Its aim is to promote the scientific understanding of climate and environmental change, to boost research for reducing uncertainties in climate and environmental models, and to encourage trans-disciplinary research on related topics.

On the recently much-debated issue of Individual Membership of IUGG, Harsh Gupta pointed out that considering the importance of this issue and the different opinions of the Union Associations, the IUGG Bureau had decided to request the Union's Adhering Bodies and National Committees of the Member Countries to express their opinion on introducing an IUGG individual membership. The outcome has been analyzed and shall form the basis for discussion and further course of action.

To conclude, Harsh Gupta thanked for all the assistance he received as IUGG President. It was a pleasure for him working for the IUGG Bureau for 16 years (as Bureau Member 1999-2007, Vice-President 2007-2011, and President 2011-2015).

### Secretary General Alik Ismail-Zadeh

Alik Ismail-Zadeh summarized the activities of the Union since 2011 as detailed in his report in the Council Agenda Book. (Note: the quadrennial report of the Secretary General can be found in the Comptes Rendus of the 2015 IUGG General Assembly).

Among the activities related to the modernization of the Union, he especially highlighted the introduction of Affiliate and Honorary Membership as new categories of Union Membership and the setting-up of four Union Committees (Committee on Membership Issues, on Capacity Building and Education, on Honor and Recognition, and on Visioning). He further highlighted on the development of the IUGG Grants Program and the initiation of a new science education program that was given a significant boost by signing an agreement with the Abdus Salam International Centre for Theoretical Physics (ICTP). Another highlight in connection with the establishment of the Honor and Recognition program was the introduction of three major awards to be bestowed for the first time during the General Assembly: the Early Career Scientist Award, the Union Fellow award, and the Gold Medal to award Earth and space scientists for outstanding contributions to geodesy and geophysics and for unselfish international cooperation in research. In 2012, the enhancement of publication policy received substantial impetus from signing an agreement with the Cambridge University Press to develop a new series of special publications of the IUGG to publish peer-reviewed books on perspectives and reviews in multidisciplinary research. The first volume of this series, "Extreme Natural Hazards, Disaster Risks and Societal Implications" was published in 2014, and the second volume is planned for 2015.

### Treasurer Aksel Hansen

Aksel Hansen summarized his report on the financial status of the Union as detailed in the

Council Agenda Book. (Note: the quadrennial report of the Treasurer can be found in the Comptes Rendus of the 2015 IUGG General Assembly).

IUGG currently has 70 members, i.e., 60 Regular Members (9 of them in observer status) and 10 Associate Members. The Observers are: Belgium, Brazil, Bulgaria, Iran, Macedonia, Nicaragua, Nigeria, Philippines, and Thailand. The Associates are Albania, Armenia, Bolivia, Bosnia & Herzegovina, D.R. Congo, Georgia, Ghana, Mauritius, Morocco, and Peru.

The economic situation of IUGG is sound and the net balance allows IUGG some flexibility. However, differently than written in the Council Meeting Agenda Book, it is expected that the total assets of IUGG as a union will be close to zero by the end of 2015. The new budget for 2016-2019 will again allow for increased expenditures of the Union on scientific programs and grants.

Still, it is very important that IUGG will be able to keep its present members in the Union and at the same time attract new members.

#### Vice-President Michael Sideris

Michael Sideris summarized his activities since 2011 as detailed in his report in the Council Agenda Book. (Note: the quadrennial report of the Vice-President can be found in the Comptes Rendus of the 2015 IUGG General Assembly).

#### Review of IUGG Union Commissions and Working Group

Michael Sideris reported on the activities of the five Union Commissions and the activities of the Union Working Group on History (WGH) established in 2012. Detailed reports from the Union Commissions and Working Group can be found in the Council Agenda Book (Note: the quadrennial reports of the Union Commissions can be found in the Comptes Rendus of the 2015 IUGG General Assembly).

The five Union Commissions and the Union Working Group are:

- Commission on Climatic and Environmental Change (CCEC)
- Commission on Data and Information (UCDI),
- Commission on Geophysical Risk and Sustainability (GRC),
- Commission on Mathematical Geophysics (CMG)
- Committee on the Study of the Earth's Deep Interior (SEDI), and
- Working Group on History (WGH).

All Union Commissions and the Working Group have been very active for the reporting period.

#### Ratification of major decisions by the Bureau and Executive Committee

Alik Ismail-Zadeh summarized the major decisions of the IUGG Bureau and Executive Committee as detailed on page 68 of the Council Meeting Agenda Book which were taken after the last Council Meeting during the 25<sup>th</sup> IUGG General Assembly in 2011. The Bureau met three times during the term: in Lauterbad, Germany (September 2012), in Prague, Czech Republic (September 2013), and in Baku, Azerbaijan (June 2014). In addition, the Bureau held a teleconference meeting in November 2014. The Executive Committee met in Melbourne, Australia, (July 2011), in Prague, Czech Republic (September 2013), and at an extra-ordinary meeting in Vienna, Austria (April 2015).

Harsh Gupta pointed out that the Executive Committee recommended a ratification of these decisions by the Council by one single move. Motion was proposed by Marino Protti, Council Delegate of Costa Rica, and seconded by Ian Jackson, Council Delegate of Australia. A vote by hand was conducted. The decisions were unanimously, with no abstention, ratified by the Council.

#### **5. Matters of Membership**

Several new admissions of new members to IUGG require a two-thirds absolute majority vote of the Council for final approval (IUGG Statute 18).

The matters requiring votes were presented in detail in the Council Meeting Agenda Book. There was one vote for all matters of membership. A vote by ballot was conducted. Motion was proposed by Jeffrey Freymueller, Council Delegate of the US, seconded by Ian Jackson, Council Delegate of Australia. Of the 33 valid votes, there were 32 consents and one abstention.

Admission of the following members was ratified:

- Saudi Arabia as Regular Member (Cat. 2)
- Nicaragua as Regular Member (Cat. 1)
- The Commission for the Geological Map of the World (CGMW) as Affiliate Member
- The Young Earth Scientists (YES) Network as Affiliate Member
- The American Geosciences Institute (AGI) as Affiliate Member
- The International Association for Mathematical Geosciences (IAMG) as Affiliate Member
- The International Association for Geoethics (IAGETH) as Affiliate Member
- The International Consortium on Landslides (ICL) as Affiliate Member

Transfer of Membership of the following members was ratified:

- Albania from Regular Member (Cat. 1) to

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- Associate
- Armenia from Regular Member (Cat. 1) to Associate
  - Bosnia & Herzegovina from Regular Member (Cat. 1) to Associate
  - Greece from Regular Member (Cat. 3) to Regular Member (Cat. 2)

Costa Rica changed from Associate to Regular Membership (Cat. 1). Here, a vote of the Council was not required.

Alan Jones, Council Delegate of Ireland, noted the danger that small countries might leave the Union when introducing individual membership. Alik Ismail-Zadeh responded that the Executive Committee cannot decide on the introduction of individual membership but only the Council. He added that a majority of the 27 responses on the request of the IUGG President to the Union's Adhering Bodies and National Committees of the Member Countries to give an opinion about the introduction of IUGG individual membership was against the Union individual membership. Harsh Gupta advised to discuss these questions more detailed later under point 7. *Proposed Changes of Statutes and By-Laws*.

## 6. Report of the Nominating Committee

Uri Shamir, Chair of the Nominating Committee, gave the report of the Nominating Committee and introduced the nominees for the IUGG Bureau and IUGG Finance Committee.

As required by IUGG By-Laws 10b and 10c, one or two candidates have been nominated for each position. The positions and the nominated candidates were:

### IUGG Bureau

President: Michael Sideris (Canada)  
Vice-President: Kathy Whaler (UK)  
Secretary General: Alik Ismail-Zadeh (Germany/Russia)  
Treasurer: Aksel Hansen (Denmark)  
Bureau Members (Positions #1, #2, #3):  
Isabelle Ansorge (South Africa)  
Pierre Hubert (France)  
Jianping Li (China)  
Chris Rizos (Australia)  
Kenji Satake (Japan)  
Constantin Sava (Romania)

### IUGG Finance Committee

Position #1: Corina Risso (Argentina)  
Position #2: Virendra Tiwari (India)  
Position #3 and #4: David Collins (UK)  
Zoltan Hajnal (Canada)  
Jan Krynski (Poland)

Regarding the re-nomination of the Treasurer, Uri Shamir explained that this does not contradict By-Law 10a because Aksel Hansen is the sole candidate for this position and agreed to serve for another period if re-elected by the Council.

Marino Protti, Council Delegate of Costa Rica, asked for possibilities to increase the number of female candidates. Harsh Gupta urged the council delegates to try to encourage the members to nominate more female candidates for the next elections. Uri Shamir added that there is not just a gender, but also an important geographical and age issue.

Votes on the nominated candidates will be taken in the third session of the Council Meeting.

## 7. Proposed Changes of Statutes and By-Laws

Harsh Gupta invited David Kerridge, Chair of the Statutes and By-Laws Committee, to present the report given in the Council Agenda Book.

Nine proposed changes to the Statutes and By-Laws were received by the Statutes and By-Laws Committee and were discussed in the Council.

They are:

1. Permanent delegates to IUGG Council – to allow the Adhering Bodies of Member Countries to appoint Delegates to IUGG Council for the period between General Assemblies (normally for 4 years) so that the Council can vote electronically to make decisions as soon as the need arises.
2. Electronic voting by IUGG Council – to allow Council to vote electronically to improve the decision-making process within IUGG.
3. Definition of National Committees – to define the composition of National Committees.
4. Gender criterion – to give instructions to the IUGG Nominating Committee to consider gender balance when drawing up its list of candidates for election to the IUGG Bureau.
5. Permission for Associate Members to speak at Council Meetings – to allow a representative of an Associate Member to speak (without the right to vote) at Council meetings.
6. Expansion of the duties of the Finance Committee - to introduce one of the Finance Committee's functions, reviewing the membership categories of Member Countries, explicitly into the By-Laws as a formal duty.
7. Individual scientists and their eligibility for election – to allow individuals from countries in Associate or Observer status or from non-Member countries to be elected to Association

offices (except to the position of the Association President because the Association President is a member of the IUGG Executive Committee).

8. Assistants to the Secretary General and to the Treasurer – to place references to Assistants to the IUGG Secretary General and to the Treasurer in a single By-Law, rather than in two By-Laws as at present.
9. Minor (wording or orthographical) changes.

The changes were proposed by the IUGG Bureau with the following exceptions: In the case of Change No. 5, the Bureau acted on a request of Costa Rica and Change No. 6 was proposed by the United Kingdom.

In the discussion of the changes, the following points arose:

Regarding *electronic voting*, Alan Jones, Council Delegate of Ireland, wanted to know the difference between a permanent Council Delegate and a National Correspondent. Harsh Gupta clarified that the Adhering Bodies appoint the Council Delegates for the Council Meeting, and these individuals have the power to vote for the next council term, whereas a National Correspondent as correspondent to an Association has no vote.

David Kerridge further confirmed Harsh Gupta's presumption that a delegate has a vote only during the years the country had paid its membership fees.

To answer a question of Marino Protti, Council Delegate of Costa Rica, David Kerridge stated that the changes would be effective at the end of the Council Meeting.

Alan Jones, Council Delegate of Ireland, further wanted to know which measures are planned if technical prerequisites are not sufficient for electronic voting in some countries.

Metin Kesap, Council Delegate of Turkey, asked if electronic voting could be played off against attendance to council meetings. Alik Ismail-Zadeh explained that there shall be many topics requiring a meeting of the Council at IUGG General Assemblies; electronic voting will be used to make decisions on the urgent topics faster, not waiting for four years.

Regarding the *definition of National Committees*, Constantin Sava, Council Delegate of Romania, regretted that a distinct presidency definition with statements on the election of vice-presidents was still missing.

Regarding the *gender criterion*, Alan Jones, Council Delegate of Ireland, regretted that "age" was not included as a criterion. Michael Sideris

asks to take into consideration here that the Union is seeking - not "prescribing" - balance.

Relating to the *individual scientists' eligibility to elections*, individual IUGG membership was advocated by Ray Cas. Constantin Sava responded that he could not understand the striving for individual membership, taking into account that IUGG is a Union of associations, and not a society of individuals. Søren Gregersen, Council Delegate of Denmark, added that the dangers of introducing individual membership would be more convincing to him than the advantages. In this respect, Alan Jones voiced his worries that interdisciplinarity would suffer by more independent associations in the end.

Domenico Giardini regretted that the statutes and by-laws did not guarantee a better geographical distribution and gave the example that in many regional commissions, whole continents are not reflected.

A vote on the proposed changes of the Statutes and By-Laws will be taken in the third session of the Council Meeting.

#### **8. Report on the proposals to host the XXVII General Assembly in 2019**

IUGG received two bids to host the XXVII General Assembly in 2019 to be decided on:

- Montréal, Canada
- Delhi, India

Setsuya Nakada, Chair of the Site Evaluation Committee, informed that the committee comprised the following members:

Chair: Setsuya Nakada  
Members: Ian Allison  
Peter Suhadolc  
Kathryn Whaler  
Alik Ismail-Zadeh (ex officio)

In the following report, both proposals were shortly introduced and compared against the criteria published in the Guidelines for IUGG General Assemblies (<http://www.iugg.org/assemblies/>). The Site Evaluation Committee Members had also visited the proposed venues of the general assembly (S. Nakada visited Delhi, and K. Whaler Montreal). For their evaluation, impressions gained during these visits were also taken into consideration.

Alan Jones, Council Delegate of Ireland, asked if the proposed assembly dates are fixed. Organizing a General Assembly in March (as proposed by India) would be difficult to make for many scientists because of university exams and many meetings. Harsh Gupta noted India would be

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flexible to shift the days of the General Assembly to a period when more people have time to travel.

Alexei Gvishiani, Council Delegate of Russia, asked that the bidders should account for weather conditions at the proposed venues.

Harry Bryden, Council Delegate of the UK, asked whether a General Assembly had ever taken place in India or Canada. Harsh Gupta replied that IUGG

General Assemblies have not been held in India, but twice in Canada.

Each of the bidder countries will present their bids at the third session of the Council Meeting. A vote on the host of the XXVII General Assembly will be taken directly after these presentations.

The First Session of the Council Meeting closed at 18:00

## MINUTES OF THE SECOND SESSION

THURSDAY, 25 JUNE 2015 (8:30 – 12:00), CONFERENCE HALL, PRAGUE CONGRESS CENTRE

### PARTICIPANTS

#### NATIONAL DELEGATES

Argentina	Corina Risso
Australia	Chris Rizos
Austria	Georg Kaser
Canada	Zoltan Hajnal
Chile	Rony Jara Lecanda
	Jaime Ramirez (alternate)
China	Jianping Li
Costa Rica	Marino Protti
Croatia	Mirko Orlic
Czech Republic	Vladimir Cermak
Denmark	Søren Gregersen
Egypt	Ahmed Abdel Hady
Estonia	Rein Room
Finland	Elena Kozlovskaya
France	Claude Boucher
Germany	Jürgen Müller
Hungary	Jozef Adam
Iceland	Kristin Vogfjörd
India	Vijay Prasad Dimri
Indonesia	Hasanuddin Abidin
	Dodi Sukmayadi (alternate)
	Djaya Murjaya (alternate)
Ireland	Alan Jones
Israel	Colin Price
Italy	Giuliano Panza
Japan	Setsuya Nakada
Luxembourg	Tonie van Dam
Mexico	Avtandil Gogichaishvili
New Zealand	David Rhoades
Norway	Oddgeir Kristiansen
Poland	Jan Krynski
Romania	Constantin Sava
Russia	Alexei Gvishiani
Slovenia	Matjaž Mikoš
Spain	Jesus Gomes Gonzalez
Sweden	Per Holmlund
Switzerland	Adrian Wiget
Turkey	Metin Kesap
	Hasan Yildiz (alternate)
United Kingdom	Harry Bryden
United States of America	Jeffrey Freymueller
Vietnam	Nguyen Xuan Anh

#### LISTENERS

Belgium	Kris Vanneste
Brazil	Marcelo Sousa de Assumpcao
D.R. Congo	Wafula Mifundu
Georgia	Tamaz Chelidze
Nigeria	Shakirudeen Odunuga
Thailand	Krit Rammon
	Chaiwat Promthong
	Chainarong Puiaroon

#### MEMBERS OF THE EXECUTIVE COMMITTEE

President	Harsh Gupta
Vice-President	Michael Sideris
Secretary General	Alik Ismail-Zadeh
Past President	Tom Beer
Treasurer	Aksel Hansen
Bureau Member	Isabelle Ansoerge
Bureau Member	Pierre Hubert
Bureau Member	Kenji Satake
President IACS	Charles Fierz
President IAG	Chris Rizos
President IAGA	Kathryn Whaler
President IAHS	Hubert Savenije
President IAMAS	Athena Coustenis
President IAPSO	Eugene Morozov
President IASPEI	Domenico Giardini
President IAVCEI	Ray Cas

#### MEMBERS OF THE FINANCE COMMITTEE

Chair	David Collins
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#### GUESTS OF THE PRESIDENT ATTENDING THE SECOND SESSION OF THE COUNCIL

Vice-President ISPRS	Orhan Altan
American Geosciences Institute	Thomas J. Casadevall
President of International Lithosphere Program	Sierd Cloetingh
IUGG Secretariat	Katrin Gundrum
IUGG Assistant Secretary General	Franz G. Kuglitsch
IACS Secretary General	Andrew Mackintosh
IAGA Secretary General	Mioara Mandea
President of International Council for Science	Gordon McBean
International Association on Mathematical Geosciences	Jennifer McKinley
President of International Union of Geological Sciences	Roland Oberhänsli
IAPSO Secretary General	Johan Rodhe
Ass. Director of BISO, U.S. Nat. Acad. of Sciences	Ester Szein
IAMAS Secretary General	Hans Volkert

The Second Session of the Council Meeting was called to order at 08:30 with a roll call of delegates.

Delegates from 43 member countries were present, 37 eligible to vote. The total number of countries eligible to vote was 51 (70 minus 9 in observer status minus 10 in associate status). The quorum (17) was reached.

## 9. Strategic Plan for 2015-2023

Harsh Gupta invited Chris Rizos, Chair of the Visioning Committee, to present the first draft of the IUGG Strategic Plan for 2015-2023 given in the Council Agenda Book. (Note: the draft "Towards a Strategic Plan for the IUGG" can be found in the Council Meeting Agenda Book.)

Alan Jones, the Council Delegate of Ireland, wished for a better clarification of the attractiveness of IUGG, especially to young scientists, and a clearer differentiation between IUGG and IUGS. He noted the number of members has been static for a long time.

Claude Boucher, the Council Delegate of France, wished for better links to planetology or biological sciences.

Georg Kaser, the Council Delegate of Austria, wished to strengthen interdisciplinarity and to better promote joint sessions.

Ray Cas noted that for PhD students it is difficult to access IUGG General Assemblies since they take place only once in 4 years.

Harry Bryden, the Council Delegate of the UK, missed a clear definition where IUGG wants to lead.

It was decided to ask the National Delegates to comment on the Draft Strategic Plan and to revise Strategic Plan accordingly.

## 10. Reports by Association Presidents

Council Delegates were asked to note the reports of the Associations available in the Council Agenda book. (Note: the quadrennial reports of the IUGG Associations can be found in the Comptes Rendus of the 2015 IUGG General Assembly).

The IUGG Associations Presidents reported on the activities of the associations from 2011-2015.

### IACS

Charles Fierz gave a report on the activities of IACS. At present, there are 39 IACS national correspondents in the national committees of IUGG. Charles Fierz hoped that scientists in more member countries would become interested in collaboration within IACS and become a national correspondent and he encouraged the delegates to propagate this IACS appeal in their countries.

Besides IACS activities described in the quadrennial report, Charles Fierz noted that IACS has also many collaborations within (e.g. IAVCEI/IACS Joint Commission on Volcano-Ice Interactions) and outside IUGG (especially with ICSU and UN bodies).

He then especially highlighted DACA-13, the Davos Atmosphere and Cryosphere Assembly 2013, "Air, Ice & Process Interactions". This joint scientific assembly of IACS and IAMAS with more than 950 participants from 52 countries in Davos, Switzerland in July 2013 was excellently rated by the participants.

IACS established a number of new Working Groups and Standing Groups in the last four years. Charles Fierz highlighted the presently very active Working Group MICROSNOW ('From quantitative stratigraphy to microstructure-based modelling of snow'; 2012-2016), or the WGs 'Randolph Glacier Inventory and infrastructure for glacier monitoring' (2014-2018) and 'Glacier thickness estimation' (2014-2018).

In addition, IACS has Joint Bodies, i.e., Working Groups, Standing Groups, Steering Committees and jointly run with other international organizations (e.g. the World Glacier Monitoring Service; International Permafrost Association). IACS established an annual IACS Early Career Scientist Prize to be awarded for the first time in 2015.

A Joint IACS/International Glaciological Society (IGS)/World Climate Research Programme Climate and Cryosphere (CliC) Assembly will be held in Wellington, New Zealand, in February 2017.

### IAG

Chris Rizos reported that the IAG has 65 National Delegates and has elected a new Bureau and Executive Committee. The new officers of the IAG Bureau for 2015-2019 are:

President: Harald Schuh (Germany)  
Vice-President: Zuheir Altamimi (France)  
Secretary General: Hermann Drewes (Germany)

Chris Rizos highlighted the four IAG Commissions, the Inter-Commissions Committee, the 14 IAG Services, the Communication and Outreach Branch and the Global Geodetic Observing System (GGOS), which became a major component of IAG in the last years.

IAG maintains close cooperation with several organizations within and outside IUGG.

IAG offers individual membership and currently has around 200 members. The IAG Scientific Assembly was held in Potsdam, Germany, in 2013. Besides the General Assembly, IAG sponsored many smaller scientific meetings. Altogether, IAG sponsored 65 symposia, meetings and workshops during the last quadrennial.

At the 2015 IUGG General Assembly, IAG has contributed to 8 IAG led symposia, several joint symposia, 1 Union symposium, and 1 Union



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lecture. The next scientific assembly will be held jointly with IASPEI in 2017, in Kobe, Japan.

IAGA

Kathryn Whaler gave a report on the activities of IAGA. She especially highlighted the IAGA Scientific Assembly held in Merida, Mexico, in 2013 and the IAGA Book Series published in cooperation with Springer Sciences and Business Media B.V.

In the 2015 IUGG General Assembly, IAGA has contributed to 43 IAGA-led symposia, several joint symposia, 2 Union symposia, and 1 Union lecture. The next scientific assembly will be held jointly with IAMAS and IAPSO in 2017, in Cape Town, South Africa.

IAHS

Hubert Savenije mentioned that IAHS has a global network of individual members without voting rights. Ten International Commissions and three Working Groups initiate and conduct conferences, symposia, workshops, courses, publications and research programmes.

He mentioned that the IAHS 90<sup>th</sup> Anniversary meeting was held in Delft, The Netherlands in 2012, and that the IAHS Scientific Assembly was held jointly with IAPSO and IASPEI in Gothenburg, Sweden, in 2013.

Hubert Savenije brought special attention to the 2013-2022 Scientific Decade “Panta Rhei – Everything flows” being the major and extremely successful initiative of IAHS. The “PUB – Prediction in Ungauged Basins Decade” resulted in the publication of major books in 2013.

IAHS has a very strong publication output. From 2012-2015, the IAHS Press published among others the *Hydrological Sciences Journal*, 27 *Red Books*, 4 volumes in the *Benchmark Series*, and one special publication. Three further *Red Books* are in preparation for the current IUGG General Assembly.

Hubert Savenije emphasized that IAHS strongly cooperates with other international organizations especially with UNESCO IHP, and the World Meteorological Organization (WMO).

The next IAHS Assembly will be held in Port Elizabeth, South Africa, in 2017.

IAMAS

Athena Coustenis reported on the broad activities of IAMAS and its ten International Commissions which carry out, coordinate, and communicate the main research work.

She mentioned that IAMAS currently has 300-350 expert members and that the last IAMAS Assembly

was held in 2013 jointly with IACS in Davos, Switzerland.

The next scientific assembly will be held jointly with IAGA and IAPSO in 2017, in Cape Town, South Africa.

IAPSO

Eugene Morozov reported that IAPSO has 62 national delegates and works mainly through biennial scientific assemblies, working groups, commissions, services and website information.

The last IAPSO Scientific Assembly was held jointly with IAHS and IASPEI in Gothenburg, Sweden, in 2013. At the 2015 IUGG General Assembly, IAPSO has contributed to 13 IAPSO-led symposia, 7 interdisciplinary symposia and the Union symposia. The next scientific assembly will be held jointly with IAMAS and IAPSO in 2017, in Cape Town, South Africa.

Eugene Morozov emphasized that IAPSO bodies are closely working together and several Working Groups collaborate with SCOR and other international bodies.

He also highlighted the presentation of the Prince Albert 1 Medal, which was awarded to Prof. Arnold L. Gordon at the IAHS-IAMAS-IAPSO Assembly in Gothenburg in 2013, and to Prof. Toshia Yamagata at this 2015 IUGG General Assembly.

IASPEI

Domenico Giardini reported that the last IASPEI Scientific Assembly was held jointly with IAHS and IAPSO in Gothenburg, Sweden, in 2013.

He reported that IASPEI has elected a new Bureau and Executive Committee. The new officers of the IASPEI Bureau for 2015-2019 are:

President:	Thorne Lay (USA)
1st Vice-President:	Kenji Satake (Japan)
2nd Vice-President:	Michelle Grobbelaar (South Africa)
Secretary General:	Johannes Schweitzer (Norway)

IASPEI is currently active in 67 member countries.

He especially highlighted the scientific work done by the six commissions and the four regional commissions incl. the Asian Seismological Commission (ASC), the European Seismological Commission (ESC), the Latin American and Caribbean Seismological Commission (LACSC), and the African Seismological Commission (AfSC) of IASPEI, which are very active. Moreover IASPEI participates in six inter-association activities.

IASPEI issued many scientific products such as technical standards and recommendations,

seismological software, training courses, and earth models. Furthermore, IASPEI cooperated with many international organizations, e.g., with the *Global Earthquake Model (GEM)* project, the *International Digital Earthquake Archives (IDEA)* project, or with the *International Seismological Centre (ISC)*.

The next scientific assembly will be held jointly with IAG in 2017, in Kobe, Japan.

### IAVCEI

Ray Cas reported that IAVCEI has elected a new Bureau and Executive Committee. For 2015-2019, the new President will be Donald Dingwell (Germany), and the new Secretary General will be Roberto Sulpizio (Italy). He highlighted the involvement of several women in the Executive Committee and reported that most of the IAVCEI administration, correspondence and decision making are done online.

IAVCEI has more than 2,000 individual members including approximately 500 donor members who also financially support IAVCEI activities. IAVCEI also accepts individual members from non IUGG member countries.

IAVCEI activities are mainly done by its commissions and working groups.

Ray Cas highlighted the successful conference series "Cities on Volcanoes". The last IAVCEI Scientific Assembly took place in Kagoshima, Japan, in 2013. In general, more IAVCEI members attend the IAVCEI Assemblies than the IUGG Assemblies. The next IAVCEI Scientific Assembly will take place in Portland, OR, USA, in 2017.

In addition, IAVCEI publishes the Bulletin of Volcanology, newsletter, book series, conference proceedings etc.

The Council Delegates were asked to approve the reports. The reports were approved unanimously.

### **11. Report on scientific and educational programs**

Alik Ismail-Zadeh summarized the reports on the activities of the International Lithosphere Program (ILP) and the cooperation with the Abdus Salam International Centre for Theoretical Physics (ICTP). Detailed reports can be found in the Council Meeting Agenda Book. (Note: the quadrennial report of the International Lithosphere Program can be found in the Comptes Rendus of the 2015 IUGG General Assembly).

#### International Lithosphere Program (ILP)

ILP is a joint body of IUGG and the International Union of Geological Sciences (IUGS).

IUGG had appointed two representatives to the ILP Bureau for the term 2011-2015, namely David Jackson (USA) and Kalanchand Sain (India). Alan Green (Switzerland) is the joint IUGS/IUGG representative.

ILP holds annual meetings, either during the EGU General Assembly in Vienna, Austria, or the AGU Fall Meeting in San Francisco, USA, where the results and further tasks of its Task Forces and Regional Coordinating Committees are discussed. Furthermore, an ILP award is given to young excellent scientists active within the ILP Task Forces.

Alik Ismail-Zadeh especially highlighted the impressive publications list of ILP and its contributions to the scientific program at IUGG General Assemblies and International Geological Congresses. ILP will celebrate its 35th anniversary in 2015 in Potsdam, Germany.

The report on the ILP activities was approved unanimously by the Council Delegates.

#### Cooperation with the Abdus Salam International Centre for Theoretical Physics (ICTP)

In 2011, ICTP and IUGG signed a memorandum of understanding to promote educational programs related to geodesy and geophysics in the period 2012-2015.

In this 4-year period, IUGG co-sponsored 24 educational events organized by ICTP with a total of USD 80,000.

### **12. Relations with ICSU**

Alik Ismail-Zadeh summarized his report on the relations with the International Council for Science (ICSU). A detailed report can be found in the Council Meeting Agenda Book.

Alik Ismail-Zadeh highlighted the importance of (i) ICSU to promote interdisciplinary research, and (ii) strengthening the collaboration between IUGG and other ICSU GeoUnions (e.g. IUGS).

Alik Ismail-Zadeh welcomed Gordon McBean, ICSU President, and underlined that several former and present IUGG officers (still) have key roles within ICSU, e.g., Guoxiong Wu was elected member to the Executive Board of ICSU (2011-2014), Tom Beer was selected as a member of the ICSU Committee on Scientific Planning and Review (CSPR) (2011-2014, 2014-2017).

IUGG has been a very active participant in ICSU programs, IUGG people were selected to serve for several ICSU panels and working groups, e.g., in the Scientific Committee of the Integrated Research and Disaster Risk, the Scientific Committee of the ICSU World Data System, the Scientific Committee of the ICSU Health and

Wellbeing in the Changing Urban Environment, and the Scientific Committee on Future Earth of the ICSU Regional Office for Africa.

Alik Ismail-Zadeh highlighted the IUGG participation in the ICSU General Assemblies in 2011, 2013, and 2014 to further develop the links between ICSU and IUGG, as well as the links between IUGG and the other nine GeoUnions of ICSU (<http://www.icsu-geounions.org>).

Alan Jones, Council Delegate of Ireland, suggested that, at Council Meetings, there should be more time for discussing topics (e.g. IUGG Strategic Plan) and much less time for presenting the content of the Agenda Book.

No further comments or questions were raised by the Council.

### **13. Reports from Liaisons to ICSU Commissions and Committees**

In order to conserve time, Alik Ismail-Zadeh referred the Council to the reports in the Agenda Book and only briefly reviewed each of the organizations. He welcomed any comments and questions by the Council.

- Committee on Data for Science and Technology (CODATA),
- Committee on Space Research (COSPAR),
- ICSU Regional Office for Africa,
- ICSU Regional Office for Asia and the Pacific,
- ICSU Regional Office for Latin America and the Caribbean,
- Scientific Committee on Antarctic Research (SCAR),
- Scientific Committee on Oceanic Research (SCOR),
- Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)
- ICSU-ISSC-UNISDR Scientific Committee on Integrated Research on Disaster Risk (IRDR)

The new liaison officers were recommended and voted on in the Third Session of the Council Meeting.

No comments or questions were raised by the Council. The reports of the liaisons were accepted unanimously.

### **14. Reports from Liaisons to inter-governmental and other organizations**

Alik Ismail-Zadeh continued to briefly review on these reports in the Council Agenda Book.

- Cartographic Office of the United Nations,
- International Civil Aviation Organization (ICAO),
- American Institute of Geography and History (PAIGH),
- UNESCO International Hydrological Programme (IHP),
- UNESCO Intergovernmental Oceanographic Commission (IOC),
- World Climate Research Programme (WCRP),
- World Meteorological Organization (WMO),
- Consultative Committee for Time and Frequency (CCTF)
- Group on Earth Observations (GEO)

No comments or questions were raised by the Council. The reports of the liaisons were accepted unanimously.

### **15. Report of the IUGG Finance Committee**

David Collins presented the report of the Finance Committee which was distributed during his presentation. He mentioned that the IUGG is doing well in maintaining the annual balances of roughly the funds necessary to support the Union's outgoings for one calendar year (USD 500,000 +/- 5%). The Finance Committee is concerned that out of 70 IUGG member countries, only 50 are fully active members with subscriptions paid up to date, and therefore suggested to consider adaptations in the calculations of the membership category. Also, IUGG should try to (re-)gain more member countries by explaining to them the benefits of an IUGG membership.

The report of the Finance Committee was accepted by the Council.

### **16. Presentation of the 2016-2019 Budget**

Aksel Hansen discussed the proposed budget. As recommended by the Finance Committee, the reserve of the IUGG budget was set to approximately 1 year's turnover.

He highlighted the significant changes, then went through the budget line by line and answered questions as they were asked.

A final vote to adopt the 2016-2019 Budget took place in the Third Session of the Council Meeting.

The Second Session of the Council Meeting closed at 12:00.

## MINUTES OF THE THIRD SESSION

MONDAY, 29 JUNE 2015 (15:00 – 18:00), CONFERENCE HALL, PRAGUE CONGRESS CENTRE

<b>PARTICIPANTS</b>		Thailand	Krit Rammon
<b>NATIONAL DELEGATES</b>			Chaiwat Promthong
			Chainarong Puiaroon
Argentina	Sergio Cimbaro		
	Corina Risso (alternate)		
Australia	Ian Jackson	<b>MEMBERS OF THE EXECUTIVE COMMITTEE</b>	
	Chris Rizos (alternate)	President	Harsh Gupta
Austria	Georg Kaser	Vice-President	Michael Sideris
Azerbaijan	Ibrahim Guliyev	Secretary General	Alik Ismail-Zadeh
	Gulam Babayev (alternate)	Past President	Tom Beer
Canada	Zoltan Hajnal	Treasurer	Aksel Hansen
Chile	Rony Jara Lecanda	Bureau Member	Isabelle Ansoorge
	Jaime Ramirez (alternate)	Bureau Member	Pierre Hubert
China	Jianping Li	Bureau Member	Kenji Satake
Costa Rica	Marino Protti	President IACS	Charles Fierz
Croatia	Mirko Orlic	President IAG	Chris Rizos
Czech Republic	Vladimir Cermak	President IAGA	Kathryn Whaler
Denmark	Søren Gregersen	President IAHS	Hubert Savenije
Egypt	Ahmed Abdel Hady	President IAPSO	Eugene Morozov
Estonia	Rein Room	President IASPEI	Domenico Giardini
Finland	Elena Kozlovskaya	President IAVCEI	Ray Cas
France	Claude Boucher		
Germany	Jürgen Müller	<b>MEMBERS OF THE FINANCE COMMITTEE</b>	
Hungary	Laszlo Bozo	Chair	David Collins
Iceland	Kristin Vogfjörð		
India	Vijay Prasad Dimri	<b>GUESTS OF THE PRESIDENT ATTENDING THE THIRD SESSION OF THE COUNCIL</b>	
Indonesia	Hasanuddin Abidin	IAHS Secretary General	Christophe Cudennec
	Dodi Sukmayadi (alternate)	ICSU World Data System	Michael Diepenbroek
	Djaya Murjaya (alternate)	Manager Business	Marc-André Gemme
Ireland	Alan Jones	Development, Convention and exhibition Centre	
Israel	Colin Price	Montréal	
Italy	Giuliano Panza	Secretary, Union	Adelina Geyer Traver
Japan	Setsuya Nakada	Commission on Data and Information	
Luxembourg	Tonie van Dam	IUGG Secretariat	Katrin Gundrum
Mexico	Jose Luiz Macias Vazquez	Congress Director ISPRS	Lena Halounová
New Zealand	David Rhoades	Integrated Research on Disaster Risk Committee	David Johnston
Norway	Oddgeir Kristiansen	IUGG Assistant Secretary General	Franz G. Kuglitsch
Poland	Jan Krynski	President of the Federal Institute for Geosciences and Natural Resources (BGR)	Hans-Joachim Kämpel
Portugal	Jorge Miguel Miranda	IGA Secretary General	Mioara Mandea
Romania	Constantin Sava	Presenter of the Indian Bid (IUGG 2019)	Ajai Manglik
Russia	Anatoly Soloviev	International Association on Mathematical Geosciences	Jennifer McKinley
Slovak Republic	Miroslav Bielik	IAPSO Secretary General	Johan Rodhe
Spain	Carmen Lopez	IASPEI Secretary General	Peter Suhadolc
Sweden	Per Holmlund	Ass. Director of BISO, U.S. National Academy of Sciences	Ester Szein
Switzerland	Adrian Wiget		
Turkey	Metin Kesap		
	Hasan Yildiz (alternate)		
United Kingdom	Harry Bryden		
United States of America	Jeffrey Freymueller		
<b>LISTENERS</b>			
Belgium	Kris Vanneste		
Brazil	Marcelo Sousa de Assumpcao		
D.R. Congo	Wafula Mifundu		
Nigeria	Shakirudeen Odunuga		

XXVI General Assembly of the International Union of Geodesy and Geophysics  
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President of European Geosciences Union	Hans Thybo
Candidate for Finance Committee	Virendra Mani Tiwari
IAMAS Ex-Officio Member	John Turner
Executive Director, Canadian Geophysical Union	Gordon Young

The Third Session of the Council Meeting was called to order at 15:00 with a roll call of delegates. Delegates from 43 member countries were present, 39 eligible to vote. The quorum (17) was reached. Delegates from Greece, China-Taipei, Slovenia, and South Africa had deposited their votes with the IUGG President for matters to be taken up at the Third Session. Altogether, only 42 votes were cast.

Tom Beer, Katrin Gundrum, and Jianping Li were appointed as tellers.

Harsh Gupta reminded the Council Delegates about the Closing Ceremony taking place on 1 July from 16:30-18:00 followed by a farewell reception.

#### 17. Adoption of the 2016-2019 Budget

The Council was asked to vote on the 2016-2019 Budget presented in the Second Session of the Council Meeting. Votes on financial matters are weighted by category. The results are given below.

For: 137      Against: 0      Abstain: 5

The 2016-2019 Budget was adopted.

#### 18. Election of IUGG Officers

The Council was asked to elect the IUGG Officers for the term 2016-2019. All candidates were announced in the First Session of the Council Meeting. No further comments or questions were asked by the Council. This vote requires a simple majority of all ballots cast. For the position of President, Michael Sideris was elected. For the position of Vice-President, Kathryn Whaler was elected. For the position of Secretary General, Alik Ismail-Zadeh was elected. For the position of Treasurer, Aksel Hansen was elected. The three Bureau Members elected are Isabelle Ansorge, Pierre Hubert and Chris Rizos. David Collins, Jan Krynski, Corina Risso and Virendra Tiwari are the elected Finance Committee members for the term 2015-2019. The actual vote tallies are given below:

Candidate	For	Against	Abstain
Michael Sideris for President	42	0	0
Kathryn Whaler for Vice-President	40	0	2
Alik Ismail-Zadeh for Secretary General	39	1	2

Aksel Hansen for Treasurer	42	0	0
Isabelle Ansorge for Bureau Member	31		
Pierre Hubert for Bureau Member	23		
Jianping Li for Bureau Member	20		
Chris Rizos for Bureau Member	24		
Kenji Satake for Bureau Member	11		
Constantin Sava	15		
Corina Risso for Finance Committee	41	1	0
Zoltan Hajnal for Finance Committee	22		
Virendra Tiwari for Finance Committee	37	0	4
David Collins for Finance Committee	32		
Jan Krynski for Finance Committee	23		

#### 19. Presentation of the preliminary proposal to host a World Geosciences Congress 2023/2024 in Germany

Hans Joachim Kumpel, President of the Federal Institute for Geoscience and Natural Resources (BGR), the IUGG adhering body for Germany, presented the initiative to host a joint IUGG/IUGS Congress in Germany in the time frame 2023/24.

He mentioned particularly that the estimated number of participants is approximately 10,000-14,000, and the congress should last 10 days.

Alan Jones, Council Delegate of Ireland, mentioned that the German plan for a joint IUGG/IUGS congress is an excellent initiative, and he supported this initiative.

#### Presentation of National Reports

The Turkish National Committee for Geodesy and Geophysics was the only national committee, whose representative requested a time for presentation of a National Report. Harsh Gupta invited Hazan Yildiz, Council Delegate of Turkey, to present the report during the time the votes were being cast. During his presentation Hazan Yildiz mentioned particularly that the Turkish National Union of Geodesy and Geophysics decided to bid for hosting in Istanbul the IUGG General Assembly in 2023, and the Turkish government supported this initiative.

#### 20. Presentations of the proposals to host the XXVII General Assembly. Selection of the venue of the XXVII General Assembly.

The IUGG Bureau received two bids to host the XXVII IUGG General Assembly. One from Montreal, Canada, and one from New Delhi, India. Harsh Gupta invited the presenters of both bids to give a short presentation of ten minutes to the Council.

Following this, the Council was asked to vote on these two venues. The results were as follows:

2015 GA venue	Votes
Montreal, Canada	25
New Delhi, India	17

The XXVII IUGG General Assembly will take place in Montreal, Canada.

### 21. Vote on proposed changes of Statutes and By-Laws

Before the vote on each proposed change to the IUGG Statutes and By-Laws, David Kerridge answered final questions that arose. If Proposals 1 and 2 for changes to the Statutes and By-Laws are approved by the Council, the Council authorizes the Secretary General to ask Adhering Bodies of Member Countries to appoint a Council Delegate, with the authority to vote, by 1 November 2015.

All proposed changes were accepted by the Council. The changes to the Statutes and By-Laws come into effect directly after the closure of the General Assembly. The results of each vote are given below (on Statutes and By-Laws, altogether only 41 ballots were cast).

Proposal	For	Against	Abstain
1. Permanent Delegates to the IUGG Council	39	1	1
2. Electronic Voting by IUGG Council	40	1	0
3. Definition of National Committees	35	4	2
4. Gender Criterion	38	2	1
5. Permission for Associate Members to speak at Council	38	2	1
6. Expansion of the duties of the Finance Committee	39	0	2
7. Individual Scientists and their Eligibility for Election	33	6	2
8. Assistants to the Secretary General and to the Treasurer	37	1	3

### 22. Renewal of the IUGG liaison officers for 2015-2019

Alik Ismail-Zadeh presented the following table of proposed liaison appointments to the Council. Harsh Gupta then asked the Council to approve the appointments and there was no dissent. Principle Liaisons are marked by bold:

Organization	Liaisons 2015-2019
CODATA	<b>Alexei D. Gvishiani (RUSSIA)</b> Bernd Richter (GERMANY)
COSPAR	<b>Andrew W. Yau (CANADA)</b> Geoffrey Blewitt (USA)
ROA	<b>Isabelle Ansoerge (SOUTH AFRICA)</b>
ROAP	<b>Sukanta Roy (INDIA)</b>
ROLAC	<b>Jaime U. Fucugauchi (MEXICO)</b>
SCAR	<b>Ian Allison (AUSTRALIA)</b> John Turner (UK)
SCOR	<b>Denise Smythe-Wright (UK)</b> John Turner (UK)
SCOSTEP	<b>Vladimir Kuznetsov (RUSSIA)</b>
WDS	<b>Aude Chambodut (FRANCE)</b> Ruth E. Neilan (USA)
The U.N. Geospatial Information Section	<b>Hermann Drewes (GERMANY)</b>
UNESCO-IHP	<b>Christophe Cudennec (FRANCE)</b> Georg Kaser (AUSTRIA)
UNESCO-IOC	<b>Stefania Sparnocchia (ITALY)</b> Eugene Morozov (RUSSIA)
ICAO	<b>John Eichelberger (USA)</b> Arnau Folch (SPAIN)
IRDR	<b>Harsh Gupta (INDIA)</b>
WCRP	<b>Tom Beer (AUSTRALIA)</b> Richard Essery (UK)
CCTF	<b>Richard Biancale (FRANCE)</b> Claude Boucher (FRANCE)
PAIGH	<b>Laura Sanchez (GERMANY)</b>
WMO incl. GFCS	<b>Arthur Askew (SWITZERLAND)</b> Xiao Cunde (CHINA) Alan Thomson (UK) Christophe Cudennec (FRANCE) Joyce E. Penner (USA) Arnau Folch (SPAIN)

Group on Earth Observations (GEO)	<b>Alik Ismail-Zadeh (GERMANY/RUSSIA)</b> Claude Boucher (FRANCE) Mioara Manda (FRANCE) Peter Fox (USA) Hansjörg Kutterer (GERMANY) Göran Ekström (USA)
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### 23. Presentation and adoption of the Resolutions

Tom Beer, Chair of the Resolutions Committee, began his report by introducing the members of the Resolutions Committee: Kusumita Arora, Domenico Giardini, Laura Sanchez, and Pierre Hubert. Associations had been asked to submit their Resolutions to the Resolutions Committee. Each Resolution was then examined by the Resolutions Committee and carefully considered by the IUGG Executive Committee before being brought to the Council. Seven Resolutions plus one traditional Resolution of Thanks of IUGG to all organizers of the 2015 General Assembly were put on screen, read and commented on by Tom Beer. He welcomed questions and comments by the Council. All Resolutions were reviewed in British English. [The final versions of the Resolutions that were adopted will be presented in the Comptes Rendus as a separate section.]

Resolution 1: Role of Ocean in Climate.

Resolution 2: Future Satellite Gravity and Magnetic Mission Constellations.

Resolution 3: Global Geodetic Reference Frame.

Resolution 4: Real-time GNSS Augmentation of the Tsunami Early Warning System.

Resolution 5: Geo-energy Resources.

Resolution 6: Geoscience Co-operation.

Resolution 7: International Scientific Activities and Cooperation.

Resolution 8: Thanks.

It was regretted that the resolutions were presented only during the very Council Meeting day when they are to be voted on, thus making real debate difficult. Tom Beer described the tight schedule and that the Resolutions Committee itself could discuss the resolutions version approved by the Executive Committee only this morning. Alik Ismail-Zadeh noted that the Bureau would seek to ease this tight schedule in future.

Following brief discussion on the resolutions, Harsh Gupta asked the Council to vote on the Resolutions. The Resolutions passed with one abstention.

### Closing remarks

Upon suggestion of Marino Protti, Council delegate of Costa Rica, Alik Ismail-Zadeh asked the delegates to meet outside for a group photo after the meeting.

Harsh Gupta thanked all Council Members, Committees and organizers of the General Assembly for their help and assistance to make the Assembly such a success. He invited all Members to make their comments for the improvement of future General Assemblies known to IUGG.

Harsh Gupta declared that the Council of Delegates to the XXVI General Assembly was adjourned at 18:00.

XXVI General Assembly of the International Union of Geodesy and Geophysics  
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## IUGG Budget 2016 - 19, approved 29 June 2015, Prague

Based on discussions at Bureau meetings in Baku, 2014, and in Prague 2015

Approved by Council, Finance Committee and Executive Committee in Prague, 2015

All figures, except the value and number of units, are in thousands of US dollars

Year	2015	2016-2019	2012-2015
Estimated unit value	\$1.905	\$1.940-2.050	\$1.800-1.900
Estimated number of units	270	1080	1100
<b>INCOME</b>			
		Budget 2016-2019	Budget 2012-2015
1. MEMBERSHIP DUES	514,4	2157,3	2036,0
2. ASSEMBLY SURCHARGE		20,0	20,0
3. SALES OF PUBLICATIONS, ETC		0,8	1,0
4. MISCELLANEOUS (interest)		0,0	50,0
5. ICSU GRANTS		0,0	30,0
<b>6. TOTAL INCOME</b>		<b>2178,1</b>	<b>2137,0</b>
7. INCOMING BALANCE 2016	<b>500,0</b>		
<b>EXPENDITURES</b>			
		Budget 2016-2019	Budget 2012-2015
<b>11. ADMINISTRATION</b>		<b>400,0</b>	<b>470,0</b>
11.1 Personnel		60,0	
11.2 Equipment		4,0	
11.3 Supplies		16,0	
11.4 Communication		17,0	
11.5 Travel, organizational		295,0	
11.6 Miscellaneous		8,0	
<b>12. NEW INITIATIVES</b>		<b>160,0</b>	<b>240,0</b>
12.1 Education and outreach		80,0	
12.2 Science		80,0	
<b>13. ASSEMBLIES</b>		<b>110,0</b>	<b>160,0</b>
13.1 Organization		10,0	
13.2 Travel Grants for countries in need		60,0	
13.3 Other Travel Grants		40,0	
<b>14. SYMPOSIA</b>		<b>60,0</b>	<b>90,0</b>
14.1 Symposia		60,0	
<b>15. ASSOCIATIONS</b>		<b>1059,1</b>	<b>998,0</b>
15.1 Allocations		1059,1	
<b>16. DUES</b>		<b>120,0</b>	<b>100,0</b>
16.1 ICSU		120,0	100,0
<b>17. ICSU GRANTS</b>		<b>0,0</b>	<b>0,0</b>
<b>18. UNION ACTIVITIES</b>		<b>250,0</b>	<b>372,0</b>
18.1 GRC, SEDI, CMG, UCDI, CCEC, WGH		104,0	
18.2 Inter-Union Science (ILP)		60,0	
18.3 Liaison Officers		40,0	
18.4 International Scientific Programs		24,0	
18.5 New commissions (UCPS)		22,0	
<b>19. FEES</b>		<b>32,0</b>	<b>32,0</b>
20.1 Professional Services		20,0	
20.2 Bank Fees		12,0	
<b>20. CONTINGENCIES</b>		<b>10,0</b>	<b>20,0</b>
<b>21. TOTAL EXPENDITURES</b>		<b>2201,1</b>	<b>2482,0</b>
23. OUTGOING BALANCE 2019		<b>477,0</b>	