

**MINUTES OF THE COUNCIL MEETINGS**  
**27<sup>TH</sup> GENERAL ASSEMBLY, MONTREAL, CANADA, 8-18 JULY 2019**

**MINUTES OF THE FIRST SESSION**

**TUESDAY, 9 JULY, 2019 (14:00 – 18:00), ROOM 524AB, MONTREAL CONVENTION CENTRE**

**PARTICIPANTS**

**NATIONAL DELEGATES**

Australia	Matt King
Austria	Johannes Böhm
Belgium	Philippe Huybrechts (alternate)
Canada	Gordon Young
Chile	Eduard Cayul Aristondo
China	Jianping Li
China-Taipei	Bor-Shouh Huang
Costa Rica	Marino Protti Quesada
Czech Republic	Eduard Petrovsky
Denmark	Søren Gregersen
Egypt	Nasser M. Abou Ashour
Finland	Jyri Näränen
France	Claude Boucher
Germany	Jürgen Müller
Hungary	Laszlo Bozo (alternate)
India	Harsh Gupta
Israel	Colin Price
Italy	Fausto Guzzetti
Japan	Setsuya Nakada
Mexico	Miguel Angel Santoya
New Zealand	David Rhoades
Poland	Jan Krynski
Romania	Constantin Sava
Russia	Anatoly Soloviev
Slovakia	Peter Vajda
Spain	Marcelino Valdez Perez de Vargas
Sweden	Per Holmlund
Switzerland	Elmar Brockmann
United Kingdom	Jackie Kendrick (alternate)
United States of America	Steven McNutt Efi Foufoula-Georgiou (alternate)

**LISTENERS**

Argentina	Corina Risso
Brazil	Roberto Teixeira Luz

**MEMBERS OF THE EXECUTIVE COMMITTEE**

President	Michael Sideris
Vice-President	Kathy Whaler
Secretary General	Alik Ismail-Zadeh
Treasurer	Aksel Hansen
Bureau Member	Pierre Hubert
Bureau Member	Chris Rizos
President IASPEI	Thorne Lay

**GUESTS OF THE PRESIDENT ATTENDING THE  
FIRST SESSION OF THE COUNCIL**

IACS Secretary General	Andrew Mackintosh
Chair of Statutes and By-Laws Committee	Charles Fierz
Chair of Nominating Committee	Tom Beer
IUGG Executive Secretary (Minute Taker)	Franz Kuglitsch
IUGG Secretariat	Katrin Gundrum
Ass. Director of BISO, U.S. Nat. Acad. of Sciences	Ester Sztein
Executive Secretary, SCL/ILP	Alexander Rudloff
University of Nebraska DTU Space, Denmark	Priscilla Grew
Secretary, National Committee, Russia	Niels Andersen Roman Krasnoperov

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

The First Session of the Council Meeting was called to order at 14:00 and began with a roll call of delegates. Delegates from 32 member countries were present at the opening. Delegates from 30 member countries were eligible to vote. The total number of countries eligible to vote was 48 (72 minus 10 in observer status minus 14 in associate status). The quorum (16) was reached.

Michael Sideris welcomed all participants to the Council Meeting.

Alik Ismail-Zadeh noted that the Bureau proposed to appoint Katrin Gundrum, Harsh Gupta, and Ester Sztein as the three tellers for voting matters. Gordon Young, Council Delegate of Canada, proposed, seconded by Marino Protti, Council Delegate of Costa Rica, to accept the three tellers. A vote by hand was conducted. The Council Members accepted the proposal with one abstention.

**2. Approval of the Agenda**

The Agenda was approved unanimously.

**3. Approval of the Minutes of the Council  
Meeting in Prague (2015)**

The Minutes of the 2015 Council Meeting were distributed to the participants of the 2019 General Assembly (IUGG2019) for their comments,

published in the Comptes Rendus of the 26<sup>th</sup> General Assembly, and also posted on the IUGG [website](#). Constantin Sava, Council Delegate of Romania, proposed, seconded by Søren Gregersen, Council Delegate of Denmark, to approve the minutes of the 2015 Council Meeting. A vote by hand was conducted. The Minutes were approved unanimously.

#### 4. Reports of the IUGG Officers

##### President Michael Sideris

Michael Sideris summarized the major Union activities since 2015 as detailed in his report in the [Council Meeting Agenda Book](#) (pages 30-36). Note: the quadrennial report of the President is also published in the Comptes Rendus of IUGG2019. The presentation he gave can be downloaded [here](#).

He especially highlighted (i) the changes made to the IUGG Statutes and By-Laws, (ii) the approval and implementation of the IUGG Strategic Plan (2016-2023), (iii) major activities in outreach, education, science and policy, (iv) IUGG's involvement in the International Science Council (ISC) and its GeoUnions, (v) celebrations related to the Centennial Anniversary of IUGG., and (vi) the preparations and highlights of IUGG2019.

Matt King, Council Delegate of Australia, asked how the progress against the Strategic Plan is tracked. Michael Sideris clarified that, based on the recommendations given in Strategic Plan, action items (e.g., how to attract new member countries) have been identified and addressed.

Harsh Gupta, Council Delegate of India, complimented Michael Sideris on his report on focusing on fundamental research.

##### Secretary General Alik Ismail-Zadeh

Alik Ismail-Zadeh summarized the Union activities since 2015 as detailed in his report in the [Council Meeting Agenda Book](#) (pages 37-47). Note: the quadrennial report of the Secretary General is also published in the Comptes Rendus of IUGG2019. The presentation he gave can be downloaded [here](#).

He especially highlighted (i) developments in the structure and membership of IUGG, (ii) the Scientific Assemblies organized by the Associations in 2017, (iii) IUGG conferences and symposia, (iv) IUGG Business Meetings, (v) the IUGG Science Education and Grants Program, (vi) Publications of IUGG and the Associations, (vii) the IUGG Honor and Recognition Program, (viii) International Cooperation with ISC, its GeoUnions and Partner Organizations, and (ix) Science Policy and Diplomacy.

##### Treasurer Aksel Hansen

Aksel Hansen summarized his report on the financial status of the Union as detailed in the [Council Meeting Agenda Book](#) (pages 48-56). Note: the quadrennial report of the Treasurer is also published in the Comptes Rendus of IUGG2019. The presentation he gave can be downloaded [here](#).

He especially highlighted (i) the final financial overview for 2012-2015, (ii) the preliminary financial overview for 2016-2019, (iii) and current membership issues.

He noted that around 75% of the total budget is reserved for scientific activities. 50% is distributed among the Associations, 25% is spent by IUGG on Symposia Support, the Grants Program, Publications etc. Around 25% of the total budget is reserved for administration.

IUGG currently has 72 members, i.e., 58 Regular Members (10 of them in observer status) and 14 Associate Members accounting for a total number 276 units. He noted that over the last two decades the number of paid units has decreased from almost 300 to around 260.

The economic situation of IUGG is sound and the net balance allows IUGG some flexibility. The new budget for 2020-2023 will 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 Kathryn Whaler

Kathryn Whaler summarized the major activities of the six Union Commissions and the Union Working Group on History (WGH) as detailed in her report in the [Council Meeting Agenda Book](#) (pages 57-95). Note: the quadrennial reports of the Vice-President and Union Commissions are also published in the Comptes Rendus of IUGG2019. The presentation she gave can be downloaded [here](#).

The six Union Commissions and the Union Working Group are:

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

All Union Commissions and the Working Group on History have been very active for the reporting period. WGH was dedicated to the preparations related to 100<sup>th</sup> anniversary celebrations of IUGG and ceased its activities in 2019.

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

Alik Ismail-Zadeh summarized the major decisions of the Bureau and Executive Committee as detailed in his report in the [Council Meeting Agenda Book](#) (pages 40-42), which were taken after the last Council Meeting during the 26<sup>th</sup> IUGG General Assembly in 2015. Note: the major decisions are part of the quadrennial report of the Secretary General which is also published in the Comptes Rendus of IUGG2019. The presentation he gave can be downloaded [here](#).

The Bureau met five times during the term (2015-2019): in Prague, Czech Republic (June 2015) in Paris, France (June 2016), in Montreal, Canada (September 2017), in Mexico City, Mexico (October 2018), and in Montreal, Canada (July 2019). The Executive Committee met four times during the term (2015-2019): in Prague, Czech Republic, (June 2015), in Paris, France (June 2016), and in Montreal, Canada (September 2017 and July 2019).

Michael Sideris noted that the decision on lowering the price of one unit for least developed countries to USD 500 should be made later under agenda item 5. All other major decisions by the Bureau and Executive Committee were ratified unanimously in one vote by hand.

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

Alik Ismail-Zadeh noted that admissions of new members to IUGG and transfers to other membership categories 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](#) (page 96). The presentation he gave can be downloaded [here](#).

Admission of the following members was ratified:

- Algeria as Regular Member (Cat. 1)
- Serbia as Associate Member
- Uruguay as Associate Member

Transfer of Membership of the following members was ratified:

- North Macedonia from Regular Member (Cat. 1) to Associate

There was one vote for all matters of membership. A vote by ballot was conducted. Of the 30 valid votes, there were 29 consents and one abstention

In addition, the Council was asked to approve a proposal (developed by the Finance Committee, supported by the Bureau, and endorsed by the Executive Committee of IUGG) of IUGG Membership for Least Developed Countries which says “*Least Developed Countries (as defined by the United Nations) can become IUGG Regular Members in Category 1 paying annual contributions at the level of 25% of the Category 1 membership dues.*”

Eduard Petrovsky, Council Delegate of the Czech Republic asked how this new membership category will be communicated to the Least Developed Countries. Alik Ismail-Zadeh noted that relevant people in Least Developed Countries should be approached through the Associations.

Marino Protti, Council Delegate of Costa Rica mentioned exploring the idea of developing a donations program where developed countries can pay the membership dues for developing countries. Alik Ismail-Zadeh noted that the Royal Society (RS) provided funding for IUGG membership to some African countries. Unfortunately, the experiment was not sustainable, and the participating countries did not pay their dues after the RS funding period was over. Alik Ismail-Zadeh noted that he would prefer having a bottom-up approach, where the interest for an IUGG membership comes from the science community of the country.

Kathryn Whaler noted that Ethiopia would be one of the first countries to be approached knowing that there is interest for an IUGG membership.

Colin Price, Council Delegate of Israel, proposed, seconded by Marino Protti, Council Delegate of Costa Rica, to approve the proposal for four years (with a possibility for extension of this experiment for further four years) without changes of the current IUGG Statutes and By-Laws. A vote by hand was conducted. The proposal for membership of Least Developed Countries was approved with two abstentions.

### **6. Report of the Nominating Committee**

Tom Beer, Chair of the Nominating Committee, gave the report of the Nominating Committee as detailed in his report in the [Council Meeting Agenda Book](#) (page 97). The presentation he gave can be downloaded [here](#).

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: Kathryn Whaler (UK)  
President-Elect: Chris Rizos (Australia)

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Secretary General: Aksel Hansen (Denmark)  
Alexander Rudloff (Germany)  
Treasurer: Niels Andersen (Denmark)  
Bureau Members (Position #1, Europe):  
Eduard Petrovsky (Czech Republic)  
Harald Schuh (Germany)  
Bureau Members (Position #2, Asia):  
Virendra Tiwari (India)  
Jun Xia (China)  
Bureau Members (Positions #3, America):  
Gordon Young (Canada)  
Stephen McNutt (USA)

IUGG Finance Committee

Position #1: Corina Risso (Argentina)  
Position #2: Jozsef Adam (Hungary)  
Position #3: Priscilla Grew (USA)

Matt King, Council Delegate of Australia, noted that possibilities to increase the number of female candidates should be explored in future.

Michael Sideris invited the Council Delegates to nominate more candidates for the IUGG Bureau and Finance Committee in the next 48 hours.

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

**7. Report on the proposals to host the XXVIII General Assembly in 2023**

Eduard Petrovsky, Chair of the Site Comparison Committee, gave the report of the Site Comparison Committee as detailed in his report in the [Council Meeting Agenda Book](#) (pages 98-106). The presentation he gave can be downloaded [here](#).

IUGG received five bids to host the XXVIII General Assembly in 2023 to be decided on:

- Athens, Greece
- Berlin, Germany
- Geneva, Switzerland
- Guadalajara, Mexico
- Izmir, Turkey (withdrawn on 28 May 2019)

In his report, the proposals were shortly introduced and compared against the criteria published in the Guidelines for IUGG General Assemblies (<http://www.iugg.org/assemblies/>). There was no need for personal site visits.

Eduard Petrovsky noted that all bids fulfil the criteria. He does not know the reasons why Turkey withdrew its bid.

Eduard Petrovsky explained that the remaining four bids will be presented on 12 July, at 3 PM. All Council Delegates are kindly invited to attend and to ask questions. The Site Comparison Committee will then shortlist two bids. Votes on the two shortlisted

bids will be taken after the final presentations in the third session of the Council Meeting.

Constantin Sava, Council Delegate of Romania, proposed to shortlist all four bids instead since they all fulfil the criteria.

Harsh Gupta, Council Delegate of India, supported the proposal coming from Romania.

Jürgen Müller, Council Delegate of Germany, criticized that the rules and procedures were well known to the bidders and should not be changed last minute.

Alik Ismail-Zadeh confirmed that the rules and procedures (made by the Bureau) were well known to the bidders and Council Delegates for a long time. No complaints were received.

Harsh Gupta, Council Delegate of India, proposed, seconded by Constantin Sava, Council Delegate of Romania, that in view of four very good bids the Council listens to all four and chooses one. A vote by hand was conducted. The proposal was rejected with 8 in favor, 14 against, and 8 abstentions.

Therefore, the procedure of selection will be as planned and described by Eduard Petrovsky.

**8. Report of the Statutes and By-Laws (SBL) Committee on reformatting the IUGG SBL**

Charles Fierz, Chair of the SBL Committee, gave the report of the SBL Committee on reformatting the IUGG SBL as detailed in his report in the [Council Meeting Agenda Book](#) (page 107). The presentation he gave can be downloaded [here](#).

He summarized that in 2017, the Bureau decided to reformat the IUGG SBL to make reading and understanding of the basic documents easier. The SBL Committee has not yet finished its work and therefore the reformatted version was not presented to the Council Delegates for their consideration. New developments will be reported to the Council later.

**9. Report on scientific and educational programs**

International Lithosphere Program (ILP)

Alexander Rudloff, Executive Secretary of ILP, summarized the report on the activities of ILP as detailed in his report in the [Council Meeting Agenda Book](#) (pages 108-120). Note: the quadrennial report of ILP is also published in the Comptes Rendus of IUGG2019. The presentation he gave can be downloaded [here](#).

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

IUGG had appointed Harsh Gupta (India) as its representative to ILP Bureau for the term 2015-

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2019. Alan Green (Switzerland) was appointed as 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, ILP awards are given to excellent early- and mid-career scientists being active within the ILP Task Forces.

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

Alik Ismail-Zadeh summarized the report on the activities of the cooperation with the Abdus Salam International Centre for Theoretical Physics (ICTP) as detailed in his report in the [Council Meeting Agenda Book](#) (pages 121-123). The presentation he gave can be downloaded [here](#).

In 2011, ICTP and IUGG signed a memorandum of understanding (MoU) to promote educational programs related to geodesy and geophysics in the period 2012-2015. In 2015 the new MoU was signed for the period of 2016-2019. In the 2016-2019 period, IUGG co-sponsored 24 educational events organized by ICTP with a total of USD 60,000.

Council approved unanimously the extension of the Science Education Program in cooperation with ICTP for 2020-2023. A new memorandum of understanding should be signed in September 2019.

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

## MINUTES OF THE SECOND SESSION

FRIDAY, 12 JULY 2019 (09:00 – 13:00), ROOM 524AB, MONTREAL CONVENTION CENTRE

### PARTICIPANTS

#### NATIONAL DELEGATES

Austria	Johannes Böhm
Belgium	Philippe Huybrechts (alternate)
Canada	Gordon Young
Chile	Eduard Cayul Aristondo
China	Jianping Li
China-Taipei	Bor-Shouh Huang
Costa Rica	Marino Protti Quesada
Croatia	Mirko Orlic
Czech Republic	Eduard Petrovsky
Denmark	Søren Gregersen
Egypt	Nasser M. Abou Ashour
Finland	Jyri Näränen
France	Claude Boucher
Germany	Jürgen Müller
Greece	Ioannis Daglis (alternate)
Hungary	Jozsef Adam
Iceland	Kristin Vogfjörd
India	Harsh Gupta
Ireland	Sergei Lebedev
Israel	Colin Price
Italy	Fausto Guzzetti
Japan	Setsuya Nakada
Mexico	Miguel Angel Santoya
New Zealand	David Rhoades
Norway	Liss Andreassen
Poland	Jan Krynski
Romania	Constantin Sava
Russia	Anatoly Soloviev
Slovakia	Peter Vajda
Slovenia	Polona Vreca
Spain	Marcelino Valdez Perez de Vargas
Sweden	Per Holmlund
Switzerland	Elmar Brockmann
Turkey	Murat Dagdeviren (alternate)
United Kingdom	Joanna Haigh
United States of America	Steven McNutt

#### LISTENERS

Argentina	Corina Risso
Brazil	Roberto Teixeira Luz
Iran	Mohammed Kazem Hafizi
Nigeria	Shakirudeen Odunuga

#### MEMBERS OF THE EXECUTIVE COMMITTEE

President	Michael Sideris
Vice-President	Kathy Whaler
Secretary General	Alik Ismail-Zadeh
Treasurer	Aksel Hansen
Bureau Member	Pierre Hubert
Bureau Member	Chris Rizos

President IACS	Regine Hock
President IAG	Harald Schuh
President IAMAS	John Turner
President IAPSO	Denise Smythe-Wright
President IASPEI	Thorne Lay
President IAVCEI	Donald Dingwell

#### GUESTS OF THE PRESIDENT ATTENDING THE FIRST SESSION OF THE COUNCIL

IAHS Secretary General	Christophe Cudennec
Chair of Nominating Committee	Tom Beer
IUGG Executive Secretary (Minute Taker)	Franz Kuglitsch
IUGG Secretariat	Katrin Gundrum
Ass. Director of BISO, U.S. Nat. Acad. of Sciences	Ester Sztejn
ICTP	Abdelkrim Aoudia
Executive Secretary, SCL/ILP	Alexander Rudloff
University of Nebraska DTU Space, Denmark	Priscilla Grew Niels Andersen
Secretary, National Committee, Russia	Roman Krasnoperov
GeoEcoMar, Romania	Anghel Sorin

#### 10. Greetings; Presentation of the credentials

The Second Session of the Council Meeting was called to order at 09:00 with a roll call of delegates.

Delegates from 40 member countries were present, 36 eligible to vote. The total number of countries eligible to vote was 48 (72 minus 10 in observer status minus 14 in associate status). The quorum (16) was reached.

Alik Ismail-Zadeh announced that a group photo will be taken at 10:45.

Harsh Gupta, Council Delegate of India, announced that the IAGA-IASPEI Joint Assembly 2021 will be organized in Hyderabad, India. Information material is available for all Council Delegates at the entrance of the room 524AB.

#### 11. Reports by Association Presidents

Council Delegates were asked to note the reports of the Associations available in the [Council Meeting Agenda Book](#) (pages 124-168). Note: the quadrennial reports of the IUGG Associations are also published in the Comptes Rendus of IUGG2019.

The IUGG Associations Presidents and the IAHS Secretary General reported on the activities of the Associations from 2015-2019.

### IACS

Regine Hock gave a presentation on the activities of IACS, which can be downloaded [here](#). She highlighted (i) the revisions made to the IACS Statutes and By-Laws, (ii) the new IACS website, (iii) the IACS individual membership program, (iv) sponsored events, (v) IACS awardees, (vi) the IACS administration and structure, (vii) the involvement of IACS Bureau Members in IPCC activities, and (viii) planned activities for 2019-2023. She suggested reducing the length of IUGG General Assemblies to 5 days.

### IAG

Harald Schuh gave a presentation on the activities of IAG, which can be downloaded [here](#). He highlighted (i) the IAG administration and structure, (ii) the IAG Strategic Plan and its implementation, (iii) new Inter-Association Activities, (iv) new Inter-Commission Committees, (v) new IAG projects, products and services, (vi) the new structure of the Global Geodetic Observing System (GGOS), (vii) the launch of the Gravity Recovery and Climate Experiment Follow-On (GRACE-FO) satellite mission, (viii) the adoption of the United Nations (UN) resolution on Global Geodetic Reference Frame (GGRF), (ix) the newly established UN-GGIM Subcommittee on Geodesy, (x) the planned development of a Global Geodetic Center of Excellence under the umbrella of the UN, and (xi) IAG publications.

### IAGA

Eduard Petrovsky gave a presentation on the activities of IAGA, which can be downloaded [here](#). He highlighted (i) the IAGA administration and structure, (ii) the IAGA-IAMAS-IAPSO Joint Assembly held in Cape Town, South Africa, in 2017, (iii) IAGA awardees, (iv) IAGA schools and sponsored meetings, and (v) IAGA publications.

### IAHS

Christophe Cudennec gave a presentation on the activities of IAHS, which can be downloaded [here](#). He highlighted (i) the IAHS Community, (ii) IAHS supported events between 2015 and 2019 incl. the IAHS Scientific Assembly 2017, which was organized in Port Elizabeth, South Africa, (iii) IAHS Publications, (iv) the IAHS Office, (v) the involvement of Early-Career Scientists in IAHS activities, (vi) the IAHS scientific decade Panta Rhei, (vii) the 23 unsolved problems in hydrology, and (viii) ongoing preparations for the IAHS Scientific Assembly 2021 to be organized in Montpellier, France.

### IAMAS

John Turner gave a presentation on the activities of IAMAS, which can be downloaded [here](#). He

highlighted (i) the IAMAS administration and structure, (ii) past and future IAMAS events incl. the IAGA-IAMAS-IAPSO Joint Assembly held in Cape Town, South Africa, in 2017, and the IACS-IAMAS-IAPSO Joint Assembly to be held in Busan, Republic of Korea, in 2021, (iii) the IAMAS Strategic Plan (2019-2027), (iv) IAMAS on social media, (v) IAMAS awardees, (vi) the involvement of early-career scientists in IAMAS, and (vii) IAMAS publications.

### IAPSO

Denise Smythe-Wright gave a presentation on the activities of IAPSO, which can be downloaded [here](#). She highlighted (i) the IAPSO administration and structure, (ii) the IAGA-IAMAS-IAPSO Joint Assembly held in Cape Town, South Africa, in 2017, (iii) the IACS-IAMAS-IAPSO Joint Assembly to be held in Busan, Republic of Korea, in 2021, (iv) IAPSO awardees, (v) the involvement of Early Career Scientists in IAPSO, and (vi) IAPSO publications incl. the G7 report “Future of Oceans and its Seas”.

### IASPEI

Thorne Lay gave a presentation on the activities of IASPEI, which can be downloaded [here](#). He highlighted (i) the IASPEI Regional Assemblies held in 2016 and 2018, (ii) the IAG-IASPEI Joint Assembly held in Kobe, Japan, in 2017, (iv) the IASPEI administration, budget, and structure, (v) IASPEI awardees, (vi) IASPEI publications, and (viii) planned activities for 2019-2023 incl. the IAGA-IASPEI Joint Assembly to be held in Hyderabad, India, in 2021.

### IAVCEI

Donald Dingwell gave a presentation on the activities of IAVCEI, which can be downloaded [here](#). He highlighted (i) the IAVCEI administration, budget, and structure, (ii) IAVCEI publications, (iii) Inter-Association activities, (iv) the Cities on Volcanoes Meetings held in Puerto Varas, Chile (2016) and Naples, Italy (2018), (v) the IAVCEI Assembly held in Portland OR, USA, in 2017, and (vi) planned activities for 2019-2023 incl. the IAVCEI Assembly to be held in Rotorua, New Zealand, in 2021.

## **12. Relations with ISC**

Alik Ismail-Zadeh summarized the IUGG relations with the International Science Council (ISC) as detailed in his report in the [Council Meeting Agenda Book](#) (pages 169-182). The presentation he gave can be downloaded [here](#).

Alik Ismail-Zadeh highlighted (i) the history of international research collaboration, (ii) the recent merger of the International Council for Science (ICSU) with the International Social Science

Council (ISSC), (iii) the founding Assembly of the ISC in 2018, (iv) the goals and structure of ISC, and (v) IUGG's cooperation with ISC GeoUnions and ILP.

Johanna Haigh, Council Delegates of the UK, asked to make all the presentations of the Council Meeting available to the Delegates. Michael Sideris and Alik Ismail-Zadeh agreed after having received the permission of all presenters. Alik Ismail-Zadeh further noted that important numbers and statistics on the assembly will be published in the Comptes Rendus of IUGG2019 by the end of 2019.

### 13. Reports from liaisons to ISC Committees

Alik Ismail-Zadeh introduced the Partner Organizations of IUGG and summarized the responsibilities of IUGG Liaison Officers.

In order to save time, Alik Ismail-Zadeh referred the Council Delegates to the reports received from the IUGG Liaison Officers to ISC Committees as detailed in the [Council Meeting Agenda Book](#) (pages 183-196). The presentation he gave can be downloaded [here](#).

He briefly reviewed each of the organizations incl.

- Committee on Data for Science and Technology (CODATA),
- Committee on Space Research (COSPAR),
- Scientific Committee on Antarctic Research (SCAR),
- Scientific Committee on Oceanic Research (SCOR),
- Scientific Committee on Solar-Terrestrial Physics (SCOSTEP),
- World Data System (WDS),
- Regional Office for Africa (ROA),
- Regional Office for Asia and the Pacific (ROAP), and
- Regional Office for Latin American and the Caribbean (ROLAC).

Alik Ismail-Zadeh noted that no report was received from WDS, ROA, ROAP, and ROLAC. As the regional strategy of ISC is yet to be developed, he recommended to not appoint Liaison Officers to ROA, ROAP and ROLAC for 2019-2023 at this stage, but perhaps in the future.

### 14. Reports from liaisons to intergovernmental and other organizations

Alik Ismail-Zadeh continued to briefly review the reports received from the IUGG Liaison Officers to intergovernmental and other organizations as detailed in the [Council Meeting Agenda Book](#) (pages 197-224). The presentation he gave can be downloaded [here](#).

The following organizations were reviewed:

- Consultative Committee for Time and Frequency (CCTF),
- Group on Earth Observations (GEO),
- UNESCO International Hydrological Programme (IHP),
- UNESCO Intergovernmental Oceanographic Commission (IOC),
- Pan-American Institute of Geography and History (PAIGH),
- The United Nations Geospatial Information Section (UN-GIS),
- International Civil Aviation Organization (ICAO),
- World Climate Research Programme (WCRP),
- World Meteorological Organization (WMO),
- International Civil Aviation Organization (ICAO), and
- ISC-UNDRR Scientific Committee on Integrated Research on Disaster Risk (IRDR).

Alik Ismail-Zadeh mentioned that Hermann Drewes, IUGG Liaison Officer to UN-GIS, suggested in his report to discontinue the IUGG Liaison to UN-GGIS, and instead develop an IUGG Liaison to the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM).

Alik Ismail-Zadeh noted that no report was received from ICAO and IRDR as the Liaison Officers to these bodies have never been contacted. He mentioned that he will meet high-level representatives of ICAO to discuss the future Liaison to IUGG. IRDR is in a restructuring process. Therefore, no any Liaison Officer should be appointed IRDR for 2019-2023 at this stage.

Anatoly Soloviev, Council Delegate of Russia, suggested establishing an IUGG Liaison to the International Arctic Science Committee (IASC). Alik Ismail-Zadeh noted that IASC signed a Memorandum of Understanding with IASC to collaborate. Michael Sideris asked to clarify the issue with IACS and with IASC if they accept Liaison Officers at all.

Tom Beer, IUGG President (2007-2011), noted that the establishment of an IUGG Liaison to Future Earth could be explored. Alik Ismail-Zadeh noted that Future Earth is quite detached from the ISC membership and clarified that they do not accept any Liaison Officers.

Claude Boucher, Council Delegate of France, noted that the establishment of an IUGG Liaison to the International Hydrographic Organization (IHO) could be explored. Christophe Cudennec noted that there is no link between IAHS and IHO which is an international governmental organization.

Marino Protti, Council Delegate of Costa Rica, noted that the establishment of an IUGG Liaison to the International Network for Government Science Advice (INGSA) could be explored. Alik Ismail-Zadeh noted that INGSA is part of ISC and does not accept Liaison Officers at this stage.



Alik Ismail-Zadeh noted that in the past IUGG had a good liaison to the International Telecommunication Union (ITU) which suddenly stopped. Reestablishing a link to ITU could be considered in future.

The reports of the IUGG Liaison Officers to ISC Committees, intergovernmental and other organizations were adopted unanimously.

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

Jan Krynski summarized the major activities of Finance Committee as detailed in his report in the [Council Meeting Agenda Book](#) (pages 225-227). Note: the quadrennial report of the Chair of the Finance Committee is also published in the Comptes Rendus of IUGG2019. The presentation he gave can be downloaded [here](#).

He highlighted (i) administration and structure of the Finance Committee, (ii) the role of the Finance Committee, (iii) membership issues, (iv) other issues incl. financial reporting of the Associations, the IUGG Grant Program, the accounting process, and IUGGs allocations to its Commissions, (v) the IUGG Budget 2020-2023, and (vi) the cooperation with the Treasurer.

Gordon Young, IUGG Council Delegate of Canada, suggested exploring a more aggressive marketing to approach the countries and possibly to engage a company to do so.

Jan Krynski mentioned that there should be a list of good arguments and benefits to become an IUGG member country.

Michael Sideris noted that leaflets and brochures will not be enough to get more member countries. Instead, IUGG can only raise its profile by being present in the media which would cost too much money and efforts considering our small budget.

Harsh Gupta, IUGG Council Delegate of India, asked to whom we would market ourselves since most affluent countries are already member of IUGG. Instead, our current member countries should be approached and informed about new developments, to keep them members in future. He noted that commercial marketing is probably not in the interest of IUGG.

Michael Sideris asked the Council Delegates to promote IUGG in their member countries.

Shakirudeen Odunuga, Council Delegates of Nigeria, suggested inviting more government representatives, who are usually not familiar with IUGG, to attend General Assemblies to provide more information about how IUGG works and to organize some special event (e.g. session, panel discussion etc.) for them. Michael Sideris noted that IUGG is a non-governmental organization but it might be worth trying in future.

Alik Ismail-Zadeh explained that there are two reasons why member countries are in observer status, (i) financial reasons, and (ii) political reason. The latter is the case for Iran which is willing but not able to pay IUGG membership dues due to international sanctions. Therefore, IUGG would like to keep Iran as a regular member country in observer status and not transfer it to Associate status.

#### **16. Presentation of the 2020-2023 Budget**

Aksel Hansen discussed the draft IUGG Budget 2020-2023 as detailed in the [Council Meeting Agenda Book](#) (page 228). The presentation he gave can be downloaded [here](#). As recommended by the Finance Committee, the balance of the IUGG Budget was set to approximately one year's turnover.

He went through the budget line by line and highlighted the significant changes. He noted that the interest IUGG has received is close to zero and that there are no plan to make any kind of capital investments in future.

Alik Ismail-Zadeh noted that the last version of the IUGG Budget 2020-2023 will be circulated by Franz Kuglitsch on 13 July 2019.

A final vote to adopt the 2020-2023 Budget takes place in the Third Session of the Council Meeting.

The Second Session of the Council Meeting closed at 13:00.

**MINUTES OF THE THIRD SESSION**

**TUESDAY, 16 JULY 2019 (14:00 – 18:00), ROOM 524AB, MONTREAL CONVENTION CENTRE**

**PARTICIPANTS**

**NATIONAL DELEGATES**

Australia	Matt King
Austria	Johannes Böhm
Belgium	Karen Fontyn (alternate)
Canada	Gordon Young
China	Dunxian She (alternate) Jun Xia (alternate)
China-Taipei	Bor-Shouh Huang
Costa Rica	Marino Protti Quesada
Croatia	Mirko Orlic
Czech Republic	Eduard Petrovsky
Denmark	Søren Gregersen
Egypt	Nasser M. Abou Ashour
Finland	Jyri Näränen
France	Claude Boucher
Germany	Jürgen Müller
Greece	Ioannis Daglis (alternate)
Hungary	Jozsef Adam
Iceland	Kristin Vogtjörd
India	Harsh Gupta
Ireland	Sergei Lebedev
Israel	Colin Price
Italy	Fausto Guzzetti
Japan	Setsuya Nakada
Korea, Rep.	Sang-Mook Lee
Mexico	Miguel Angel Santoya
New Zealand	David Rhoades
Poland	Jan Krynski
Romania	Constantin Sava
Russia	Anatoly Soloviev
Slovakia	Peter Vajda
Slovenia	Polona Vreca
Sweden	Jonas Agren
Switzerland	Elmar Brockmann
Turkey	Murat Dagdeviren (alternate)
United Kingdom	Joanna Haigh
United States of America	Steven McNutt

**LISTENERS**

Argentina	Corina Risso
Brazil	Roberto Teixeira Luz
Nigeria	Shakirudeen Odunuga

**MEMBERS OF THE EXECUTIVE COMMITTEE**

President	Michael Sideris
Vice-President	Kathy Whaler
Secretary General	Alik Ismail-Zadeh
Treasurer	Aksel Hansen
Bureau Member	Pierre Hubert
Bureau Member	Chris Rizos
President IACS	Regine Hock
President IAG	Harald Schuh

**GUESTS OF THE PRESIDENT ATTENDING THE FIRST SESSION OF THE COUNCIL**

IAG Secretary General	Hermann Drewes
IAHS Secretary General	Christophe Cudennec
IAPSO Secretary General	Stefania Sparnocchia
IASPEI Secretary General	Johannes Schweitzer
Chair of Statutes and By-Laws Committee	Charles Fierz
Chair of Nominating Committee	Tom Beer
IUGG Executive Secretary (Minute Taker)	Franz Kuglitsch
IUGG Secretariat	Katrin Gundrum
Ass. Director of BISO, U.S. Nat. Acad. of Sciences	Ester Szein
Executive Secretary, SCL/ILP	Alexander Rudloff
University of Nebraska DTU Space, Denmark	Priscilla Grew Niels Andersen
Secretary, National Committee, Russia	Roman Krasnoperov
GeoEcoMar, Romania	Anghel Sorin
IAMAS National Correspondent, Germany	Hans Volkert
GFZ, Germany	Ludwig Stroink
GFZ, Germany	Christine Bismuth

**17. Greetings; Presentation of the credentials**

The Third Session of the Council Meeting was called to order at 14:00 with a roll call of delegates. Delegates from 38 member countries were present, 35 eligible to vote. The quorum (16) was reached. Delegates from Chile, Colombia, and Norway had deposited their votes with the IUGG President for matters to be taken up at the Third Session. Altogether, 38 votes were cast.

**18. Adoption of the 2020-2023 Budget**

The Council was asked to vote on the 2020-2023 Budget as distributed by Franz Kuglitsch on 13 July 2019. Aksel Hansen summarized the major numbers. The presentation he gave can be downloaded [here](#).

Jyri Näränen, Council Delegate of Finland, seconded by Gordon Young, Council Delegate of Canada, to approve the proposed 2020-2023 Budget.

The ballots to vote on the 2020-2023 Budget were distributed among the Council Delegates. The votes on financial matters were weighted by the countries categories of membership. 38 votes representing 142 units were received. The results are given below.

In favor: 142      Against: 0      Abstain: 0

The 2020-2023 Budget was adopted unanimously.

### 19. Election of IUGG Officers

Alik Ismail-Zadeh explained the procedures for the election of the members of the IUGG Bureau and Finance Committee for the term 2020-2023. The ballots to vote were distributed among the Council Delegates. This vote requires a simple majority of all ballots cast.

The candidates for President, President-Elect, Secretary General, and Treasurer presented their position statements. No further comments or questions were asked by the Council. The Council Delegates were asked to vote.

The candidates for Bureau Members presented their position statements. No further comments or questions were asked by the Council.

The results of the votes for President, President-Elect, Secretary General, and Treasurer were presented. For the position of President, Kathryn Whaler was elected. For the position of President-Elect, Chris Rizos was elected. For the position of Secretary General, Alexander Rudloff was elected. For the position of Treasurer, Niels Andersen was elected.

Then, the Council Delegates were asked to vote on the Bureau Members.

The candidates for Finance Committee Members presented their position statements. No further comments or questions were asked by the Council. The Council Delegates were asked to vote.

The results of the votes for the three Bureau and the three Finance Committee Members were presented. The Bureau Members elected were Stephen McNutt, Eduard Petrovsky, and Jun Xia. The Finance Committee Members elected were Jozsef Adam, Priscilla Grew, and Corina Risso. The actual vote tallies are given in the following:

Candidate	For	Against	Abstain
Kathryn Whaler for President	35	0	3
Chris Rizos for President-Elect	37	0	1
Alexander Rudloff for Secretary General	23		
Aksel Hansen for Secretary General	15		
Niels Andersen for Treasurer	37	0	1
Eduard Petrovsky for Bureau Member	22		
Harald Schuh for Bureau Member	15		
Virendra Tiwari for Bureau Member	14		
Jun Xia for Bureau Member	24		

Stephen McNutt for Bureau Member	27		
Gordon Young for Bureau Member	11		
Jozsef Adam for Finance Committee Member	33	0	4
Priscilla Grew for Finance Committee Member	35	0	2
Corina Risso for Finance Committee Member	32	1	4

### 20. Presentations of the proposals to host the XXVIII General Assembly. Selection of the venue of the XXVIII General Assembly (2023)

The Bureau received four bids to host the XXVIII IUGG General Assembly incl. Athens (Greece), Berlin (Germany), Geneva (Switzerland), and Guadalajara (Mexico).

After the hearing on 12 July 2019, Athens (Greece) and Berlin (Germany) were shortlisted by the Site Comparison Committee. Michael Sideris invited the presenters of both bids to give a presentation of not more than 20 minutes to the Council Delegates.

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

2023 GA venue	Votes
Athens, Greece	15
Berlin, Germany	23

The XXVIII IUGG General Assembly will take place in Berlin, Germany.

### 21. Renewal of the IUGG liaison officers for 2019-2023

Alik Ismail-Zadeh presented the following table of proposed IUGG Liaison Officers to the Council Delegates. Principal Liaisons are marked in **bold**. The presentation he gave can be downloaded [here](#).

Organization	Liaisons 2019-2023
ISC Committee on Data for Science and Technology (CODATA)	Alena Rybkina (RUSSIA)
ISC Committee on Space Research (COSPAR)	<b>Andrew W. Yau (CANADA)</b> Christopher Kotsakis (GREECE)
ISC Scientific Committee on Antarctic Research (SCAR)	<b>Ian Allison (AUSTRALIA)</b> John Turner (UK)
ISC Scientific Committee on	Trevor McDougall (AUSTRALIA) Joyce Penner (USA)

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Oceanic Research (SCOR)	
ISC Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)	<b>Renata Lukianova (RUSSIA)</b> Peter Pilewskie (USA)
ISC World Data System (WDS)	<b>Toshihiko Iyemori (JAPAN)</b> Aude Chambodut (FRANCE) Carey Noll (USA)
UNESCO Section on Earth Sciences and Geo-Hazards Risk Reduction	<b>Alik Ismail-Zadeh (GERMANY/RUSSIA)</b> Harsh Gupta (INDIA)
UNESCO International Hydrological Program (UNESCO-IHP)	<b>Christophe Cudennec (FRANCE)</b> Charles Fierz (SWITZERLAND)
UNESCO Intergovernmental Oceanographic Commission (UNESCO-IOC)	<b>Denise Smythe-Wright (UK)</b> Satheesh Shenoi (INDIA)
World Meteorological Organization (WMO)	<b>Roger Pulwarty (USA)</b> Christophe Cudennec (FRANCE) Charles Fierz (SWITZERLAND) Arnau Folch (SPAIN) Jens Wickert (GERMANY) Hua Zhang (CHINA)
United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)	Harald Schuh (GERMANY)
International Civil Aviation Organization (ICAO)	<b>David Schneider (USA)</b> Larry Mastin (USA)
Intergovernmental Panel on Climate Change (IPCC)	Franz Kuglitsch (GERMANY/AUSTRIA)
World Climate Research Programme (WCRP)	Lisa Alexander (AUSTRALIA)
Consultative Committee for Time and Frequency (CCTF)	<b>Claude Boucher (FRANCE)</b> Gerard Petit (FRANCE)
Pan American Institute of Geography and History (PAIGH)	Laura Sanchez (GERMANY/COLOMBIA)

Group on Earth Observations (GEO)	<b>Michael Sideris (CANADA)</b> Chris Rizos (AUSTRALIA) Kathryn Whaler (UK)
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Michael Sideris then asked the Council Delegates to approve the appointments.

Jyri Näränen, Council Delegate of Finland, proposed, seconded by Eduard Petrovsky, Council Delegate of the Czech Republic, to accept the proposed IUGG Liaison Officers for 2019-2023.

Alik Ismail-Zadeh clarified the differences between CODATA and WDS and mentioned that these two bodies may wish to merge in the future.

A vote by hand was conducted. The proposal was accepted unanimously.

## 22. Presentation and adoption of the Resolutions

Harsh Gupta, Chair of the Resolutions Committee, reported that the 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 Executive Committee before being brought to the Council. Two resolutions plus one traditional resolution of thanks of IUGG to the organizers of IUGG2019 were put on screen, read and commented by Harsh Gupta. He welcomed questions and comments by the Council. [The final versions of the resolutions which were adopted can be downloaded [here](#). They are also published in the Comptes Rendus of IUGG2019.]

Resolution 1: Reducing the Carbon Foot Print by the Research Community.

Resolution 2: The International Terrestrial Reference Frame (ITRF).

Resolution 3: Thanks.

Michael Sideris then asked the Council Delegates to adopt the resolutions.

Jürgen Müller, Council Delegate of Germany, proposed, seconded by Jyri Näränen, Council Delegate of Finland, to accept the proposed resolutions.

Polona Vreca, Council Delegate of Slovenia, referring to Resolution 1, noted that she and many colleagues are suffering from the low temperatures in the convention center. Increasing the temperature by a few degrees would help reduce the carbon footprint.

Peter Vajda, Council Delegate of Slovakia, referring to Resolution 3, noted that it should be noted carefully why certain people did not receive a visa on time.

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Jürgen Müller, Council Delegate of Germany, referring to Resolution 3, noted that the visa issue should not be part of this resolution, and made a motion to remove it. Stephen McNutt, Council Delegate of the USA, seconded. A vote by hand was conducted. The modified resolution was accepted with 25 votes in favor, 4 votes against, and 3 abstentions.

Alik Ismail-Zadeh noted that it is a major concern of ISC that many scientists are not able to attend international meetings. He mentioned that only few weeks ago, ISC established a new Committee on Freedom and Responsibility in Science to consider such issues.

A vote by hand on all three resolutions was conducted. The resolutions (incl. the modified Resolution 3) were accepted unanimously.

Michael Sideris noted that after getting the final numbers on people who did not receive a visa on time, a fourth resolution can be prepared by the Executive Committee and adopted by the Standing Council.

**Closing remarks**

Michael Sideris thanked all Council Delegates, Committees and organizers of the General Assembly for their help and assistance to make the assembly such a success. He invited all participants to make their comments for the improvement of future General Assemblies known to IUGG.

Michael Sideris declared that the Council of Delegates to the XXVII General Assembly was adjourned at 18:00.

Respectfully submitted by Franz Kuglitsch

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## IUGG Budget 2019-2023, approved 16 July 2019, Montreal

Based on discussions at Bureau Meetings in Mexico City, 2018, and in Montreal, 2019

Approved by the Finance Committee and Executive Committee in Montreal, 2019

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

Year	2019	2020	2021	2022	2023	2020-2023	2016 - 2019
Estimated unit value	\$2.020	\$2.060	\$2.100	\$2.140	\$2.180	\$2.060-\$2.180	\$1.940-\$2.050
Estimated number of units	<b>260</b>	<b>260</b>	<b>260</b>	<b>260</b>	<b>260</b>	<b>1040</b>	<b>1080</b>
<b>INCOME</b>						Budget	Budget
		2020	2021	2022	2023	2020-2023	2016-2019
1. MEMBERSHIP DUES	525,2	535,6	546,0	556,4	566,8	2204,8	2157
2. ASSEMBLY SURCHARGE					20,0	20,0	20
3. ROYALTIES		0,2	0,2	0,2	0,2	0,8	1
4. MISCELLANEOUS (interest)		0,1	0,1	0,1	0,1	0,4	0
<b>5. TOTAL INCOME</b>		<b>535,9</b>	<b>546,3</b>	<b>556,7</b>	<b>587,1</b>	<b>2226,0</b>	<b>2178</b>
6. INCOMING BALANCE 2020		662,0	659,8	642,8	651,0	662,0	
<b>EXPENDITURES</b>						Budget	Budget
		2020	2021	2022	2023	2020-2023	2016-2019
11. ADMINISTRATION		99,0	119,0	99,0	125,0	442,0	440
11.1 Personnel		15,0	15,0	15,0	15,0	60,0	60
11.2 Equipment		1,0	1,0	1,0	1,0	4,0	4
11.3 Supplies		4,0	4,0	4,0	4,0	16,0	16
11.4 Communication		4,0	4,0	4,0	5,0	17,0	17
11.5 Travel		70,0	90,0	70,0	90,0	320,0	335
11.6 Miscellaneous		5,0	5,0	5,0	10,0	25,0	8
12. SCIENCE AND EDUCATION INITIATIVES		70,0	70,0	70,0	70,0	280,0	160
12.1 Education and outreach		30,0	30,0	30,0	30,0	120,0	80
12.2 Science		40,0	40,0	40,0	40,0	160,0	80
13. ASSEMBLIES		0,0	0,0	0,0	110,0	110,0	70
13.1 Organizational expenses		0,0	0,0	0,0	10,0	10,0	10
13.2 Travel Grants		0,0	0,0	0,0	100,0	100,0	60
14. SYMPOSIA		25,0	25,0	25,0	0,0	75,0	60
14.1 Symposia		25,0	25,0	25,0	0,0	75,0	60
15. ASSOCIATIONS		262,6	267,8	273,0	278,2	1081,6	1059
15.1 Allocations		262,6	267,8	273,0	278,2	1081,6	1059
16. DUES		32,0	32,0	32,0	32,0	128,0	120
16.1 ISC		32,0	32,0	32,0	32,0	128,0	120
17. UNION ACTIVITIES		39,0	39,0	39,0	39,0	156,0	164
17.1 Union commissions		24,0	24,0	24,0	24,0	96,0	104
17.2 Inter-Union Science		15,0	15,0	15,0	15,0	60,0	60
18. FEES		8,0	8,0	8,0	8,0	32,0	32
18.1 Professional Services		5,0	5,0	5,0	5,0	20,0	20
18.2 Bank Fees		3,0	3,0	3,0	3,0	12,0	12
19. CONTINGENCIES		2,5	2,5	2,5	2,5	10,0	10
<b>20. TOTAL EXPENDITURES</b>		<b>538,1</b>	<b>563,3</b>	<b>548,5</b>	<b>664,7</b>	<b>2314,6</b>	<b>2201</b>
21. OUTGOING BALANCE 2023		659,8	642,8	651,0	573,4	573,4	

NOTE 17.1 Union commissions      CMG, SEDI, CCEC, UCPS, GRC, UCDI  
17.2 Inter-Union Science          ILP