# CLOSING PLENARY IASPEI General Assembly 2019

Montréal, Canada

## Agenda

- President's Welcome
- 2. Roll Call
- 3. Secretary General's Report
- 4. Financial Statement and Discharge of Accounts
- 5. Union Activities
- 6. Commissions
- 7. Future Activities and Assemblies
- 8. Elections of IASPEI Officers for 2019 2023
- 9. Resolution
- 10. Final Words of the New President
- 11. Close of Plenary

## President's Welcome

# Roll Call

#### IASPEI National Correspondents / Delegates GA 2019

COUNTRY	National Correspondent	PROXY / DELEGATE	PRESENT
ALBANIA	Mr. Edmond <b>DUSHI</b>		
ALGERIA	Prof. Abdelkarim YELLES-CHAOUCHE		
ARGENTINA	Dra. Nora <b>SABBIONE</b>	Silvana <b>Spagnotto</b>	
ARMENIA	Dr. Avetis <b>ARAKELYAN</b>		
AUSTRALIA	Prof. Yingjie <b>YANG</b>		
AUSTRIA	Doz. Dr. Wolfgang <b>LENHARDT</b>		
AZERBAIJAN	Dr. Gurban <b>YETIRMISHLI</b>	Ibrahim <b>Guliyev</b> Gulam <b>Babyev</b>	
BELGIUM	Dr. Thierry <b>CAMELBEECK</b>	Fabienne <b>Collin</b>	
BOLIVIA	MSc Estela <b>MINAYA</b>	Gonzalo Fernadez	
<b>BOSNIA &amp; HERZEGOVINA</b>	Mr. Ivan <b>BRLEK</b>		
BRAZIL	Dr. Marcelo Sousa de <b>ASSUMPÇÃO</b>		
BULGARIA	Prof. D.Sc. Dimcho <b>SOLAKOV</b>		
CANADA	Dr. Fiona <b>DARBYSHIRE</b> Dr. Sheri <b>MOLNAR</b>		
CHILE	Dra. Diana <b>COMTE SELMAN</b>		
CHINA	Dr. Zhifeng <b>DING</b>		
CHINA-TAIPEI	Prof. Kuo-Fong <b>MA</b>		
COLOMBIA	Dr. Carlos Alberto VARGAS JIMENEZ		
CONGO, D.R.	Dr. D. Mifundu <b>WAFULA</b>		
COSTA RICA	Dr. Marino <b>PROTTI QUESADA</b>		
CROATIA	Mr. Ivo <b>ALLEGRETTI</b> Prof. Dr. Marijan <b>HERAK</b>		
CZECH REPUBLIC	Dr. Vaclav <b>VAVRYCUK</b>		

#### **IASPEI National Correspondents / Delegates GA 2019**

DENMARK	Dr. Peter <b>VOSS</b>	Dr. Søren <b>GREGERSEN</b>	<b>—</b>		
EGYPT	Mr. Abou El Ela Amin <b>MOHAMED</b>				
ESTONIA	Dr. Heidi <b>SOOSALU</b>				
FINLAND	Dr. Timo <b>TIIRA</b>				
FRANCE	Dr. Tony <b>MONFRET</b>				
GEORGIA	Dr. Nino <b>TSERETELI</b>				
GERMANY	Prof. Dr. Torsten <b>DAHM</b>	Prof. Dr. Torsten <b>DAHM</b>			
GREECE	Prof. Konstantinos MAKROPOULOS				
HUNGARY	Dr. István <b>BONDÁR</b>				
ICELAND	Dr. Ragnar <b>STEFANSSON</b>	Kristin <b>Vogfjörd</b>			
INDIA	Dr. Harsh K. <b>GUPTA</b>				
INDONESIA	Prof. Sri <b>WIDIYANTORO</b>				
IRAN	Prof. Dr. Noorbakhsh MIRZAEI				
IRELAND	Prof. Chris J. <b>BEAN</b>				
ISRAEL	Dr. Rami <b>HOFSTETTER</b>				
ITALY	Dr. Warner <b>MARZOCCHI</b> Dr. Andrea <b>ARGNANI</b>				
JAPAN	Prof. Kenji <b>SATAKE</b>				
KOREA	Prof. Tae-Seob <b>KANG</b>				
LUXEMBOURG	Dr. Adrien <b>OTH</b>	Tonie <b>van Dam</b> Julien <b>Barrière</b>	_		
MEXICO	Dr. Xyoli <b>PEREZ-CAMPOS</b>				
MOROCCO	Prof. Ben Aissa <b>TADILI</b>				
MOZAMBIQUE	Eng. Severino MARCOS				
	Eng. Viriato <b>SAMBOCO</b>				

#### **IASPEI National Correspondents / Delegates GA 2019**

NETHERLANDS	Dr. Bernard <b>DOST</b>			
NEW ZEALAND	Dr. David RHOADES			
NICARAGUA	Dr. Edwin A. OBANDO			
NORTH MACEDONIA	Prof. Dr. Mihail <b>GAREVSKI</b>			
NORWAY	Dr. Tormod KVÆRNA	Prof. Lars <b>Ottemöller</b>		
PERU	Dr. Leonidas C. <b>OCOLA</b>			
POLAND	Prof. Zbigniew CZECHOWSKI		•	
	Prof. Beata ORLECKA-SIKORA			
PORTUGAL	Prof. Luis Manuel M. <b>MATIAS</b>			
ROMANIA	Dr. Mircea <b>RADULIAN</b>	Luminita <b>Ardeleanu</b>		
RUSSIA	Dr. Alexander O. <b>GLIKO</b>	Dr. Anna <b>SKORKINA</b>		
SAUDI ARABIA	Dr. Khaled <b>ALDAMEGH</b>		•	
SERBIA	Dr. Ana Milanovic <b>Pesic</b>			
SLOVAK REPUBLIC	Prof. Peter <b>MOCZO</b>			
SLOVENIA	Dr. Martina <b>CARMAN</b>			
SOUTH AFRICA	Prof. Raymond <b>DURRHEIM</b>			
SPAIN	Dr. Jose MARTIN DAVILA			
SWEDEN	Prof. Roland ROBERTS			
SWITZERLAND	Dr. John F. <b>CLINTON</b>	Dr. Florian Haslinger		
THAILAND	Ms. Kornrawee SITTHICHIVAPAK			
TURKEY	Mr. Murat <b>NURLU</b>			
UK	Dr. James <b>HAMMOND</b>	Dr. Dmitry STORCHAK		
URUGUAY	Dr. Leda <b>SÁNCHEZ</b>			
USA	Prof. Aaron <b>Velasco</b>			
VIETNAM	Dr. Dang Thanh <b>HAI</b>			

## Secretary General's Report 2018 – 2019

Bureau meetings:

2018 via SKYPE 2019 Montréal

Executive Committee meetings:
 2019 Montréal

### **Business Meetings During this Assembly**

#### Thursday

**Bureau and Executive Committee meetings** 

#### Friday

**Opening Plenary** 

#### Tuesday

Scientific Program Committee for Hyderabad 2021 (Executive meeting, Commission chairs, etc.)

#### Wednesday

Joint meeting of IAGA – IASPEI & LOC for Hyderabad 2021

Closing plenary

IASPEI Commissions and IASPEI sponsored bodies have also conducted business meetings during the Assembly

## Regional Assemblies in 2018

2<sup>nd</sup> General Assembly of the African Seismological Commission (AfSC)

The 2<sup>nd</sup> AfSC GA was held in Al Hoceima, Morocco, 23 – 25 April 2018. The assembly had about **150** participants and was followed by three training courses on "Seismotectonics", "Analysis of Seismic Signals" and "Usage of Radar Images" (26 – 27 April 2018).

12th General Assembly of the Asian Seismological Commission (ASC)

The 12<sup>th</sup> ASC GA with **129** ASC participants was held in Chengdu, China, 12 – 14 May 2018, jointly organized with the International Conference for the Decade Memory of the Wenchuan Earthquake, and as part of the 4<sup>th</sup> International Conference on Continental Earthquakes. A pre-conference, four weeks long training course entitled "The North-Central Asian Earthquake Observation Techniques" was presented from April 16 to May 11, 2018.

3<sup>rd</sup> General Assembly of the Latin America and Caribbean Seismological Commission (LACSC)

The 3<sup>rd</sup> GA of the LACSC had been planned to be in Puerto Rico, jointly with the Seismological Society of America (SSA). However, due to the devastating impacts of hurricanes Irma and Maria in September 2017, LACSC and SSA decided to move the meeting to Miami, USA, 14 – 17 May 2018. The assembly had **122** participants from LACSC countries.

36th General Assembly of the European Seismological Commission (ESC)

The 36<sup>th</sup> ESC GA was held in Valletta, Malta, 2 – 7 September 2018. The assembly had **802** participants. The one-week **Peter Bormann Young Seismologist Training Course**, entitled "Array Seismology", was organized before the assembly (27 – 31 August 2018).

#### Newsletter and Website 2018 – 2019

IASPEI Newsletters - IASPEI uses them to broadcast announcements about its activities, forthcoming meetings and other information of interest to IASPEI members. Also downloadable from IASPEI Website. Usually 4 Newsletter issues are published per year.

IASPEI Website - IASPEI continues development of its Website on the WorldWideWeb, which contains organizational information, meeting announcements and other information of interest to IASPEI scientists.

http://www.iaspei.org/

The Website is hosted by the ISC. The website was generally refurbished in 2018/19.

All Commissions should provide new material to updated their pages!

IASPEI is very much indebted to ISC for this help!



The International Association of Seismology and Physics of the Earth's Interior (IASPEI). It is one of the eight Associations that comprise the International Union of Geodesy and Geophysics (IUGG).



IASPEI promotes the study of earthquakes and other seismic sources, the propagation of seismic waves, and the Earth's internal structure, properties, and processes. Scientists participating in IASPEI initiate and co-ordinate research and scientific exchanges that demand co-operation among countries. Work on specific topics is carried out through commissions, committees, task and working groups formed to meet specific needs of new, exciting problems as they

## Report on Assembly statistics

Number of Symposia and WS: 231

Number of Abstracts (total) : 4919

Joint Symposia : 1210

IASPEI : 504 (10 %)

Number of Countries present: 103

Countries with students: 56

Number of Participants : 3993

IASPEI : 525

IASPEI supported : 89

### Financial statement 2015 – 2018

#### INTERNATIONAL ASSOCIATION OF SEISMOLOGY AND PHYSICS OF THE EARTH'S INTERIOR

#### **Quadrennial Financial Report for the Years 2015 – 2018**

All Amounts in USA Dollars

RECEIPTS	IUGG	GRANTS & CONTRACTS	EXPENDITURES	IUGG	GRANTS & CONTRACTS
1 IUGG ALLOCATION	138 286.00 37 553.02 23 990.67 x 504.79 971.29	17 000.00 x x x x x x	11 ADMINISTRATION	20 274.23 x 61 718,83 81 044.53 4 000.00 x 10 486.60	x x x 12 000.00 5 000.00 x
7 TOTAL RECEIPTS	201 305.77	17 000.00	19 TOTAL EXPENDITURES	177 524.19	17 000.00
IDEA FUND RECEIPTS	570.00		IDEA FUND EXPENDITURES	570.00	
DOORNBOS FUND RECEIPTS	0.00		DOORNBOS FUND EXPENDITURES	0.00	
ESC FITESC FUND RECEIPTS	0.00		ESC FITESC FUND EXPENDITURES	1 612.11	
8 CASH ON HAND AND IN BANK Jan. 1, 2015 9 INVESTMENTS & RESERVES Jan. 1, 2015 DOORNBOS FUND Jan. 1, 2015 IDEA FUND Jan. 1, 2015 ESC FITESC FUND Jan. 1, 2015	51 424.01 0.00 22 353.08 13 231.19 1 612.11		20 IN BANK  Dec. 31, 2018	74 635.59 0.00 22 353.08 13 231.19 0.00	
10 TOTAL	289 926.16	17 000.00	22 TOTAL	289 926.16	17 000.00
Jan. 1, 2015			Dec. 31, 2018		

# Report of the Professional Auditor for the period 2015 – 2018



To whom it may concern

#### Independent Auditor's Report

#### Opinion

We have audited the account of International Association of Seismology and Physics of the Earth's Interior for the years 2015 to 2018. The accounts comprise statement of costs as of 31 December each year. The accounts have been prepared by the management.

In our opinion, the accounts of International Association of Seismology and Physics of the Earth's Interior is prepared, in all material respect, in accordance with generally accepted accounting principles.

#### Basis for opinion

We conducted our audit in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including International Standards on Auditing (ISAs). We are independent of the Organization as required by laws and regulations, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### Responsibilities of Management for the Accounts

Management is responsible for the preparation, and for such internal control as management determines is necessary to enable the preparation for accounts that is free from material misstatement, whether due to fraud or error.

#### Auditor's Responsibilities for the Audit of the Accounts

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including ISAs, will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of this account.



As part of an audit in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including ISAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also

- identify and assess the risks of material misstatement of the financial statements, whether
  due to fraud or error. We design and perform audit procedures responsive to those risks, and
  obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion.
   The risk of not detecting a material misstatement resulting from fraud is higher than for one
  resulting from error, as fraud may involve collusion, forgery, intentional omissions,
  misrepresentations, or the override of internal control.
- obtain an understanding of internal control relevant to the audit in order to design audit
  procedures that are appropriate in the circumstances, but not for the purpose of expressing
  an opinion on the effectiveness of the Organization's internal control.
- evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.

We communicate with those charged with governance, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Lillestrøm, 25 June 2019

SLM Revisjon AS

an Ove Hofseth

State Authorised Public Accountant



# Report of the IASPEI Audit Committee for the period 2015 – 2018

#### Report of the IASPEI Audit Committee for the period 2015-2018

We have gone through the accounts with the treasurer Johannes Schweitzer for the period 2015 to 2018 and the budgets for 2019 and 2020. We are of the opinion that the accounts fairly represent the transactions of IASPEI and its financial status.

We have questioned the treasurer about the accounting for expenditures for the assemblies in 2015 (Prague) and 2017 (Kobe), for regional scientific meetings in 2016 and 2018; about the IUGG/IASPEI surcharge income stream, and about the named funds (IDEA, Dornboos, ESC). We have found the explanations fully satisfactory. Our analysis identifies the following major trends concerning income and expenditure.

*Income* increased by \$21k compared to the previous quadrennium (\$201k for 2015-2018 versus \$180k for 2011-2014).

# Report of the IASPEI Audit Committee for the period 2015 – 2018

Expenditure decreased by \$72k compared to the previous quadrennium (\$178k in 2015-2018 versus \$250k in 2011-2014).

Administrative costs decreased by \$40k (\$20k for 2015-2018 versus \$60k for 2011-2014).

Operating result: Income exceeded expenditure by \$24k across the quadrennium, which bolstered the reserves to \$75k. Based on the projected budgets for 2019 and 2020, this is sufficient to keep roughly an average year's expenditure in the accounts at all times. The overall position is sound, but it would be desirable to increase the reserves, especially given that IASPEI's financial activities are heavily subject to fluctuations in currency exchange rates.

We give the treasurer discharge for the accounts for the period 2015-2018.

Jerry A. Carter

Søren Gregersen

Karin Sigloch

Montreal, 12 July 2019

#### Union Activities

#### **New IUGG officers for the period 2019-2023**

President: Kathryn WHALER (UK, IAGA)

Vice-President: Chris RIZOS (Australia, IAG)

Secretary General: Alexander RUDLOFF (Germany, IASPEI / ILP)

Treasurer: Niels ANDERSEN (Denmark, IAG)

Past President: Michael SIDERIS (Canada, IAG)

Bureau members: Eduard PETROVSKY (Czech Republic, IAGA),

Jun XIA (China, IAHS), Stephen MCNUTT (USA, IAVCEI)

Finance Committee: Corinna RISSO (Argentina, IAVCEI), József ÁDÁM (Hungary, IAG); Priscilla GREW (USA, IASPEI)

### **Union Activities**

The 2023 venue for the IUGG GA is

Berlin, Germany

#### **IASPEI Commissions – 1**

Regional Commissions

**African Seismological Commission (AfSC)** 

President: Mustapha MEGHRAOUI (Algier & France)

**Asian Seismological Commission (ASC)** 

President: Paramesh BANERJEE (Singapore)

**European Seismological Commission (ESC)** 

President: María José JIMÉNEZ (Spain)

Latin American and Caribbean Seism. Comm. (LACSC)

President: Mario RUIZ (Ecuador)

#### **IASPEI Commissions - 2**

#### Thematic Commission

#### **Commission on Earth Structure and Geodynamic**

Chair: TBD

## Commission on Earthquake Generation Process – Physics, Modelling and Monitoring for Forecast

Chair: Eleftheria PAPADIMITRIOU (Greece)

#### Commission on Earthquake Hazard, Risk and Strong Ground Motion (SHR)

Chair: Gary GIBSON (Australia) Vice-Chair: Alison Bird (Canada)

#### Commission on Earthquake Source Mechanics (ESM)

Chair: Satoshi IDE (Japan)

## IAG – IASPEI Interassociation Sub-Commission Seismo-Geodesy

Chairs: TBD & TBD

#### IASPEI Commissions – 3

#### **Commission on Education and Outreach**

Co-Chairs: Raju SAKAR (Bhutan); Aaron VELASCO (USA); TBD (India)

# Commission on Seismological Observation and Interpretation (CoSOI)

Chair: Torsten DAHM (Germany)

#### **Commission on Tectonophysics and Crustal Structure**

Co-Chairs: Uli ACHAUER (France) & Mian LIU (USA)

#### **IASPEI Commissions – 4**

Commission Status within IASPEI

Federation of Digital broadband Seismograph Network (FDSN)

Chair: Sergio BARRIENTOS (Chile)

**International Heat Flow Commission (IHFC)** 

Chair: Massimo VERDOYA (Italy)

**International Ocean Network (ION)** 

Chair: Mairi M.R. BEST (Canada)

## IASPEI Representatives 2019 – 2023

- IUGG GEORISK Commission
  Mohsen GHAFORY-ASHTIANY (Iran)
- IUGG Commission on Mathematical Geophysics Malcolm SAMBRIDGE (Australia)
- IUGG Commission on Climatic and Environmental Changes
  Domenico GIARDINI (Switzerland)
- IUGG Commission on Planetary Science Philippe LOGNONNÉ (France)
- IUGG Commission on Data and Information Michelle GUY (USA)

## IASPEI Representatives 2019 – 2023

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission Phil CUMMINS (Australia)

IASPEI/IAVCEI Commission on Physics and Chemistry of Earth Materials
Chair and IASPEI representative: Jiuhua CHEN (USA)

IAVCEI/IASPEI Commission on Volcano Seismology

Chair and IASPEI Representative: Jürgen NEUBERG (UK)

IAGA/IASPEI/IAVCEI WG on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)

IASPEI Representative: Qinghua HUANG (China)

## IASPEI Representatives 2019 – 2023

Studies of the Earth's Deep Interior (SEDI)
Nicholas SCHMERR (USA)

ISC Executive Committee

IASPEI Secretary General (Johannes SCHWEITZER, Norway)

SCAR – Solid Earth Geophysical Working Group Masaki KANAO (Japan)

IAU/IUGG WG on Non-rigid Earth Nutations
Bruce A. BUFFETT (USA)

IUGG/IUGS Commission on the Lithosphere (ILP)
Kevin FURLONG (USA)

#### **Future Activities and Assemblies**

June / July 2020 AfSC GA in Kasane (Botswana)

August 2020 LACSC GA in Quito (Ecuador)

September 2020 ESC GA in Corfu (Greece)

2020 ASC GA in TBD

August 2021 3<sup>rd</sup> IAGA – IASPEI Joint Assembly in Hyderabad (India)

2023 IUGG – GA Assembly in Berlin (Germany)

### **Nomination Committee**

Atalay AYELE (Ethiopia)

Domenico GIARDINI, Past-President & Committee Chair (Switzerland)

Marino PROTTI QUESADA (Costa Rica)

Tim AHERN (USA)

Kiyoshi SUYEHIRO (Japan)

# ELECTION OF IASPEI OFFICERS (2019 – 2023)

# Nominations for IASPEI Bureau and Executive Committee 2019 – 2023

President Kenji SATAKE (Japan), new position, now 1st VP

1<sup>st</sup> Vice-President Michelle GROBBELAAR (South Africa), new position,

now 2<sup>nd</sup> VP

2<sup>nd</sup> Vice-President Li LI (China), new position, now ExeCom member

Secretary General & Treasurer Johannes SCHWEITZER (Norway)

Past President Thorne LAY (USA), new position, ex officio

ExeCom Member Sergio BARRIENTOS (Chile), new nomination

ExeCom Member Fiona Ann DARBYSHIRE (Canada), new nomination

ExeCom Member Daniela PANTOSTI (Italy), new nomination

ExeCom Member Dmitry STORCHAK (UK)

# IASPEI Bureau and Executive Committee 2019 – 2023

President: Kenji **SATAKE** (Japan)

1<sup>st</sup> Vice-President: Michelle **GROBBELAAR** (South Africa)

2<sup>nd</sup> Vice-President: Li LI (China)

Secretary-General: Johannes SCHWEITZER (Norway)

#### OTHER IASPEI EXECUTIVE COMMITTEE MEMBERS

Members: Sergio **BARRIENTOS** (Chile)

Fiona Ann DARBYSHIRE (Canada)

Daniela **PANTOSTI** (Italy)

Dmitry **STORCHAK** (UK)

Thorne **LAY** (USA) (Past President)

## Resolution

**RECOGNISING** the enormous effort required to organise the IUGG General Assembly,

#### **IASPEI**

THANKS and CONGRATULATES the IUGG Local Organizing Committee and its Chair, Fiona Darbyshire, as well as the Scientific Programme Committee and its Chair, Spiros Pagiatakis, for a memorable meeting at an excellent venue in Montreal.

## From the new President

#### **CLOSING OF PLENARY**

Thanks to all of you for participating 40<sup>th</sup> IASPEI General Assembly!

The SG's e-mail is: <a href="mailto:iaspei@norsar.no">iaspei@norsar.no</a>

We look forward to seeing you again at the IASPEI 2021 3<sup>rd</sup> Joint IAGA – IASPEI Scientific Assembly in Hyderabad, India!

