



**INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS**  
**UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE**

## **The IUGG Electronic Journal**

**Volume 15 No. 7 (15 June 2015)**

**NOTE:** This June issue of the IUGG E-Journal follows 2 weeks from the 1 June issue. There will not be a July issue. Normal E-Journal issues should resume in August. These unusual issue dates are necessary to accommodate the events leading up to, and including, the General Assembly.

**Special Issue for the 26th General Assembly of the IUGG**  
**Prague, Czech Republic, 22 June – 2 July 2015**  
[www.iugg2015prague.com](http://www.iugg2015prague.com)

This special newsletter issue provides the latest information and key dates for the 26<sup>th</sup> General Assembly of the International Union of Geodesy and Geophysics (IUGG). Past issues are posted on the IUGG website (<http://www.iugg.org/publications/ejournals/>). Please forward this message to those who will benefit from the information. Your comments are welcome.

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### **1. The 26th IUGG General Assembly**

IUGG General Assemblies are held every four years and provide an opportunity for scientists from all over the world representing eight Union Associations that comprise the IUGG and official delegates of 70 Member Countries of IUGG to come together to share their latest scientific discoveries and to determine strategies of the Union development for the next four years. This will be the second time that the IUGG General Assembly has been held in Prague (the previous one was the Third General Assembly in 1927). The Czech Republic is ideal destination for holidays and tourism, offering excellent historical, cultural, and natural touring opportunities.

The General Assembly will be held in the Prague Congress Centre positioned in the middle of the city. The centre is shown in the photo below and more information is available at the webpage <http://www.kcp.cz/en/homepage>.



*Prague Congress Centre*

## **2. Scientific Program of the Assembly**

The Scientific Program of the 26th IUGG General Assembly will run from **Tuesday 23 June until Wednesday 1 July**. Each day will consist of four 90-minute oral sessions and posters sessions. The Tuesday, 23 June, afternoon session will be the Opening Ceremony followed by the Award Ceremony and Reception; the Wednesday, 1 July, afternoon session will be the Closing Ceremony; and three morning sessions will have Union Plenary presentations.

The Scientific Program of the 2015 IUGG General Assembly includes three categories of symposia and a number of workshops on a wide range of geophysical themes. These include:

- **Union Symposia** which cover a wide range of themes of concern to all or many Associations and Union Commissions. Invited speakers feature in these Symposia, supported by poster presentations selected by the convenors from those submitted. Some of the Union Symposia are expanded or followed in greater depth in related Joint Symposia or in Association Symposia.
- **Joint Symposia** with invited speakers and scientists whose presentations (which consist of oral and poster presentations) are accepted by the session convenors. The themes have been devised by at least two Associations, one of which is the lead Association. Some Joint Symposia are developed further separately in Association Symposia and Workshops.
- **Association Symposia** with invited speakers and scientists whose presentations (which consist of oral and poster presentations) are accepted by the session convenors. The eight Associations, and the single letter code used to identify them, are:
  - C - IACS International Association of Cryospheric Sciences
  - G - IAG International Association of Geodesy
  - A - IAGA International Association of Geomagnetism and Aeronomy
  - H - IAHS International Association of Hydrological Sciences
  - M - IAMAS International Association of Meteorology and Atmospheric Science
  - P - IAPSO International Association for the Physical Sciences of the Oceans
  - S - IASPEI International Association of Seismology and Physics of the Earth's Interior
  - V - IAVCEI International Association of Volcanology and Chemistry of the Earth's Interior

The detailed Scientific Program is available online at: <http://www.iugg2015prague.com/complete-programme.htm>

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### 3. Union Plenary Lectures

The scientific theme for the General Assembly is Earth on the Edge: Science for a Sustainable Planet. The IUGG President has invited nine of the world's leading scientists to present Plenary Lectures on the following topics, listed in the order of presentation:

- **Transformation of Human Society for Sustainable Future** (by *Yuan T. Lee*, Academy Sinica, Taipei, China)
- **The Whole-System Approach to Extreme Space Weather** (by *Janet U. Kozyra*, National Science Foundation, Arlington, VA, USA)
- **Challenges of Educating Hydrologists for the Global South; the Case of Southern Africa** (by *Dominic Mazvimavi*, University of the Western Cape, Cape Town, South Africa)
- **Sea Level Change in the Anthropocene** (by *Jonathan Gregory*, University of Reading and Met Office, Reading, United Kingdom)
- **Earthquake Dynamics and Seismic Radiation** (by *Raul Madariaga*, École Normale Supérieure, Paris, France)
- **Volcanic Ash and Aviation Safety** (by *Thomas J. Casadevall*, U.S. Geological Survey, Denver, CO, USA)
- **Contributions of Geodesy to Monitoring Natural Hazards and Global Change** (by *Harald Schuh*, German Research Centre for Geosciences, Potsdam, Germany)
- **Atmospheric Chemistry in the Anthropocene** (by *Laura Gallardo*, University of Chile, Santiago, Chile)
- **The Global Ocean Carbon Sink: Recent Trends and Variability** (by *Nicolas Gruber*, ETH, Zurich, Switzerland)

The abstract of the lectures and the short bios of the Union Lecturers can be viewed at <http://www.iugg2015prague.com/union-lectures.htm>


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### 4. Important Events

Following are a list of special scientific and business events that will take place during the General Assembly, in chronological order (room number is in parentheses). The full list of business meetings can be found at: <http://www.iugg2015prague.com/business-meetings.htm>

Monday, 22 June	13:30 – 18:00	First session of the IUGG Council Meeting (Conference Hall; by invitation only)
Tuesday, 23 June	08:30 – 10:00 10:30 – 12:00	Union Symposium U1 “ <i>Future Earth and Sustainability</i> ” (Congress Hall)
Tuesday, 23 June	16:30 – 18:00	Opening Ceremony. Award Ceremony (Congress Hall)
Tuesday, 23 June	18:00 – 20:00	Welcome Reception (Foyer around Congress Hall – Poster and Exhibition Area)
Wednesday, 24 June	08:30 – 10:00 13:30 – 15:00	Union Symposium U2 “ <i>Integrated Disaster Risk Science: Accounting for Extremes</i> ”

	16:30 – 18:00	(Congress Hall)
Wednesday, 24 June	10:30 – 12:00	Union Lecture UL1  10:30: <i>“Transformation of Human Society for Sustainable Future”</i> . Speaker: <i>Yuan T. Lee (China-Taipei)</i> 11:00: <i>“The Whole System Approach to Extreme Space Weather”</i> . Speaker: <i>Janet U. Kozyra (USA)</i> 11:30: <i>“Challenges of Educating Hydrologists for the Global South; the Case of southern Africa”</i> . Speaker: <i>Dominic Mazvimavi (South Africa)</i> (Congress Hall)
Thursday, 25 June	08:30 – 12:00	Second Session of the IUGG Council Meeting (Conference Hall; by invitation only)
Thursday, 25 June	08:30 – 10:00 10:30 – 12:00	Union Symposium U8 <i>“Geo-Monitoring in the 21st Century”</i> (Congress Hall)
Thursday, 25 June	13:30 – 15:00 16:30 – 18:00	Union Symposium U10 <i>“Sea Level Change and Variability: Past, Present and Future”</i> (Congress Hall)
Friday, 26 June	08:30 – 10:00 13:30 – 15:00 16:30 – 18:00	Union Symposium U6 <i>“Data Assimilation and Inverse Problems in Geophysical Sciences”</i> (Congress Hall)
Friday, 26 June	10:30 – 12:00	Union Lecture UL2  10:30: <i>“Sea Level Change in the Anthropocene”</i> . Speaker: <i>Jonathan Gregory (UK)</i> 11:00: <i>“Earthquake Dynamics and Seismic Radiation”</i> . Speaker: <i>Raul Madariaga (France)</i> 11:30: <i>“Volcanic Ash and Aviation Safety”</i> . Speaker: <i>Thomas J. Casadevall (USA)</i> (Congress Hall)
Saturday, 27 June	08:30 – 10:00 10:30 – 12:00 13:30 – 15:00	Union Symposium U11 <i>“Early Career Scientists Symposium”</i> (Congress Hall)

	16:30 – 18:00	
Saturday, 27 June	18:30 – 21:00	Presidential Reception (by invitation only) (Corinthia Hotel Prague, Suite 2, 3rd floor Kongresová 1655/1, 140 69 Prague 4)
Sunday, 28 June	08:30 – 10:00 10:30 – 12:00 13:30 – 15:00 16:30 – 18:00	Union Symposium U5 “ <i>New Discoveries in Deep Interior of the Earth and Planets</i> ” (Congress Hall)
Monday, 29 June	08:30 – 10:00 13:30 – 15:00 16:30 – 18:00	Union Symposium U9 “ <i>Revolutions in Earth Sciences: from Different Spheres to a Common Globe</i> ” (Congress Hall)
Monday, 29 June	10:30 – 12:00	Union Lecture UL3   10:30: “ <i>Contributions of Geodesy to Monitoring Natural Hazards and Global Change</i> ”. Speaker: <i>Harald Schuh (Germany)</i> 11:00: “ <i>Atmospheric Chemistry in the Anthropocene</i> ”. Speaker: <i>Laura Gallardo (Chile)</i> 11:30: “ <i>The Global Ocean Carbon Sink: Recent Trends and Variability</i> ”. Speaker: <i>Nicolas Gruber (Switzerland)</i> (Congress Hall)
Monday, 29 June	15:00 – 18:00	Third Session of the IUGG Council Meeting (Conference Hall; by invitation only)
Tuesday, 30 June	08:30 – 10:00 10:30 – 12:00	Union Symposium U3 “ <i>Mathematics and Observations of Earth Systems</i> ” (Congress Hall)
Tuesday, 30 June	13:30 – 15:00 16:30 – 18:00	Union Symposium U4 “ <i>Data Science and Analytics in Geodesy and Geophysics – Research and Education Progress and Opportunities</i> ” (Congress Hall)
Wednesday, 1 July	08:30 – 10:00 10:30 – 12:00	Union Symposium U7 “ <i>The Potential for Carbon- and Climate-Engineering to Offset Global Change</i> ” (Congress Hall)
Wednesday, 1 July	16:30 – 18:00	Closing Ceremony (Congress Hall)

## 5. Information for Council Delegates

The IUGG Council Meeting will be held on **22 June** (1st Session), **25 June** (2nd Session), and **29 June** (3rd Session) in the **Conference Hall**. Attendance is restricted to accredited Delegates and invited Guests. Please ensure that the Adhering Body has sent the original letter of accreditation to

the IUGG Secretariat and issued credentials for delegates to the Association Plenaries. Please carry a copy of your accreditation letter when you attend the Council meeting.

Of the 70 members of IUGG, there are 10 Associates, 13 Observers, and 47 countries with dues paid that are therefore eligible to vote. If dues are received from an Observer country prior to the General Assembly, the relevant National Delegate will be able to vote. As of this date, delegates from 47 members will attend the Council meeting, including 1 Associate Members who attend as Listeners of the Council. A hard copy of the Agenda Book will be given to each Council Delegate.

Important votes to be taken at the third session of the Council Meeting (29 June) include (i) changes to Statutes and By-Laws, (ii) approval of the Budget for 2016-2019, (iii) election of officers, and (iv) selection of the venue of the 2019 General Assembly. Delegates unable to attend a specific Council session may arrange with the Secretary General to submit a ballot in advance.

*Selection of the venue of the 27th IUGG General Assembly in 2019.* Invitations were received to hold the 27th IUGG General Assembly in Montreal, *Canada*, and Delhi, *India*. The IUGG Site Evaluation Committee prepared a comprehensive report based on the evaluations of the two bids and on the site inspection carried by two members of the committee. The report will be presented at the first session of the Council and the bidders will present their proposals to the Council at the third session of the Council meeting.

The Statutes and By-Laws of the Union are found at: <http://www.iugg.org/statutes/>. The Council Meetings are conducted according to Robert's Rules of Order Newly Revised, which also deals with an assembly of delegates. The duties of delegates are as follows: "When a member of a constituent unit (the Adhering Body in the case of IUGG) has accepted election as a delegate, he has the obligation to attend the convention, with such expense allowance as the unit may provide; he should not leave it to an alternate to serve in his place except for serious reason. At the convention, the delegate has the duty to be present at the business meetings, and to be prepared on returning from the convention to present to his unit an information report on what transpired. A delegate is free to vote as he sees fit on questions at the convention, except as his constituent unit may have instructed him in regard to particular matters scheduled for consideration."

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## 5. Awards to be presented at the IUGG2015

### IUGG Awards

#### *IUGG Gold Medalist*

Name	Last Name	Country
Brian J.	<a href="#">Hoskins</a>	UK

#### IUGG Fellows

##### IUGG elected Fellows

Name	Last Name	Country
John	<a href="#">Burrows</a>	GERMANY/UK
Xiaofei	<a href="#">Chen</a>	CHINA
Andrea	<a href="#">Flossmann</a>	FRANCE/GERMANY
Sophie	<a href="#">Godin-Beekmann</a>	FRANCE

Gerald	<a href="#">Jones</a>	CANADA
Jianping	<a href="#">Li</a>	CHINA/USA

IUGG conferred Fellows

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Robin	<a href="#">Adams</a>	UK
Ian	<a href="#">Allison</a>	AUSTRALIA
Ole Bedsted	<a href="#">Andersen</a>	DENMARK
Shigeo	<a href="#">Aramaki</a>	JAPAN
Attia A.	<a href="#">Ashour</a>	EGYPT
Arthur	<a href="#">Askew</a>	SWITZERLAND/AUSTRALIA
Georges	<a href="#">Balmino</a>	FRANCE
Charles	<a href="#">Barton</a>	AUSTRALIA
Gerhard	Beutler	SWITZERLAND
Claude	<a href="#">Boucher</a>	FRANCE
Fred E.	<a href="#">Camfield</a>	USA
Junyong	Chen	CHINA
Yun Tai	Chen	CHINA
Henny	<a href="#">Colenbrander</a>	NETHERLANDS
Huw C.	<a href="#">Davies</a>	SWITZERLAND
Jean-Claude	De Bremaecker	USA
Robert A.	<a href="#">Duce</a>	USA
E. Robert	<a href="#">Engdahl</a>	USA
Sergei A.	Fedotov	RUSSIA
Eigil	Christensen	DENMARK
Claude	Froidevaux	FRANCE
Paolo	<a href="#">Gasparini</a>	ITALY
Vinod K.	Gaur	INDIA
Soren	<a href="#">Gregersen</a>	DENMARK
Erwin	<a href="#">Groten</a>	GERMANY
Michael J.	<a href="#">Hamlin</a>	UK
Grant	<a href="#">Heiken</a>	USA
Brian J.	Hoskins	UK
Bengt	Hultqvist	SWEDEN
Shiro	<a href="#">Imawaki</a>	JAPAN
David D.	Jackson	USA
R. Wally	Johnson	AUSTRALIA
Jo Ann	<a href="#">Joselyn</a>	USA
Georg	<a href="#">Kaser</a>	AUSTRIA
Brian L. N.	<a href="#">Kennett</a>	AUSTRALIA
David J.	<a href="#">Kerridge</a>	UK
Masaru	<a href="#">Kono</a>	JAPAN
Herbert W.	<a href="#">Kroehl</a>	USA
Michael	<a href="#">Kuhn</a>	AUSTRIA
Manfred	<a href="#">Lange</a>	GERMANY/CYPRUS
Roland	<a href="#">List</a>	CANADA
Michel	Louis	FRANCE
Michael C.	<a href="#">MacCracken</a>	USA
Paola	<a href="#">Malanotte-Rizzoli</a>	USA/ITALY
Gordon	<a href="#">McBean</a>	CANADA
Steve R.	<a href="#">McNutt</a>	USA
Helmut	<a href="#">Moritz</a>	AUSTRIA
Ivan I.	<a href="#">Mueller</a>	USA
Robin D.	<a href="#">Muench</a>	USA

Lawrence	<a href="#">Mysak</a>	CANADA
Setsuya	<a href="#">Nakada</a>	JAPAN
Oded	<a href="#">Navon</a>	ISRAEL
Alexei V.	Nikolaev	RUSSIA
James J.	<a href="#">O'Brien</a>	USA
Patrick	<a href="#">Pinet</a>	FRANCE
John C.	<a href="#">Rodda</a>	UK
Juan G.	<a href="#">Roederer</a>	USA
Fernando	<a href="#">Sanso</a>	ITALY
Hans-Ulrich	<a href="#">Schmincke</a>	GERMANY
Uri	<a href="#">Shamir</a>	ISRAEL
L. Vere	Shannon	SOUTH AFRICA
Jozef	<a href="#">Somogyi</a>	HUNGARY
Steve J.	<a href="#">Sparks</a>	UK
A. Fred	<a href="#">Spilhaus</a>	USA
Kiyoshi	<a href="#">Suyehiro</a>	JAPAN
Kuni	<a href="#">Takeuchi</a>	JAPAN
Ali A. A.	<a href="#">Tealeb</a>	EGYPT
Wolfgang	<a href="#">Torge</a>	GERMANY
Seiya	<a href="#">Uyeda</a>	JAPAN
Juan F.	<a href="#">Vilas</a>	ARGENTINA
Guoxiong	<a href="#">Wu</a>	CHINA
Zhongliang	<a href="#">Wu</a>	CHINA
Peter J.	<a href="#">Wyllie</a>	USA
Gordon	<a href="#">Young</a>	CANADA

### IUGG Early Career Scientist Awardees

Name	Last Name	Country
Ruiqiang	<a href="#">Ding</a>	CHINA
Andreas	<a href="#">Fichtner</a>	SWITZERLAND
Gregory	<a href="#">Foltz</a>	USA
Markus	<a href="#">Hrachowitz</a>	NETHERLANDS
Matthias	<a href="#">Huss</a>	SWITZERLAND
Ben	<a href="#">Kravitz</a>	USA
Ben	<a href="#">Marzeion</a>	AUSTRIA
Ilona	<a href="#">Riipinen</a>	SWEDEN/USA/FINLAND
Johanna	<a href="#">Salminen</a>	FINLAND
Futoshi	<a href="#">Takahashi</a>	JAPAN

### Association Awards

#### IACS Awardee

2015 Early Career Scientist Price

Name	Last Name	Country
Mathieu	Morlighem	USA

#### IAG Awardees

Levallois Medal

Name	Last Name	Country
Reinhard	Rummel	GERMANY



#### Bomford Prize

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Yoshiyuki	Tanaka	JAPAN

#### 2013 Young Authors Award

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Krzysztof	Sosnica	SWITZERLAND

#### 2014 Young Authors Award

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Álvaro	Santamaria-Gómez	FRANCE

#### IAGA Awardees

##### Shen Kuo Award for interdisciplinary achievements

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Dan	Baker	USA

##### IAGA Long Service Awards

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Hans-Joachim	Linthe	GERMANY
John	Riddick	UK

##### Young Scientist Awards

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Erin	Dawkins	UK
Maria	Mendakiewicz	POLAND
Israel	Silber	ISRAEL
Rémi	Thiéblemont	GERMANY

#### IAHS Awardees

##### 2015 International Hydrology Prize (IHP Dooge medal)

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Mary	Hill	USA

##### 2015 International Hydrology Prize (IHP Volker medal)

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Pierre	Hubert	FRANCE

##### 2015 Tison Award

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Antonino	Maltese	ITALY
Fulvio	Capodici	ITALY

#### IAMAS Awardees

##### 2015 Early Career Scientist Medal

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Yuan	Wang	USA

## **IAPSO Awardees**

2015 Prince Albert I Medal

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Toshio	Yamagata	JAPAN

## **IASPEI Awardees**

Medal 2015

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
William H. K.	Lee	USA

## **Other Awards**

Young Researcher Award of the Consiglio Nazionale delle Ricerche (CNR)  
to attend the 26<sup>th</sup> IUGG General Assembly

<b>Name</b>	<b>Last Name</b>	<b>Country</b>
Flavia	Tauro	ITALY

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End of IUGG Electronic Journal Volume 15 Number 7 (15 June 2015)

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**Note: Contributions to IUGG E-Journal are welcome from members of the IUGG family. Please send your contributions to Alik Ismail-Zadeh by e-mail (insert in Subject line: *contribution to E-Journal*). The contributions will be reviewed and may be shortened.**