



INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS
UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE

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This monthly newsletter is intended to keep IUGG Members and individual scientists informed about the activities of the Union, its Associations and interdisciplinary bodies, and the actions of the IUGG Secretariat, Bureau, and Executive Committee. Past issues are posted [here](#). E-Journals may be forwarded to those who will benefit from the information. Your comments are welcome.

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1. IUGG – Conferred Honorary Members (Fellows)

Honorary Membership (Fellowship) of the International Union of Geodesy and Geophysics is a tribute to individuals who have made exceptional contributions to international cooperation in geodesy or geophysics and attained eminence in the field of Earth and space sciences. The IUGG Bureau confers IUGG Fellowship on Executive Committee and Finance Committee members and Association Secretaries General upon retirement from their office.

The IUGG Bureau decided to confer Honorary Membership on the following individuals in 2023:

Steven Ackerman (IAMAS Secretary General, 2019-2023, USA)

Patrick Allard (IAVCEI President, 2019-2023, France)

Zuheir Altamimi (IAG President, 2019-2023, France)

Günter Blöschl (IAHS President, 2017-2021, Austria)

Christophe Cudennec (IAHS Secretary General, 2011-2023, France)

Aksel Hansen (IUGG Treasurer, 1999-2019, Denmark)

Regine Hock (IACS President, 2017-2021, Norway)

Trevor McDougall (IAPSO President, 2019-2023, Australia)

Joyce Penner (IAMAS President, 2019-2023, USA)

Markku Poutanen (IAG Secretary General, 2019-2023, Finland)

Harald Schuh (IAG President, 2015-2019, Germany)

Michael Sideris (IUGG President, 2015-2019, Canada)
Stefania Sparnocchia (IAPSO Secretary General, 2015-2023, Italy)
Roberto Sulpizio (IAVCEI Secretary General, 2015-2023, Italy)
Jun Xia (IUGG Bureau Member, 2019-2023, China)

The new honorary members will receive their awards during the Closing Ceremony of the IUGG General Assembly 2023 on 19 July 2023.

Congratulations and thank you for your long-standing service to IUGG!

2. IUGG – Finance Committee (2023-2027): Vacant Position

As there is still one vacant position for the Finance Committee (2023-2027), **it is a matter of urgency to nominate candidates** from among the current or past accredited Council Delegates. The full list of Council Delegates who have served since 2002 is available [here](#). Please note that this list also includes a few colleagues who already passed away. No member of the Finance Committee may at the same time be a member of the Bureau or the executive body of the Union or of an Association or of a governing body of one of the Permanent Services or programs supported by the Union.

According to IUGG ByLaw 10c, **Council Delegates** may add further nominations for the Finance Committee until **15 July 2023** (three days prior to the elections on 18 July 2023).

If you have any question concerning the nomination procedure, please contact the [IUGG Executive Secretary](#). The slate of candidates for Bureau and Finance Committee (2023-2027) is available [here](#) (item 1).

3. IUGG – General Assembly 2023: Updates

Accommodation

Selected hotels at negotiated rates are now available [here](#). Rooms are available from 10 to 20 July 2023. All other dates are upon request and subject to room availability.

Childcare Service for Ages 1-12

The IUGG is committed to providing a good meeting experience for attendees bringing their children to Berlin, therefore childcare facilities will be available at the conference venue CityCube from 12 to 19 July. If interested, please fill in the [form](#) and we will get back to you with further information.

Code of Conduct Policy

IUGG opposes any discrimination or harassment based on such factors as age, citizenship, disability, ethnic origin, gender identity, language, political or other opinion, religion, or sexual orientation. The [IUGG General Assembly 2023](#) will follow Anti-Harassment Guidelines to prevent any form of harassment or discrimination, and to ensure an inclusive atmosphere that encourages the free expression and exchange of scientific ideas and results. The code of conduct policy is available [here](#).

Field Trips and Tours

The organisers of the [IUGG General Assembly 2023](#) have prepared an interesting selection of field trips and city tours which can be booked [here](#).



Getting there

No matter if you travel to Berlin by train, plane, or car, please find all relevant information about how to reach the convention centre [here](#). Please note that the registration for the [IUGG General Assembly 2023](#) does not include a ticket for public transportation.

Program

The complete and searchable scientific program is now available [here](#). The [program at a glance](#) is shown below. A schedule of business meetings is available [here](#).

	TUESDAY 11 July	WEDNESDAY 12 July	THURSDAY 13 July	FRIDAY 14 July	SATURDAY 15 July	SUNDAY 16 July	MONDAY 17 July	TUESDAY 18 July	WEDNESDAY 19 July	THURSDAY 20 July			
08:30-09:00	Business Meetings (by invitation only)	AM1 Sessions								Business Meetings (by invitation only)	08:30-09:00		
09:00-09:30		AM1 Sessions									09:00-09:30		
09:30-10:00		Break									09:30-10:00		
10:00-10:30		Break									10:00-10:30		
10:30-11:00		AM2 Sessions		Union Lectures	AM2 Sessions	Union Lectures	AM2 Sessions	Union Lectures	AM2 Sessions		10:30-11:00		
11:00-11:30		AM2 Sessions		Union Lectures	AM2 Sessions	Union Lectures	AM2 Sessions	Union Lectures	AM2 Sessions		11:00-11:30		
11:30-12:00		AM2 Sessions		Union Lectures	AM2 Sessions	Union Lectures	AM2 Sessions	Union Lectures	AM2 Sessions		11:30-12:00		
12:00-12:15		Break									12:00-12:15		
12:15-12:30		Break									12:15-12:30		
12:30-13:15		Break		Big Themes	Big Themes	Big Themes	Big Themes	Big Themes	Big Themes		Break	12:30-13:15	
13:15-13:30		Break									13:15-13:30		
13:30-14:00		Business Meetings (by invitation only)		PM1 Sessions		The Gold Medal Lecture	PM1 Sessions		Business Meetings (by invitation only)		13:30-14:00		
14:00-14:30		Business Meetings (by invitation only)		PM1 Sessions		The Gold Medal Lecture	PM1 Sessions		Business Meetings (by invitation only)		14:00-14:30		
14:30-15:00		Break									14:30-15:00		
15:00-15:30		Break									15:00-15:30		
15:30-16:00		PM2 Sessions									15:30-16:00		
16:00-16:30		PM2 Sessions									16:00-16:30		
16:30-17:00		PM2 Sessions									16:30-17:00		
17:00-17:30		Poster Sessions		Poster Sessions							Poster Sessions		17:00-17:30
17:30-18:00		Poster Sessions		Poster Sessions							Poster Sessions		17:30-18:00
18:00-18:30		Poster Sessions		Poster Sessions							Poster Sessions		18:00-18:30
18:30-19:00		Poster Sessions		Poster Sessions							Poster Sessions		18:30-19:00
19:00-19:30		Poster Sessions		Poster Sessions							Poster Sessions		19:00-19:30
19:30-20:00		Poster Sessions		Poster Sessions							Poster Sessions		19:30-20:00
20:00-20:30	Poster Sessions		Poster Sessions						Poster Sessions		20:00-20:30		
07:30-18:00	Registration										07:30-18:00		
10:00	Exhibition		Exhibition	Exhibition	Exhibition	Exhibition	Exhibition	Exhibition		10:00			
18:30	Exhibition		Exhibition	Exhibition	Exhibition	Exhibition	Exhibition	Exhibition		18:00			
20:30	Exhibition		Exhibition	Exhibition	Exhibition	Exhibition	Exhibition	Exhibition		20:30			

Program at a glance of the IUGG General Assembly 2023

Registration

Are you planning to attend the [IUGG General Assembly 2023](#) only for a short time? It is now possible to [register](#) also for a single day and a four day period.

Volunteer Opportunities

Are you a student and wish to get free access to the [IUGG General Assembly 2023](#)? Become a volunteer by expressing your interest [here](#)!

For more information, please visit the [IUGG2023 website](#) or contact the [IUGG2023 Secretariat](#).

4. IUGG CHINA –5th Congress of China Geodesy and Geophysics: Report

From 21 to 23 April 2023, the 5th Congress of China Geodesy and Geophysics (CCGG) was successfully held in Wuhan, China. The 5th CCGG was sponsored by the Chinese National Committee for International Union of Geodesy and Geophysics (CNC-IUGG) and organised by Wuhan University.

The theme of the 5th CCGG was ‘Earth System Sciences and Large River Sustainable Development’. 16 academicians from the Chinese Academy of Sciences and the Chinese Academy of Engineering, together with more than 3,900 scientists and students from over 300 universities, research institutions and other organisations gathered in Wuhan to exchange their scientific achievements, ideas and visions.



Participants of the 5th CCGG in Wuhan, China



Jun Xia, President of CNC-IUGG and IUGG Bureau Member, giving his welcome speech

Kathryn Whaler, IUGG President, and Jun Xia, President of CNC-IUGG and IUGG Bureau Member, delivered welcome speeches at the opening ceremony. Chris Rizos, IUGG President-Elect, delivered a pre-recorded keynote speech. Five other keynote presentations were delivered by eminent scientists from China and abroad. The 5th CCGG Excellent Student Paper Award was presented to 10 students at the Opening Ceremony.

46 scientific sessions were organised, and over 800 oral and 500 poster presentations were selected following a peer-review process. Topics covered cryospheric science, geomagnetism and aeronomy, geodesy, hydrology, meteorology and atmospheric science, physical oceanography, seismology, volcanology, and interdisciplinary studies, which reflected the latest achievements and progress in Earth Sciences of China over the past two years.

Jun Xia, President of CNC-IUGG and IUGG Bureau Member

5. ISC – Mid-term Meeting: Report

I represented IUGG at the mid-term meeting of the International Science Council (ISC), held in Paris, France, from 11 to 13 May 2023, with theme ‘Capitalizing on Synergies in Science’. The ISC was formed in 2018 by a merger of the international natural and social science



**International
Science Council**

councils, and this was its first in-person meeting since its inception. The programme was put together with input from members as to where their priorities lie, and can be found [here](#). Several hundred delegates attended, and there was considerable lively discussion, during the formal meeting, in the breaks and at social events, as delegates welcomed the opportunity to network.

I had accepted an invitation to co-Chair ‘Session 2: Membership Forum – The Evolution of Science in a Global Context’, during which I gave a Union view of the context in which science systems evolve, and the challenges we are facing now and in the future. Many of the challenges facing Unions were the same as those facing the ISC itself and were covered in the previous session on ‘The Present and Future of the ISC’, such as trust in science and scientists, the spread of misinformation, the impacts of the pandemic, conflicts, and artificial intelligence, the north-south divide, the need for inter- and trans-disciplinarity, open data and publishing, and freedom and responsibility in science. However, I did also mention the practical difficulties of maintaining observing networks, particularly in the global south, and the increasing dangers (including of theft, assault, kidnap and even death) to scientists and technicians who make the measurements and service the equipment. I pointed out that satellite data cannot replace these ground observations, and that it is essential that the data are made freely available in a timely fashion for all to use, and placed in recognised repositories.

The focus of ISC is shifting compared to those of the Science Councils from which it was formed, with the President, Peter Gluckman, keen for it to be the ‘go-to’ organisation for advice on policy and involvement in diplomacy. As such, it is increasing its involvement and forming closer links with the UN Headquarters and UN Agencies, and expanding its staffing levels. The President advised delegates that the organisations we represent should expect many invitations to nominate experts to help provide this advice – we have already successfully nominated IAHS Secretary General Christophe Cudennec to participate in the UN Water Conference in March 2023, for which he helped prepare a Policy Briefing. At the meeting, the [ISC Centre for Science Futures](#) was launched, to gather evidence on changes in science systems, and understand where this is taking us in the future.

Many parts of the programme led to discussions on the Sustainable Development Goals ([SDGs](#)), global warming, biodiversity loss, and hazards, disasters and risk, especially their unequal impacts on different societies and groups of people. In particular, it was pointed out that most SDG targets are not on track, with many metrics reflecting a worse situation than when the Agenda was launched in 2015.

Members of the ISC fall into several categories – International Unions such as IUGG, known as Category 1, and national bodies such as the National Academy of Sciences, known as Category 2, and other organisations such as the Scientific Committee on Antarctic Research. ISC has established a Working Group on Constitutional Revision, to guide a revision of the Statutes and Rules of Procedure, since the existing Statutes and Rules were a pragmatic solution to facilitate the merger that founded the ISC. The existing ISC Constitution affords different voting rights to the different categories, such that the combined votes of each of the Unions and National Bodies carry equal weight. Following discussions before the meeting, in a parallel session of Category 1 Members, and when Constitutional Revision was discussed in plenary sessions, it became clear that the Unions remain implacably opposed to any constitutional change that could erode their equal voting weight.

The Unions also felt that changes risked reducing the voice of less rich national bodies, most of which are from the global south. A suggestion from the ISC President during the plenary sessions that national and regional Unions with international membership could also join ISC was also regarded as unwelcome, since many of them have far greater financial resources than the International Unions. After the meeting finished, available delegates from the Unions met and agreed to send a letter outlining our disquiet to the ISC Governing Board before it met the following week.

It was such a delight to have spontaneous informal interactions again – for example, I met the President of the International Association of Physics Students, Cyrus Walther, which now plans to participate in the Early Career Scientists’ ‘Big Theme’ at the IUGG General Assembly 2023, and Kazuo Shiokawa, the President of SCOSTEP, who was concerned about the cessation of magnetometer station data sharing with Russia following the invasion of Ukraine, which may lead to a Resolution at the General Assembly.

Kathy Whaler, IUGG President

6. EGU – General Assembly 2023: Report



The IUGG President, Secretary General and Executive Secretary were at the EGU General Assembly 2023 in Vienna, Austria, from 23 to 28 April 2023. The Executive Secretary, together with colleagues from [C-IN](#) (the professional conference organiser of the IUGG General Assembly 2023) and Federal Institute for Geosciences and Natural Resources ([BGR](#); the Adhering Body of Germany to IUGG) organised an exhibition stand to promote IUGG and its upcoming General Assembly. The President and Secretary General attended a meeting of the ‘Global Geosciences Societies’, an informal group that aims to meet whenever one of the members has an in-person meeting. The main agenda items were Hybrid Meetings: Lessons Learned; Open Science including publishing; Equality, Diversity and Inclusion topics; and Strategy and Policy: societal challenge areas (e.g., climate change, sustainable development). One of the main activities of the group is a set of Task Teams addressing areas of mutual concern, through which we have, for instance, issued two Earth Day statements and are about to launch an early career researchers’ survey. The President and Secretary General were invited to the President’s Reception, and the President and Executive Secretary attended an American Geophysical Union Leadership Dinner. Our flagship programme with the International Union of Geological Sciences ([IUGS](#)), the International Lithosphere Programme ([ILP](#)), held its annual Business Meeting, which the President and Secretary General attended.

7. IYBSSD2022 – 24-hour Online Meeting

*Basic Sciences for Sustainable Development –
5 June, 05:00 GMT to 6 June, 05:00 GMT*



How are scientists paving the way to the collective progress towards sustainable development? How could they do better, and more? International scientific unions, research organisations, science academies, learned societies, and scientific networks involved in the International Year of Basic Sciences for Sustainable Development ([IYBSSD2022](#)) in 2022 and 2023 are already working on answering these questions.

On the occasion of World Environment Day on 5 June 2023, we are offering science enthusiasts a 24-hour live online broadcast, to share how scientific results, as well as ways of doing science, already contribute to building a better world for all.

How can we reduce pollution from plastics and electronic waste? What will be the effects of climate change on future plant-herbivore interactions or on extreme weather events? How does biophysics improve human health and agriculture? Why must we develop a more open approach to science? How are big science facilities already transitioning to sustainability? What can basic physics bring to environment research or cultural heritage preservation? What are the most efficient actions to reduce the gender gap in science?

Join scientists from Korea to Colombia, from Burkina Faso to Sri Lanka, from South Africa to Canada, from diverse experiences and backgrounds, who will discuss these questions and many more.

Most talks and discussions will be in English. Some will be in Spanish, Arabic, Portuguese, and other languages.

About

[IYBSSD2022](#)

Proclaimed by the United Nations General Assembly, it aims to increase the recognition of the importance of science to progress in the directions given by the 2030 Agenda of the United Nations. It was officially launched at UNESCO headquarters in Paris, France, 8 July 2022. Over 250 events have already been held around the globe, with hundreds of thousands of participants. Many more are planned until the closing ceremony, that will be held on 15 December 2023 at CERN, in Geneva, Switzerland.

[The United Nations 2030 Agenda](#)

It is the ambitious program that the Member States of the United Nations have agreed on to ensure a balanced, sustainable, and inclusive development of all the world's populations. It is articulated into 17 Sustainable Development Goals towards which we must collectively strive.

IUGG is a founding partner of the IYBSSD.

8. Awards and Honours

European Geosciences Union (EGU)



Athena Coustenis

The 2023 Jean Dominique Cassini Medal & Honorary Membership was awarded to **Athena Coustenis** (IAMAS President, 2011-2015) for her major discoveries in the field of planetary atmospheres and surfaces and outstanding contribution to international space missions.

Athena Coustenis, Director of Research Exceptional Class at the Laboratoire d'études spatiales et d'instrumentation en astrophysique (LESIA), Observatoire de Meudon, is known and respected worldwide for her significant contributions to the study of planetary atmospheres and surfaces in the outer Solar System and beyond. She has made significant achievements through her research using ground-based observations and her involvement in international space missions. She has uncovered new knowledge of outer Solar System objects (Saturn, Jupiter, and their icy moons) with a particular emphasis on Saturn's moon Titan. She contributed in a distinctive way through her role in space missions as Co-investigator of three instruments on the Cassini/Huygens mission and currently as Co-investigator on the JANUS camera on the JUICE mission. She is also involved in future space missions that will explore exoplanets, e.g. as Co-investigator of the upcoming ARIEL mission. She earned respect as a scientist authoring and co-authoring more than 180 refereed publications, as a book author, and as Chair of the Panel for Planetary Protection (PPP) of the Committee on Space Research (COSPAR). She excelled in research management and services to the community. She held numerous positions on committees in Europe and the United States. Among them are the Chair of the Human Exploration and Science Advisory Committee (HESAC) of the European Space Agency, the Chair of the European Science Foundation Space Sciences Committee (ESF/ESSC), the President of the EGU Division for Planetary Sciences and the Vice-Chair of the Europlanet Society. In summary, Athena Coustenis is a role model in her research field and a great ambassador for the EGU.

The 2023 Vening Meinesz Medal for outstanding research achievements in the field of geodesy was awarded to **Jürgen Müller**, President of the IUGG National Committee for Germany (since 2011), from the Institute of Geodesy, Leibniz University of Hannover, Germany.

The medal is named after the Dutch geophysicist and geodesist Felix Andries Vening-Meinesz. With this award, the EGU honours Jürgen Müller's scientific leadership in the field of Lunar Laser Ranging and the test of general relativity, as well as his contributions to advancing the field of geodesy, especially in the use of quantum technology for novel applications and measurement concepts. With the latter, also the activities of the IAG Project 'Novel Sensors and Quantum Technology for Geodesy (QuGe)' have been acknowledged. Prof. Müller currently serves as Chair of the IUGG General Assembly 2023 Scientific Program Committee.



*Annette Eicker (HCU Hamburg),
President of EGU Division
Geodesy, presents the medal to
Jürgen Müller
(photo: Sieglinde Müller)*

Harald Schuh from the German Research Centre for Geosciences (GFZ) in Potsdam, Chair of the IUGG General Assembly 2023 Local Organising Committee and former IAG President, stated the following in his laudation: ‘Jürgen Müller inimitably bridges the gap between physics and geodesy, where ground-breaking developments are transferred into geodetic applications. In his current research, he is working on using recent advances in quantum technology and optical clocks to improve measurements of the Earth’s gravity field and its changes in space and time. A project that has the potential to revolutionise our understanding of the Earth’s time variable gravity field.’

The award ceremony took place on 26 April 2023 during the General Assembly of the European Geosciences Union in Vienna. With around 18,000 members, the EGU is the leading organisation for Earth, planetary and space science research in Europe. Together with partner organisations worldwide, it fosters fundamental geoscience research, alongside applied research that addresses key societal and environmental challenges with the aim to realise a sustainable and just future for humanity and for the planet.

International Association of Cryospheric Sciences (IACS)

Veronica Tollenaar (Belgium) and ***Yixi Zheng*** (UK) are awarded the 2023 IACS Early Career Scientist Awards.

International Association of Geomagnetism and Aeronomy (IAGA)

Nils Olsen (Denmark) is awarded the 2023 Shen Kuo Medal for Interdisciplinary Achievements. ***Miroslav Hanzelka*** (Czech Republic) and ***Bram Vaes*** (Netherlands) are awarded the 2023 IAGA Early Career Scientist Awards.

International Association for the Physical Sciences of the Oceans (IAPSO)

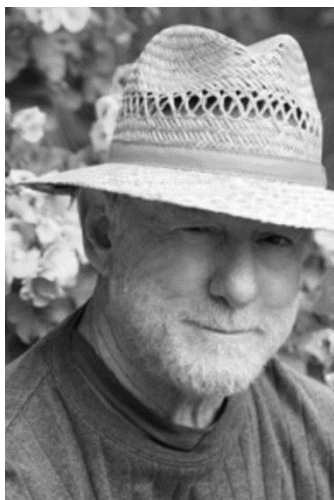
John A. Church (Australia) is awarded the Prince Albert I Medal. ***Malte F. Stuecker*** (USA) is awarded the 2023 IAPSO Early Career Scientist Medal.

The Association Awards will be presented during the IUGG General Assembly 2023.

Congratulations!

9. Obituaries

David D. Jackson (1943-2023), IUGG Bureau Member 2007-2011



*David D. Jackson
(photo provided by Kathy
Jackson)*

David D. Jackson, Emeritus Professor at the University of California-Los Angeles (UCLA), passed away on 30 March 2023 in Pacific Palisades, California. Professor Jackson graduated from Caltech in 1965 in Physics, followed by a PhD in Geophysics at MIT in 1969. He joined the faculty at UCLA starting in 1969 and retired as a Distinguished Professor in 2011. He was elected a Fellow of the American Geophysical Union in 1993. He served as Director of the Southern California Earthquake Center 1996-1999.

Prof. Jackson served on the U.S. National Committee for IUGG from 1995 to 2007, as Committee Chair 1999-2003 and Committee Secretary 2003-2007. He served on the IUGG Finance Committee 2003-2007 and the IUGG Bureau 2007-2011. Dr Jackson served as the IASPEI Liaison to the IUGG Georisk Commission 2007-2015.

A [memorial](#) by Paul Davis and Peter Bird contains this summary of Prof. Jackson's contributions:

'In his 54 years since arriving at UCLA in 1969, Professor Jackson rose to a position of national and international distinction that implicitly recognized the need for his careful statistical approach in assessing the likelihood of natural hazards such as earthquakes, as well as his preeminence in this area. His nomination to leadership positions in the foremost world organization in geophysics (IUGG), his contributions to the State of California's earthquake preparedness and insurance issues, to the University in the Geosciences and Environmental Sciences initiatives, and his contributions to the morale of staff, students and faculty in the Department leave us a legacy of intellectual rigor, dedicated energy, and human warmth which will be a model for the next generation.'

An additional [remembrance](#) has been posted by Dr. Ross Stein of Temblor, Inc., scientist emeritus at the U.S. Geological Survey.

Prof. Jackson is survived by his wife Kathy Jackson and children Kelly and Morgan. The family encourages donations in Dave's memory to the [Hertz Foundation](#).

Pricilla Grew, Member of the IUGG Finance Committee (2019-2023)

Ilya Zaliapin (1973-2023), Secretary, Union Commission on Mathematical Geophysics (CMG) since 2013

Professor Ilya Zaliapin passed away on 2 May 2023 in Reno, Nevada, at the age of 50. He is survived by his wife Elena and two sons. Professor Zaliapin graduated in Mathematics (Probability and Statistics) at the Lomonosov Moscow State University in 1995, followed by a PhD in Mathematics and Physics at the Russian Academy of Sciences in Moscow in 1999. He spent several years in the University of California at Los Angeles (UCLA), initially as a postdoc (1999-2001) in the group of Professor Vladimir I. Keilis-Borok, and then as Assistant Researcher at the UCLA's Institute of Geophysics and Planetary Physics (2001-2006). Ilya moved to the Department of Mathematics and Statistics, University of Nevada at Reno (UNR) in 2006 as Assistant Professor and was promoted to Associate Professor in 2009 and full Professor in 2016. He held the positions of Vice Chair of the Department and Director of the UNR Graduate Program in Statistics and Data Science between 2015 and 2023.



Ilya Zaliapin

The primary research field of Ilya Zaliapin was in statistical seismology, with a focus on preparation processes of large earthquakes, understanding the limits of earthquake predictability, development and assessment of operational earthquake forecast methods, and identification and classification of earthquake clustering, including declustering techniques. His work combined development of novel statistical techniques, analysis of high-quality earthquake catalogs, data from laboratory fracturing experiments, and physical modelling to improve the ability to understand the preparation process of large failure events. His studies also covered the emergence of scaling laws and extreme events in hierarchical geophysical systems, including geomorphologic (river and delta stream networks) and lithospheric systems. Methodologically, his research interests were in applied probability and statistics, with a focus on random self-similar trees and networks, that describe earthquake clusters or river networks, coalescent and branching stochastic processes, random sums of heavy-tailed variables, and multiscale methods of time series analysis. Many of the above results in statistical seismology and river networks are rooted in the theory of random self-similar trees co-developed by Ilya Zaliapin during the past decade. The theory synthesises mathematical rigour and flexibility to explain multiple symmetries and structural constraints discovered in dendritic systems of hydrogeomorphology, seismology, phylogenetics, and neurobiology.

Ilya Zaliapin played notable scientific leadership roles via his various professional services, including the American Geophysical Union (AGU) and IUGG. He was an inaugural Secretary of the AGU Section on Natural Hazards, and helped immensely in establishing this Section in 2009-2012, and since 2016 was an JGR's Associate Editor. Ilya was Secretary of the IUGG Commission on Mathematical Geophysics since 2013 and significantly contributed to organisation and success of four IUGG Conferences on Mathematical Geophysics held in Mexico (2014), France (2016), Russia (2018), and the Republic of Korea (2022). He co-convoked international workshops in Italy, Mexico, South Africa, and USA, and many special sessions and symposia at AGU, IUGG, and other national and international meetings. Professor Zaliapin was a trailblazer in mathematical and statistical geophysics. His research achievements were stunning, and his original works earned him international recognition and stature. When the history of modern mathematical and statistical geophysics comes to be written, Ilya Zaliapin's pivotal work will be praised as a landmark. We lost a bright mathematician and scientist, excellent colleague, good friend, and a very kind person.

Alik Ismail-Zadeh, Chair of the IUGG Commission on Mathematical Geophysics

10. Meeting Calendar

This calendar includes meetings which are planned to be organised in the next three months under the umbrella of IUGG, and major conferences of IUGG's partner organisations. The calendar is updated regularly and is also available [online](#). If you would like to add a meeting, or report changes, please contact the [IUGG Secretariat](#).

June

- 5-6, IYBSSD22, Online, [Basic Sciences for Sustainable Development. 24-hour Online Meeting](#)
- 12-15, AGU, Washington DC, USA, [Chapman on Climate and Health in Africa](#)
- 13-14, GEO, Geneva, Switzerland, [GEO Symposium 2023](#)
- 19-23, CTBTO, Vienna, Austria, [CTBT: Science and Technology \(SnT2023\)](#)
- 21-19 July, GFZ, Potsdam, Germany, [International Training Courses on Seismology and Seismic Hazard Assessment](#)
- 26-30, IAMAS, Brisbane, Australia, [International Conference of Nucleation and Atmospheric Aerosol \(ICNAA\)](#)

July

- 3-7, IACS, IUGG, Gävle, Sweden, [2023 Glacial Isostatic Adjustment Training School](#)
- 3-7, IASPEI, ILP, GFZ, Potsdam, Germany, [Heat Flow Summer School 2023](#)
- 3-7, ICTP, EAIIFR, IUGG, Kigali, Rwanda, [Joint ICTP-EAIIFR-IUGG Workshop on Computational Geodynamics: Towards Building a New Expertise Across Africa](#)
- 8-9, IASPEI, ILP, GFZ, Potsdam, Germany, [Workshop on Heat Flow in Antarctica](#)
- 10-11, IASPEI, ILP, GFZ, Potsdam, Germany, [Workshop on Heat Flow in Africa, South- and Central America](#)
- 10-11, IAHS, GFZ, Potsdam, Germany, [Panta Rhei Symposium](#)
- 11-20, IUGG, Berlin, Germany, [IUGG General Assembly 2023](#)
- 12-13, GFZ, Potsdam, Germany, [International Training course on ocean bottom and amphibian experiment seismological data](#)
- 14-20, INQUA, Rome, Italy, [21st INQUA Congress](#)
- 20-22, IAGA, Neustrelitz, Germany, Workshop on Current Challenges in Data Assimilation for Geospace Systems
- 24-27, IUGG, IASPEI, IAVCEI, Nyeri, Kenya, [1st International Workshop of the Network for African Volcanologists](#)
- 30-4 August, Singapore, [AOGS Annual Meeting 2023](#)

August

- 2-4, UNGGIM, New York City NY, USA, 13th Session of the United Nations Committee of Experts on Global Geospatial Information Management
- 5-12, IAMG, Trondheim, Norway, [22st Annual Conference of the International Association for Mathematical Geosciences](#)
- 13-18, ICA, Cape Town, South Africa, [31st International Cartographic Conference](#)
- 19-26, URSI, Sapporo, Japan, [35th URSI General Assembly and Scientific Symposium](#)
- 28-5 September, IAVCEI, São Miguel, Azores, Portugal, [IAVCEI-CVL11 Workshop on Volcanic Lakes](#)

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