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June 2025

INTERNATIONAL ASSOCIATION OF VOLCANOLOGY AND CHEMISTRY OF THE EARTH'S INTERIOR

IAVCEI

This Newsletter is intended to keep IAVCEI Members and individual scientists informed about the activities of the Association and its bodies, and the actions of the IAVCEI Executive Committee. Past issues are posted on the IAVCEI website. Your comments are welcome. The IAVCEI Newsletter may be forwarded to non-members who may benefit from the information.

AWARD AND MEDAL

Lionel Wilson

Thorarinsson Medal

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IAVCEI Award and Medal recipients – 2025

https://sa2025.iavceivolcano.org/

Three medals and one award will be given during our Scientific Assembly in Geneva. **The awards ceremony will be held as part of the Meeting of Members which begins at 18h00 on Wednesday 2 July** (at the Bâtiment des Forces Motrices – Place des Volontaires 2, 1204 Genève, Switzerland). *Please do attend so as to congratulate all four of our 2025 awardees!*

We are happy to announce this year's awardees, and here provide a biography of each so that you can enjoy the ceremony with knowledge as to their achievements.

The four awards will be:

The **Thorarinsson Medal** (https://www.iavceivolcano.org/guidelines-for-iavcei-awards/thorarinsson-medal/) honors Professor Sigurdur Thorarinsson. Professor Thorarinsson is known for his pioneering work in volcanology, especially tephrochronology of Iceland. The medal was donated by the Iceland Geoscience Society, and is the most senior medal of IAVCEI. It is given every four years at the IAVCEI Scientific Assembly. This year the medal will go to **Lionel Wilson** from the University of Lancaster (UK).

The **Fisher Medal** (https://www.iavceivolcano.org/guidelines-for-iavcei-awards/fisher-medal/) honors Professor Richard V. Fisher (University of California Santa Barbara). Professor Fisher is known for his pioneering work on pyroclastic density currents. He developed models for transport and deposition based upon very carefully described stratigraphic sections and sedimentological properties of the deposits. The medal is given every 4 years at the IAVCEI Scientific Assembly. This year the medal will be awarded to **Paraskevi "Evi" Nomikou** from National & Kapodistrian University of Athens (Greece).

The **Wager Medal** (https://www.iavceivolcano.org/guidelines-for-iavcei-awards/wager-medal/) honors Professor Lawrence Rickard Wager. Professor Wager is best known for the discovery of the Skaergaard layered intrusion and the first detailed structural, mineralogical and petrological study of such intrusions. The medal is given every two years to a scientist up to 15 years after Ph.D. At the 2025 SA the medal will be awarded to **Teresa Ubide Garralda** from the University of Queensland (Australia).

IAVCEI's **George Walker Award** (https://www.iavceivolcano.org/guidelines-for-iavcei-awards/george-walker-award/) honors Professor George Walker. Professor Walker's discoveries pioneered a modern quantitative approach to physical volcanology and greatly accelerated the understanding of volcanic processes. The award is given every 2 years to a scientist up to 7 years after Ph.D, and this year goes to **Claire Harnett** from University College Dublin (Ireland).

Congratulations to each and every one of you!

Thorarinsson Medal: Lionel Wilson

Lead nominator:	Steve Sparks (University of Bristol, UK)
Supporting nominator:	Claude Jaupart (Université Paris-Diderot, France)
Supporting nominator:	Augusto Neri (INGV-Pisa, Italy)
Supporting nominator:	James Head (Brown Planetary Geosciences, USA)
Citation to be read by:	Steve Sparks

Lionel in the field

Lionel Wilson obtained his B.Sc. in physics from the University of Birmingham in 1965. He moved immediately to a Ph.D. project at the University of London, investigating the mechanical properties of the surface of the Moon, completing the Ph.D. in 1968. This work was carried out just prior to the first of the Apollo lunar landings, and it was the recognition, in images used for selecting the Apollo landing sites, of lava flows on the Moon that focused his research interests on volcanic processes. After a two-year post-doc position at Imperial College London, during which he developed a research programme on terrestrial explosive volcanism with George Walker, in 1970 he was offered a Lectureship in the Environmental Science Department of Lancaster University. He has remained based at Lancaster since then, as Senior Lecturer in 1984 and Professor in 1988. Lionel's early work continued to focus on large-scale explosive activity on Earth, much of it in collaboration with Steve Sparks, then a post-doctoral researcher at Lancaster.

In 1978 Lionel began a collaborative research program on planetary volcanism with James Head at Brown University and has been a visiting professor more or less continuously at Brown since then, working on the analysis of data from NASA missions to Mercury, Venus, Mars, Jupiter's satellite Io and our Moon. In 1984 he first visited Hawai'i, attracted by the long series of eruptions at Kilauea's Pu'u'o'o vent on the Big Island that had begun the year before. He began a long-term research programme at the University of Hawai'i, commonly spending up to 4 months there each year as a visiting professor. In addition to using the Kilauea's eruptions to gain insights into the fundamental physics of basaltic volcanism, which is by far the commonest eruption style on all rocky bodies in the Solar System, he worked specifically on Martian volcanism with Peter Mouginis-Mark and on volcanism on the early-forming differentiated asteroids with Klaus Keil and Cyrena Goodrich. Lionel's links with Hawai'i and Brown continue, but travel restrictions imposed first by COVID-19, and more recently by health problems, mean that his interactions are now most commonly via the internet.

Professor Lionel Wilson, who specialises in studying volcanic activity on Mars, the Moon and Venus. Photo: Guardian/Don McPhee

Lionel in the lab

The common theme through most of Lionel's work has been that studying volcanic processes on planetary bodies other than Earth, where the environmental boundary conditions such

as atmospheric pressure and acceleration due to gravity are very different, forces us to start from first principles to understand the underlying physics. The same eruptive process acting in differing environments can produce markedly different eruptive products, and so eruptions should be categorised by process not product. The desire to stress these ideas led to him collaborating with his ex-graduate student, Elisabeth Parfitt, in writing the 2008 book "*Fundamentals of Physical Volcanology*"; a second edition, now additionally co-authored by Laura Kerber, is currently in press.

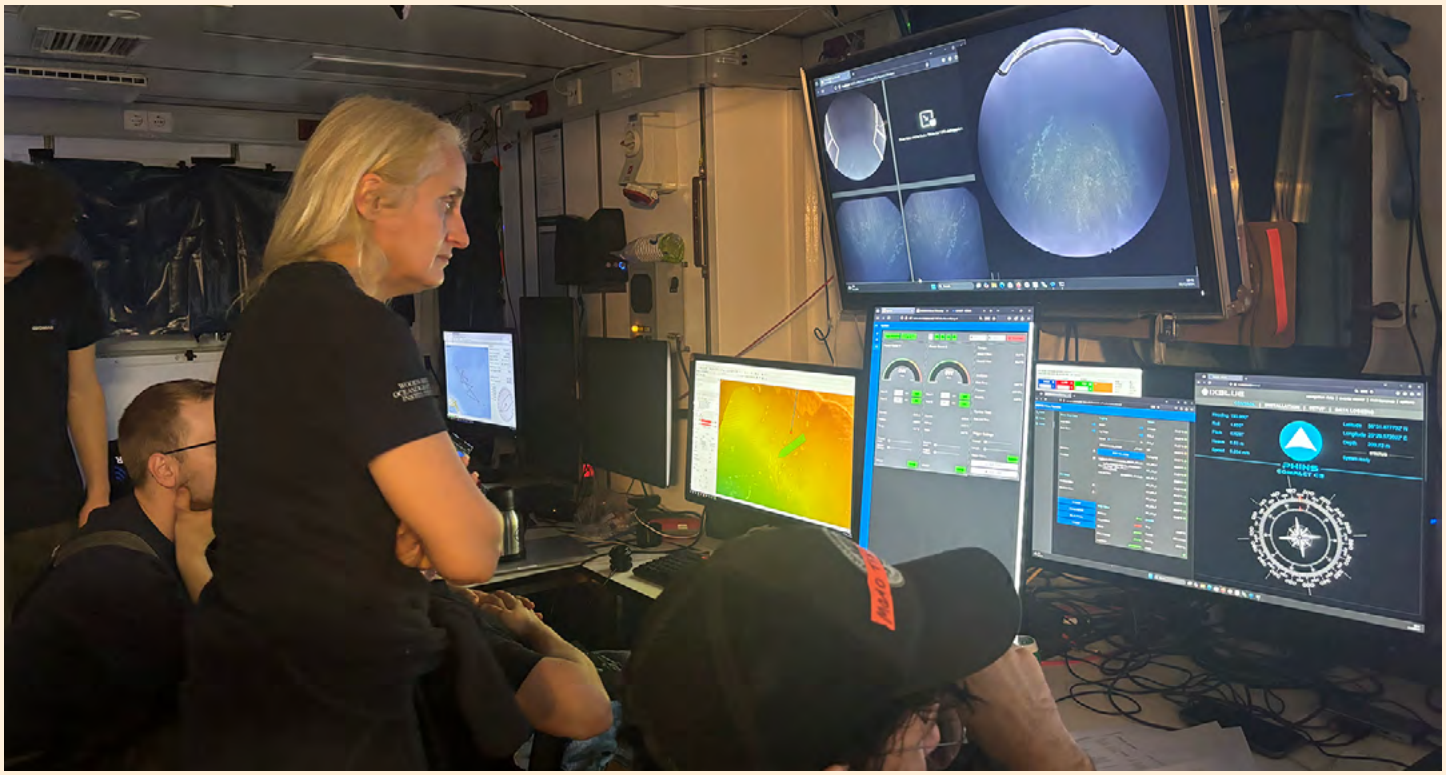
From 1990 to 2016 Lionel was the editor, later co-editor as the journal grew, of the *Journal of Volcanology and Geothermal Research*. This service to the volcanology community was recognised by IAVCEI in 2023 with an Honorary Life Membership award. Lionel also received the N.I. Bowen Award of the Volcanology, Geochemistry and Petrology Section of the American Geophysical Union in 1983 and the Gilbert Award of the Planetary Geology Division of the Geological Society of America in 2005. Lionel continues to be involved in analyzing data from current planetary missions and defining problems to be addressed by future missions.

Fisher Medal: Paraskevi (Evi) Nomikou

Lead nominator:	Michael Manga (University of California, Berkeley, USA)
Supporting nominator:	Christian Huebscher (Universität Hamburg, Germany)
Supporting nominator:	Steffen Kutterolf (Universität Kiel & GEOMAR, Germany)
Supporting nominator:	Rebecca Carey (University of Tasmania, Australia)
Citation to be read by:	Christian Huebscher

Professor Paraskevi (Evi) Nomikou is a geologist whose career has been defined by hands-on exploration of the morphology of underwater volcanoes, with extensive experience in marine volcanic and seafloor extruding processes (https://paraskevinomikou.weebly.com/). She is a Professor of Geology at the National and Kapodistrian University of Athens and one of the world's leading experts in the study of submarine volcanic morphology, tectonics, and pyroclastic and hydrothermal processes on the seafloor (https://schmidtocean.org/person/paraskevi-nomikou/).

With more than 80 oceanographic cruises under her belt, Professor Nomikou has led field-based investigations across the Hellenic Arc, focusing particularly on Kolumbo seamount, Santorini, Milos, Nisyros, and Methana—regions that host some of the most active and hazardous volcanic systems in Europe. Her work relies on seafloor mapping, submersible dives, in situ sampling, and geophysical data collection, all rooted in the observational tradition that defined the legacy of Richard V. Fisher.



Evi at sea

As the PI of SANTORY (SANTORini seafloor's observatorY), she established the first long-term monitoring observatory at the Kolumbo submarine volcano. Her research has provided crucial insights into the 2011–2012 and 2025 seismo-volcanic crises in Santorini, improving our understanding of the processes that precede explosive underwater eruptions and how deformation signals relate to volcanic hazards. Her studies on underwater volcanic areas where new earthquakes and deformation have been taking place are critical to the ongoing evaluation of future submarine eruption scenarios.

She has been a driving force behind international collaborations, participating in over 70 EU and US-funded research projects. Her impact on the field is further highlighted by her extensive publication record in peer-reviewed journal. These collaborative projects have fostered lasting partnerships with premier institutions and universities across Europe and the United States.

Professor Nomikou's excellence has been formally recognized through multiple prestigious honours. She received the Athens Academy Award in 2017 (Konstantinos Ktenas Award) for her publication in Nature Communications on the geology of Greece. In addition, she was awarded the Geological Society of Greece Prize in 1998 and received field research grants from IGCP585 to attend the European Geosciences Union (EGU) General Assemblies in 2012 and 2013. Her role in fostering international cooperation in volcanology earned her awards under bilateral scientific agreements between the Education Ministries of Turkey and Greece in 2015, and Hungary and Greece in 2017. Most recently, she was awarded both the EGU Geoscience Day Grant and the EGU Higher Education Teaching Grant in 2023.

She has served as Commission Leader of the International Commission on Submarine Volcanism since 2017, and as Science Officer for EGU's Natural Hazards Volcanic Hazards Division from 2017 to 2020. In 2023, she organized the EGU Geoscience Day in Nisyros and Santorini, dedicated to increasing awareness of volcanic risks and engaging local communities.

In parallel to her scientific research, Professor Nomikou has been an influential figure in volcanology education and outreach. She organizes annual summer schools for university students in Milos, Nisyros, and Santorini, and conducts field education programs for high school students in Santorini and Nisyros. She was the lead organizer of Cities on Volcanoes 11, held in Heraklion, Crete, which brought together global experts to advance the dialogue on volcanic risk mitigation. During IODP Expedition 398, she led a remarkable initiative that connected nearly 5,000 students worldwide to real-time seafloor drilling activities via live broadcasts and held a week-long workshop on the island to educate local students in advance of the expedition.

In addition, Professor Nomikou has conducted dives with submersibles into the submarine calderas and active hydrothermal systems of Methana, Nisyros, the Santorini caldera, and Kolumbo, conducting high-resolution mapping and geological sampling from the sea floor. She is also the Scientific Coordinator of the UNESCO Nisyros Aspiring Geopark, where she promotes sustainable geotourism, education, and hazard awareness. Her work has reached the public through participation in over 50 international documentaries, including productions by National Geographic, Cosmote History, Discovery Channel, History Channel, Mare TV, Arte TV, Travel Channel, and ZDF. Since 2000, she has contributed to more than 150 interviews in Greek newspapers and tourism guides, and over 50 international online features, raising awareness of the geological processes and hazards in the Kolumbo and Santorini volcanic fields.

Evi leading a field school

Professor Nomikou's lifelong dedication to the volcanoes of her birthplace, Santorini, is a deeply personal motivation for her scientific mission:

"*I was born in one of the most active volcanoes in the world, Santorini, and from a young age I wanted to understand the dynamics of volcanoes and how to help the residents in the event of a possible eruption. My wish was to explore the underwater volcano of Kolumbo… and by studying geology I managed to turn my dream into reality. By dealing with the recent earthquake crisis in Santorini I understood how important it is to transfer our knowledge to the people and offer them safety with our findings*."

Through her unwavering commitment to field-based research, public education, and international collaboration, Professor Nomikou exemplifies the spirit of Richard V. Fisher's legacy. Her contributions have not only deepened our understanding of submarine volcanism, but also strengthened the vital bridge between scientific discovery and societal resilience.

The Wager Medal: Teresa Ubide

Lead nominator:	Olivier Bachmann (ETH, Switzerland)
Supporting nominator:	Fidel Costa (Institut de Physique du Globe de Paris, France)
Supporting nominator:	Chiara Maria Petrone (Natural History Museum London, UK)
Supporting nominator:	Silvio Mollo (Sapienza University of Rome, Italy)
Citation to be read by:	Olivier Bachmann

Teresa Ubide is a volcano petrologist who moved to Australia in July 2016 to take up a faculty position (currently: Associate Professor) with the School of the Environment at the University of Queensland (https://about.uq.edu.au/experts/15355). She was born and raised by the sea, in San Sebastián (Spain), and is fortunate to study a wide range of active and past volcanic systems with diverse collaborative teams in different tectonic settings around the world. Teresa undertook her post-graduate research between Spain and The Netherlands (Vrije Universiteit Amsterdam), and was awarded her PhD from the University of Zaragoza in December 2013. Teresa then carried out her post-doctoral work at Trinity College Dublin (Ireland) between 2014 and 2016.

At the University of Queensland, Teresa has been active in developing high-resolution geochemical techniques to interrogate magmatic crystals and their carrier melts, thus providing a better understanding of magma transport through, and storage in, the Earth's upper mantle and crust. Her research constrains magmatic processes in space and time, with a particular focus on the drivers of volcanic eruptions and the processes that accumulate critical metals for the green energy transition.

In 2023, Teresa was awarded the Anton Hales Medal for her research in Earth Sciences from the Australian Academy of Science. She is a Future Fellow of the Australian Research Council, and her contributions and leadership in volcanology have also been acknowledged by many invited keynote presentations, technical workshops and seminars. Recently, she led-authored the chapter on '*Petrological characterisation of magma storage*' for The Encyclopedia of Volcanoes third edition.

Teresa in the lab

Teresa in the field

The George Walker Award: Claire Harnett

Lead nominator:	Michael Heap (University of Strasbourg, France)
Supporting nominator:	Valentin Troll (Uppsala University, Sweden)
Supporting nominator:	Jamie Farquharson (University of Niigata, Japan)
Supporting nominator:	Alexandra Kushnir (EPFL, Switzerland)
Citation to be read by:	All

Dr Claire Harnett is an Associate Professor of Volcanology and the lead of the Geohazards Research Group at University College Dublin (https://people.ucd.ie/claire.e.harnett). She earned her undergraduate degree from the University of Portsmouth in 2015 and completed her PhD at the University of Leeds in 2019. Her research focus is primarily numerical modelling of volcanic environments, particularly dynamic stability, in a range of volcanic contexts (https://www.claireharnett.net/).

Claire in the field, Tenerife

Trained in rock mechanics, Dr Harnett's work centres on volcano stability and hazard, with a particular interest on the intersection of engineering and volcanology. Her approach integrates quantitative modelling with geomechanical insight, enabling the simulation of complex volcanic processes. Key research topics so far include:

(1) Extrusion, growth, and internal structure of volcanic domes;
(2) Dome collapse mechanisms and their resultant hazard;
(3) Hydrothermal alteration during periods of quiescence and increased hazard outside of active eruptions;
(4) Reactivation of quasi-static volcanic systems such as collapse calderas; and
(5) Mechanical properties of volcanic rocks and their variability through time, space, and scale.

A central contribution of Claire's work is the development of models that simulate non-elastic responses of volcanic host rock, allowing analysis of damage across multiple scales. This approach is especially relevant for lava dome collapse, where Claire's models can account for a wide range of outcomes – from minor rock falls to large-scale flank failure. Her modelling framework emphasises emergent damage behaviour based on mechanical and geometric parameters, reducing reliance on predefined assumptions.

Claire in the lab

Since 2024, Dr Harnett is one of four PIs leading an ERC Synergy Grant entitled ROTTnROCK: Assessing the role of hydrothermal alteration on volcano morphology, instability, and unpredictable volcanic hazards. She will lead the UCD team, alongside teams at GFZ Potsdam (Germany), EOST (Strasbourg, France), and UU (Uppsala, Sweden) to combine remote sensing, rock physics, geochemistry, and computational modelling in the context of altered volcanoes. Dr Harnett currently supervises five PhD students and one postdoc.

SECTION 1. IAVCEI – WHO WE ARE AND WHAT WE DO

1.1 IAVCEI Commission and Network Updates

Commission and Network activities at the IAVCEI Scientific Assembly
June 29 – July 4, 2025, Geneva (Switzerland)

The opening ceremony of the Scientific Assembly on 29 June at 16h00 (CET) will include short (1–2 minute) presentations by our commissions and networks. Commissions and presenters will be:

Cities and Volcanoes	Natalia Deligne
Early-Career Researchers Network	Alex Iezzi
Monogenetic Volcanism	Marie-Noëlle Guilbaud
Tephrochronology	Paul Albert
Volcanic Clouds	Simon Carn
Volcano Geology	Natalia Pardo Villaveces
Volcanic Hazards and Risk	Shinji Takarada
Volcanic Health Hazard Network	Ines Tomašek
Volcano-Ice Interaction	Linda Sobolewski
Volcanic & Igneous Plumbing Systems	John Browning
Volcanic Lakes	Jacopo Cabassi
Volcanogenic Sediments	Andrea Di Capua
Indigenous Volcanology	Cheryl Cameron
Volcano Geoheritage and Protected Volcanic Landscapes	Heather Handley
Tephra Hazard Modelling	Thomas Aubry

Posters will also be up for all of the week in the exhibiters area show-casing what each of our commission does. If you are or are not involved in one of these commissions or networks, and have something to say, please come by and listen to what they have to say, and then have a good chat with the relevant representative.

In addition, the following commission-specific events will be held at the conference center during June 29 – July 4:

Early Career Researchers mentoring and networking event
The IAVCEI Early Career Researchers Network (https://ecrnet.iavceivolcano.org/)

Join us on Monday 30 June between 19:00 and 21:00 at the conference center for a special mentoring and networking event designed to support and connect Early Career Researchers across IAVCEI. Senior researchers will lead informal discussions focused on career development, research pathways, and building confidence in volcanology. Snacks and drinks will be provided – *come for the mentoring, stay for the connections!* We look forward to seeing you in Geneva!

Indigenous Volcanology Network workshop invitation
Join Us at IAVCEI 2025 – Geneva

- Sunday, 29th June 2025
- 13:30–16:00 CET (with a coffee break at 14:45)
- IAVCEI General Assembly, Geneva, Switzerland (Hybrid format – onsite or online)

The Indigenous Volcanology Network (IVN) has entered an exciting phase of growth and development. Over the past year, our primary focus has been on expanding our global network and welcoming new members who share our vision of inclusive, collaborative, and culturally grounded volcanology. Our vision is to build a vibrant, supportive community where Indigenous knowledge systems are recognised as vital to understanding and living with volcanic landscapes. We aim to create safe, respectful spaces for sharing research, cultural perspectives, and experiences, while also providing a platform for peer support and collaboration.

As we look ahead, we are currently seeking expressions of interest from individuals who would like to be part of a founding leadership group. This team will help shape the direction of the network and coordinate a series of regular events and initiatives throughout the year—ranging from webinars and workshops to mentoring opportunities and community-led research dialogues. We hope these activities will foster meaningful exchange, empower Indigenous-led science, and strengthen partnerships worldwide.

This first informal workshop will thus focus on:

- Expanding our membership base;
- Identifying shared priorities across regions and disciplines;
- Forming an initial organising committee;
- Outlining a calendar of events and activities for 2025–2026.

We invite all current and prospective members to attend, contribute ideas, and help shape the future of the Indigenous Volcanology Network. *Whether you're a researcher, student, community leader, or ally–your voice matters, and your presence is valued!*

We look forward to connecting with many of you in Geneva or online, and to building a collaborative, inclusive, and inspiring future together. For more information or to express interest in joining the leadership group, please get in touch via email ivn@iavceivolcano.org.

Towards Inclusive Collaboration: Reflections and discussion on engagement in global volcanology

International Network for Volcanology Collaboration

https://involc.iavceivolcano.org/

The IAVCEI Scientific Assembly 2025 will be a pivotal moment for the International Network for Volcanology Collaboration (INVOLC), as we will be seeking volunteers for positions on the elected board and advisory board for the coming four years. Elections will be held soon after the Assembly, in July 2025, together with a call for wider voluntary membership. To present and reflect on INVOLC's mission and ambitions, we will organise a mid-conference workshop "Towards Inclusive Collaboration: Reflections and discussion on engagement in global volcanology". During this interactive workshop, a series of papers and case studies will be discussed, and participants will be encouraged to reflect on engaging in (international) collaborations, and on some key priorities and activities that INVOLC should support. For more information on INVOLC refer to https://involc.iavceivolcano.org/ or contact us at: iavcei.involc@gmail.com.

CAV Commission meetings and gatherings during the Scientific Assembly

Cities and Volcanoes Commission

https://citiesonvolcanoes.wordpress.com/

Join us on Tuesday 1 July from 13:30–14:10 in Room S160 for our *annual Cities and Volcanoes Commission meeting* (food not allowed in room; eat your lunch before). This is an opportunity to meet with and provide feedback to the CAV leadership. The main agenda items are:

a) CAV2026: Global Volcano Communities series of events that will happen next year in lieu of COV13 (see section 2.3),
b) Information about the call and proposal process for COV14, and
c) general updates.

On Thursday 3 July from 13:40–14:10 in Room S160 we will also be holding a meeting of the *CAV Ash and Gas Impacts Working Group* (again, food not allowed in room; eat your lunch before). The working group focuses on understanding and mitigating the impacts of volcanic ash and gas. We prepare volcano-hazard educational material for the benefit of those dealing with active and erupting volcanoes.

Finally, please join us for an informal *celebration of the life of Distinguished Professor David Johnston*. This will be held on the evening of Thursday 3 July where we will gather to celebrate the life of our co-founder, Distinguished Professor David Johnston, who passed away in January. Details will be provided at both the commission and working group meetings.

Please also think about attending the three sessions co-sponsored by CAV:

- Session 6.1 Volcanic impacts on climate and societies (Monday 8:30–10 in Room R290, 16:30–18:30 in Poster Hall)
- Session 7.2 The role of volcanologists in communicating hazard and risk for decision making (Monday 10:30–11:30 and 14:15-15:15 in Room R380, 16:30–18:30 in Poster Hall)
- Session 6.7 Advances in volcanic hazard and risk assessments and the quantification of associated uncertainties (Friday 8:30-10 in Room S160, 16:30–18 in Poster Hall)

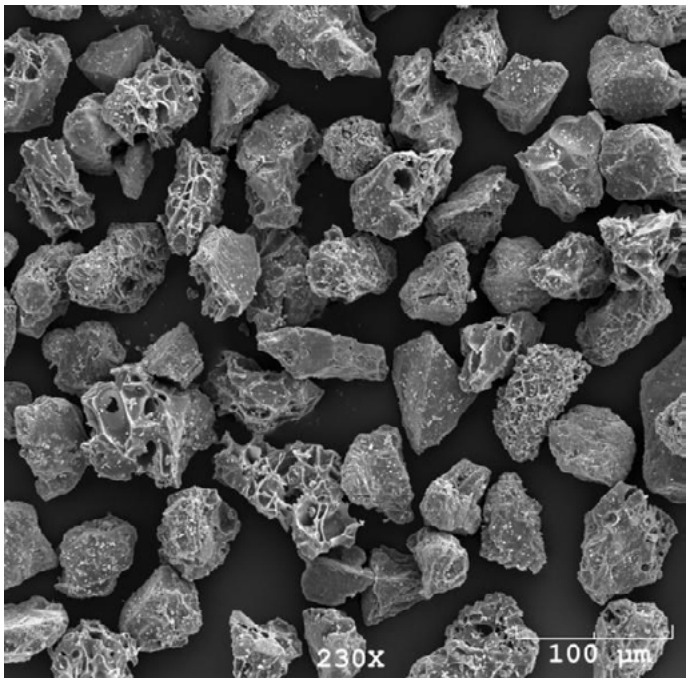
All are warmly welcomed to all CAV events!

Grain size: Have we lost the plot?

IAVCEI Tephra Hazard Modeling Commission

https://thm.iavceivolcano.org/

Despite the increased focus on numerical modeling and sophisticated instrumentation, grain size analysis remains an essential part of physical volcanology. On Sunday 29 June, more than 50 scientists will gather for a half-day workshop of the IAVCEI Tephra Hazard Modeling Commission to discuss results from a global inter-laboratory comparison of grain size methods and address the future of this fundamental technique.



Ash from Redoubt's 2009 eruption (Tom Kircher)

The Volcano Geology Gathering

IAVCEI Volcano Geology Commission

https://volcanogeology.iavceivolcano.org/

The IAVCEI Volcano Geology Commission (VGC) will be hold a gathering on Wednesday 2 July at 4:00 pm in the conference center. Please do come along to check out our recent activities and discuss future plans! We're particularly keen to discuss ideas from our members regarding the VGC global webinar series, a GIS with published maps, advances on the current proposal for our next workshop in Japan, and a new book published through Geological Society of London Special Publications. We hope to see you in Geneva!

At the IAVCEI Volcano Geology Commission we encourage discussion and development of field-based geological methods integrating diverse tools to enhance our understanding of volcanic systems through mapping, stratigraphy, sedimentology, remote sensing and much more

Tephra Hazard Modelling Meeting

IAVCEI Tephra Hazard Modelling Commission

https://thm.iavceivolcano.org/

The Tephra Hazard Modelling commission will be meet at the IAVCEI General Assembly on the lunchtime of Tuesday 1 July. Come along to meet the commission leaders and hear about the activities we have carried out and supported in the last few years, as well as what we have planned coming up. Additionally, we are keen to hear from you about what you would like to see the commission achieve going forward. *Keep an eye out on the conference schedule for exact timings and room location!*

Volcano Seismology and Acoustics Meeting

IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics

https://www.iavceivolcano.org/event/iaspei-iavcei-inter-association-commission-on-volcano-seismology-acoustics/

The joint IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics will hold an informal meeting during the IAVCEI Assembly in Geneva on Monday, June 30th at 17:00. In this meeting we will discuss ongoing initiatives and launch the process to widen and refresh the leadership team of the commission. This process will be finalised and implemented during the next annual commission workshop in Pucon (Chile) during November 23rd through 29th, 2025.

Volcanogenic Sediments Meeting

IAVCEI Commission on Volcanogenic Sediments

https://cvs.iavceivolcano.org/welcome-to-commission-on-volcanogenic-sediments/

Interested in the research on all sedimentological aspects of volcanic phenomena? The Commission on Volcanogenic Sediments is waiting for you at lunchtime on Thursday 3 July to give you a brief introduction about its activities and discuss the future of our exciting volcanolo-sedimentological World! See you in Geneva!

Volcanic Hazards and Risk Meeting

Commission on Volcanic Hazards and Risk

https://cvhr.iavceivolcano.org/

CVHR will have a lunch time meeting from 13:30 to 14:10 on Thursday July 3 in room M1193. Discussion will cover recent and future activities, as well as the potential for new leaders. *Everybody who is interested in Volcanic Hazards and Risk is welcome to attend the meeting!*

Volcano Geoheritage and Protected Volcanic Landscapes Special Session

Volcano Geoheritage and Protected Volcanic Landscapes (VGPL)

https://vgpl.iavceivolcano.org/

The VGPL is excited to co-organise Session 7.1, "*From Indigenous Knowledge to Geoheritage: Strengthening Community Resilience and Public Engagement in Volcanic Regions*", at the upcoming IAVCEI 2025 Scientific Assembly. We encourage all attendees to join us for this important session, which will highlight how traditional knowledge, heritage values and community involvement can shape more resilient volcanic regions.

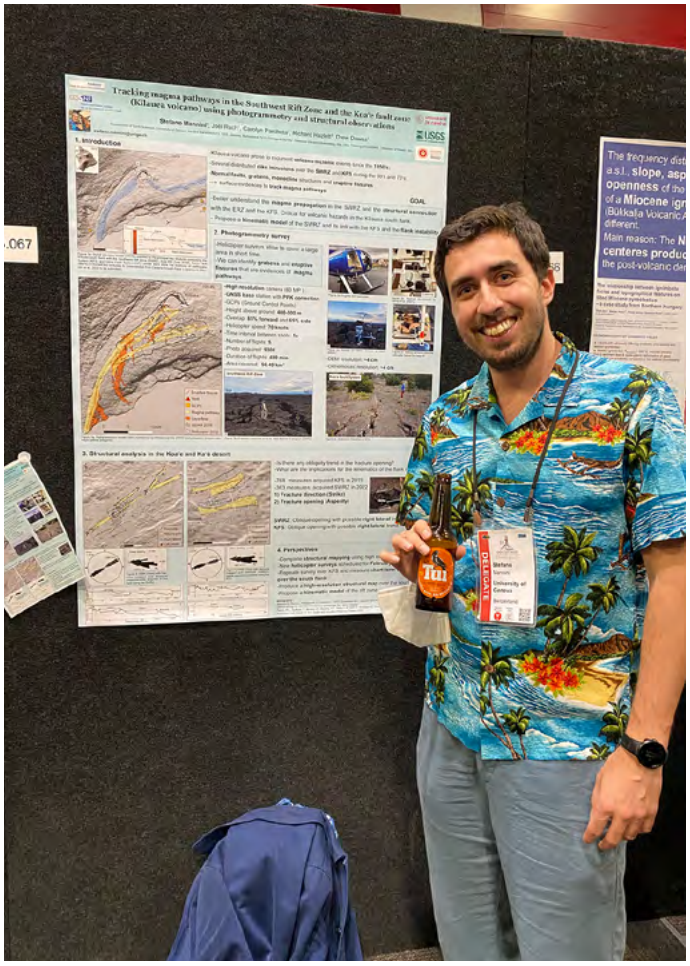
This year, the Commission is launching a global online seminar series, developing a dedicated website and social media channels, supporting the planning of Volcandpark 2026 in Sopron, Hungary, and actively contributing to the IUGS Geological Heritage Sites nomination process.

If you're attending IAVCEI 2025, come say hello to Commission representatives Heather Handley (h.k.handley@utwente.nl) and Károly Németh (k.nemeth@massey.ac.nz) at the Sunday icebreaker or during the conference. We welcome your participation, ideas, and collaboration. *If you're interested in joining the seminar series or learning more about our work, we'd love to connect* – get in touch and be part of the growing VGPL community!

Monogenetic Volcanism Special Session and Commission Meeting
Commission on Monogenetic Volcanism
https://cmv.iavceivolcano.org/

1.2 The Voice of IAVCEI Early Career Researchers

ECR profile: Stefano Mannini (University of Lausanne)
IAVCEI conference volunteer



Hi everyone!

I'm Stefano Mannini – originally from Milan, a city of business, finance, and … persistent rain. But I was actually born in Messina, Sicily: the land of sunshine, amazing food, and most importantly… volcanoes! Ever since I was a kid, I spent my summers on Vulcano Island (yes, **the** Vulcano, in the Aeolian Islands), and I guess staring at steaming fumaroles and smelling sulfur instead of sunscreen did something to my brain – because I eventually decided to become a volcanologist.

In 2015, after completing my bachelor's degree in Milan, I moved to Clermont-Ferrand, France – another volcanic hotspot (figuratively and geologically). I did my master's there and got involved in several research projects studying lava dynamics and gas emissions at volcanoes such as Piton de la Fournaise, Etna, and – of course – *Vulcano*. I collaborated with INGV, the University of Torino, and the University of Pittsburgh and I'm especially grateful to my former professor, Andrew Harris, who gave me the opportunity to discover the world of research and with whom I also shared another great passion: **football**.

Then, in November 2018, I began a new adventure in Switzerland. Despite the disappointing lack of nearby erupting volcanoes (as you'll see during the upcoming assembly in Geneva), I found a fantastic research environment at the University of Geneva. I joined the Volcano-Tectonics Lab led by Professor Joël Ruch, and together we investigated several aspects of deformation and flank instability at Kīlauea Volcano, Hawai'i. We focused on the Koa'e fault system – a fascinating and not-so-well explored region of the volcano – using various remote sensing techniques to investigate surface deformation and fault reactivation during volcano-tectonic events. Working alongside the Hawaiian Volcano Observatory and the University of Hilo, we published several studies showing how the Koa'e faults interact with magmatic intrusions and volcano-tectonic events. The use of drones was not permitted in that area of the Hawai'i Volcanoes National Park, so we had to get a bit creative. Thanks to a special platform provided by the University of Hilo, we conducted photogrammetry surveys from a helicopter. This platform allowed us to mount high-resolution cameras and GPS instruments below the helicopter. By acquiring detailed aerial imagery, we were able to generate new topographic models and compare them with pre-existing ones – providing valuable insights into surface changes and fault displacements over time.

Stefano at Hilo international airport waiting for his lift to Kilauea's SW rift zone

During my PhD, I also had the chance to take part in several field missions. The most exciting one was definitely to Iceland, in March 2021. After satellite data revealed significant ground deformation, my group leader made the quick decision to go – using special emergency funds reserved for imminent eruptions. Within 24 hours, we packed our gear (GPS units, a drone, and lots of thermal layers!) and headed to Grindavík. On our first night in the field, sleep was nearly impossible – we were right next to the epicentre of intense seismic activity, with earthquakes reaching magnitude 5. Of course, we were still in the middle of the COVID-19 pandemic, so we had to spend several days in isolation first – but honestly, that's not too hard to handle in Iceland! To make things even more epic, we were hit by two full days of blizzards and snow. In the days that followed, we carried out ground surveys and drone flights to capture the pre-eruption landscape before it would inevitably change. Then came the most unforgettable moment: on the very last evening, just as I was cooking a *Pasta alla Bolognese* for the team, one of us noticed that the dark sky was turning red – the magma had finally reached the surface. As you can imagine, we didn't fly home the next day. We extended our mission and I had the unique opportunity to witness an eruption up close, and to watch the birth of a brand-new volcano on the Reykjanes Peninsula.

Stefano at a Hornito during the first (March 2021) eruption of Fagradalsfjall, Iceland

Over the years, I've developed two main research axes: thermal analysis of eruptions and hydrothermal degassing, plus the study of ground deformation and fault reactivation during volcano-tectonic events. In both areas, I've always tried to combine multiple temporal scales (short- and long-term) and spatial scales (from satellite to ground-based observations). I find this multi-scale approach particularly valuable for capturing the complexity of volcanic systems and improving our ability to interpret ongoing processes – and maybe even anticipate what's coming next!

I'm currently working as a postdoctoral researcher at the University of Lausanne with the Institute des Sciences de la Terre (ISTE), where I'm continuing my research on Kīlauea – focusing in particular on the June 2024 eruption. This eruption occurred in the same region I studied during my PhD, and is where the last eruption had taken place back in 1974. Sometimes, researchers do manage to guess the right spot to study before things get exciting!

To wrap things up, if I could give a few pieces of advice to early-career researchers, I'd say: first, choose your supervisor wisely – it makes a huge difference in both your scientific growth and your personal motivation. Second, get out in the field as much as possible. For a job like ours, being on-site or next to an outcrop is essential to truly understand what's happening; some things just don't show up on a screen. And finally, start building your international network early on. Collaborations are not just helpful – they're essential baggage if you want to keep moving forward in research. Plus, they often lead to unexpected opportunities (*and friendships*) around the world! The upcoming IAVCEI conference in Geneva will be a perfect chance to put all of this into practice – I'll be there as a volunteer, and I'm really looking forward to meeting fellow researchers, discovering exciting projects, and expanding my scientific horizon. **Hope to see many of you there!**

Stefano on his way to IAVCEI 2023 in New Zealand … but thanks to severe flooding, a layover in Melbourne provided an unexpected upgrade: semifinals at the Australian Open!

Last but not least, I'd like to thank my former professors who gave me the chance to take part in amazing field missions and attend international conferences – opportunities that not only shaped my scientific path, but also allowed me to visit incredible places and make friends all over the world. I'm also deeply grateful to my parents and my wife, who have always supported me throughout this journey and patiently accepted my never-ending desire to travel the world in search of volcanoes … and to also witness diverse sporting events.

1.3 Insider Perspective: What's my job?

Marie-Anna Mysikova
Association Development Manager, GUARANT International
https://guarant.cz/en/association-management/

I believe that for a professional community to thrive, good organization alone isn't enough – consistent day-to-day care and a human approach matter just as much. And that's exactly what I've been striving to provide for IAVCEI.

I have been working at Association House (https://associationhouse.cz/en/home-english/) by GUARANT International for a year and a half. Alongside IAVCEI, I also support two medical professional societies. I truly enjoy this work – it brings me into daily contact with incredibly inspiring individuals who have achieved great things in their fields. It also gives me the opportunity to explore entirely different areas from my original background, and to gradually immerse myself in them. I especially appreciate how diverse this role is – each association has different needs and priorities, and that keeps my work dynamic, interesting, and fulfilling.

What does my work for IAVCEI include?

You – our members – are my top priority

I manage the entire membership database – from regular updates and handling individual requests to issuing certificates, assigning member IDs, or helping with access to the system. I'm here for every member who needs support – whether it's renewing a membership or simply figuring out where to click.

Board support & reporting

I work closely with the IAVCEI Executive Committee – I attend meetings, take minutes, and prepare regular membership overviews, as well as financial reports to support planning. Together, we aim to ensure that being part of IAVCEI is as valuable and rewarding as possible.

Communication & newsletters

I'm involved in the preparation and distribution of the newsletter, manage the mailing lists, and handle the delivery of urgent messages from the board. I also coordinate between the IAVCEI Vice-President and a graphic designer to maintain the visual identity of the newsletter.

Website & user interface

I regularly update the IAVCEI website and oversee the *gMem* membership system (https://iavcei.gmem.eu/page/home), working to ensure everything is clear and functional for both members and administrators. If more extensive updates are needed, I coordinate them with our web team so as to improve the product. I believe this combination of administrative structure, quick response, and personal approach helps build a strong and stable foundation for the IAVCEI community to grow and develop.

My Path to IAVCEI

From the beginning, I've always been drawn to variety. I come from a musical family, and although I won several international piano competitions and completed a degree at the Academy of Performing Arts in Prague, I knew early on that I didn't want to pursue music as a full-time profession. I wanted it to remain a deep and meaningful part of my life – as a passion, not a job. At the same time, I was always been interested in organization and management, so I went on to study University of Economics in Prague, hoping to one day connect both fields. After graduation, I worked for a year in the management team of Prague Philharmonia (https://www.prgphil.cz/en), one of the top orchestras in Czechia.

Marie-Anna performing at a concert

During this time, I was offered the opportunity to become director of Music Academy Telč – an international classical music masterclasses with over 30 years of tradition, held annually in Telč, a UNESCO – listed town in Czechia (https://www.akademietelc.cz/en/). It was a huge challenge – I was just 25 at the time, and responsible for everything from budgeting and grant applications to marketing, logistics, communicating with participants and artistic programme planning. I've now been doing it for eight years, and this experience gave me deep insight into the challenges non-profit organizations often face. It was this insight that eventually led me to Association House by GUARANT International. Here I now support professional non-profit associations in everything they need to focus on, with a full dedication to what matters most – *supporting their mission and working to disseminate expertise*.

And what about the piano?

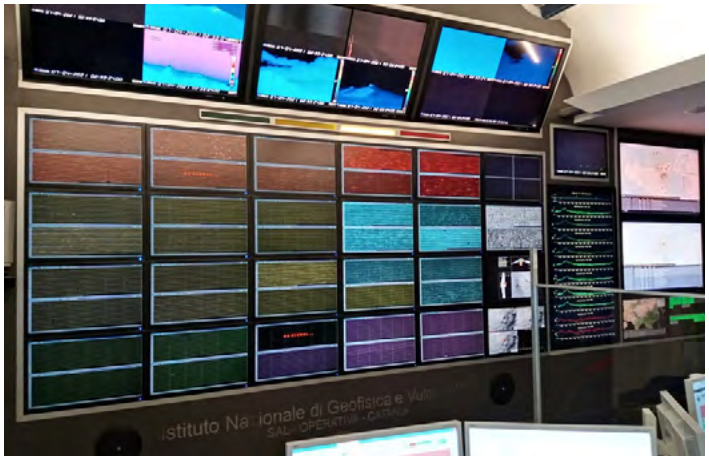
It's still a big part of my life and brings me a lot of joy. Every now and then, I find time to perform – so if you ever happen to be in Prague, you might catch me in concert at the Municipal House's Smetana Hall[1] or in the St. George's Basilica at Prague Castle[2]. You're warmly invited!

- (1) https://pragueclassicalconcerts.com/en/?filters=YToxOntzOjEyOiJzZWx-lY3Rpb25faWQiO2E6MTp7aTowO2k6MTI7fX0%3D&_gl=1*vb06o0*_up*MQ..*_gs*MQ..&gclid=CjwKCAjwiezABhBZEiwAEbTPGCGee0SXOw5Q14-5cAlyPBT-pDM_c8kyAZA_waDuO-oJf96mEY8n4uRoC5lwQAvD_BwE
- (2) https://pragueclassicalconcerts.com/cz/selections/st-georges-basilica?gad_source=1&gad_campaignid=21698206788&gclid=CjwKCAjwiezABhBZEiwAEbTPGCdDiAIK7qQVw7s0dg5xLhhOi7PLflvcew-gh2gZRNjhSUCCiP_N9xoCTCgQAvD_BwE

Timanfaya National Park

1.4 Observatory News

25 Years of INGV – A Milestone in Geoscience
https://25anni.ingv.it/



The INGV monitoring rooms at Rome (director: Lucia Margheriti), Catania (director: Stefano Branca), and Naples (director: Mauro Antonio di Vito)

The *Istituto Nazionale di Geofisica e Vulcanologia* (INGV, https://www.ingv.it/) is a public research institution under the supervision of the Italian Ministry of University and Research. It was established by Legislative Decree on September 29, 1999, through the merger of several pre-existing research bodies. Its overarching mission is to advance the understanding of Earth system dynamics and to contribute to the mitigation of natural hazards.

The Institute's work spans three major areas. The first involves scientific and technological research in seismology, volcanology, and environmental sciences. The second encompasses institutional research and service activities that support society, public administration, and industry. The third area includes "Third Mission" activities, such as education and training, science communication, technology transfer, patenting, spin-offs, as well as the management of museums and science outreach centers.

As a key component of the Italian National Civil Protection System and a designated Competence Center of the Civil Protection Department, INGV is responsible for monitoring seismic activity across the national territory, surveillance of Italy's active volcanoes, and tsunami detection in the Mediterranean region. These monitoring efforts are carried out through the operation, maintenance, and development of advanced

observation networks distributed across Italy, with a particular focus on areas surrounding active volcanoes. Continuous 24/7 operations are ensured through three control rooms located in Rome (ONT, https://www.ont.ingv.it/), Catania (OE, https://www.ct.ingv.it/), and Naples (OV, https://www.ov.ingv.it/).

With approximately 1,000 staff members – including researchers, technicians, and administrative personnel – spread across 10 divisions throughout Italy, INGV is today one of the largest research institutions in Europe and a global leader in the field of geosciences.

25 years of Geosciences for Society

As part of the celebrations marking the 25th anniversary of its founding, INGV's history is being shared through a series of initiatives promoted by its staff. Taking place from October 2024 through June 2025 (https://25anni.ingv.it/cronoprogramma/archivio-eventi), these events are aimed at both the scientific community and wider communities.

The first institutional celebration was held on October 7, 2024, at the Koch Hall of the Italian Senate in Rome (https://25anni.ingv.it/celebrazione-senato-7-ottobre-2024). The event brought together representatives from national institutions, the scientific community, and the Civil Protection system to honor a quarter-century of research and innovation in the geosciences. Additional institutional events followed in Catania and Ercolano. Subsequent activities have focused on the scientific community, including seminars, workshops, and special editorial projects dedicated to the anniversary.

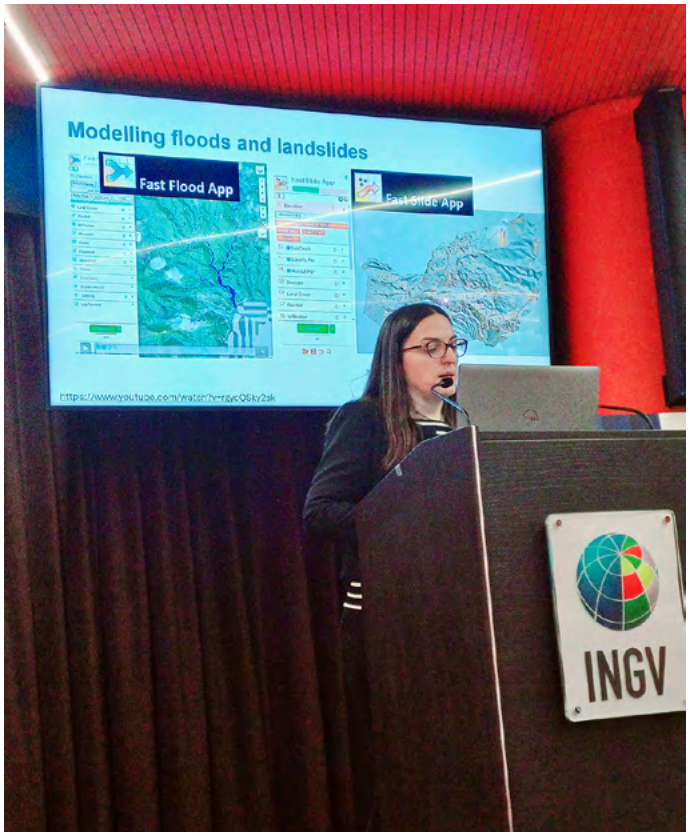
Institutional celebration at the Koch Hall of the Italian Senate in Rome (October 7, 2024)

Seminar and Workshop Program

https://25anni.ingv.it/images/A3_con_link_to_the_seminars_program_Annals_of_Geophysics_file_definitivo_con_link_2.pdf

It was with great pleasure that the Editorial Board of Annals of Geophysics invited the scientific community to a series of seminars held from October 2024 to May 2025 at INGV's locations in Rome and Catania, with sessions being streamed and available via YOUTUBE (https://www.youtube.com/@INGVEventi/streams).

The seminars were delivered by internationally renowned researchers who, over the years, have collaborated with INGV through numerous projects, partnerships, and academic exchanges. Their contributions have advanced knowledge across the Institute's broad range of scientific disciplines and have further enhanced INGV's international standing.

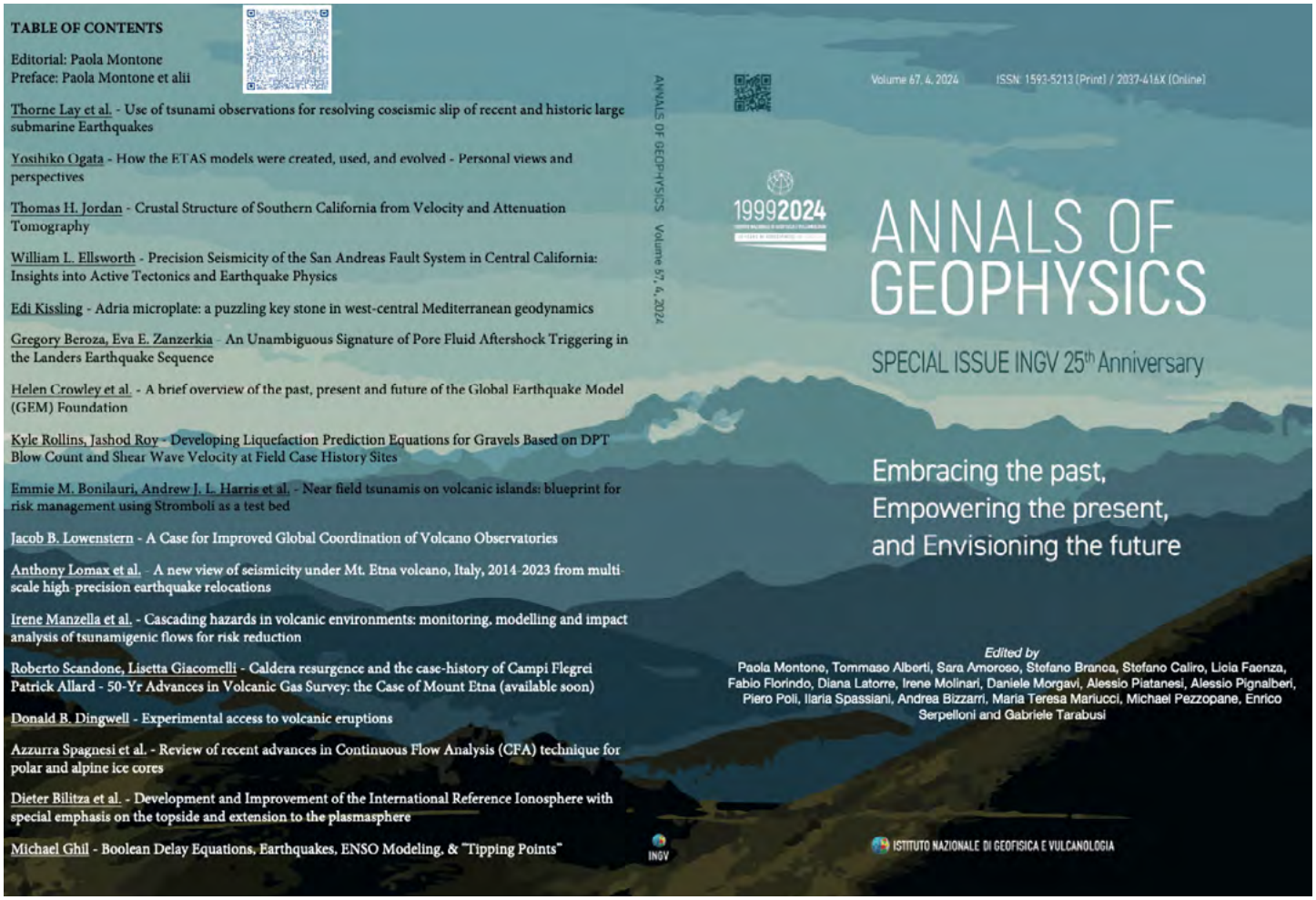


Irene Manzella and Emmie Bonilauri during their presentations at INGV-Rome

Over 80 colleagues took part in the international workshop "Tsunami Warning @Stromboli: Observations, Modelling, Hazard, Forecasting", held on the island of Stromboli in October 2024. The event provided a valuable opportunity for experts from various disciplines to share the latest research findings, strengthen international collaborations, and discuss strategies for improving tsunami monitoring and early warning systems in volcanic island settings.

Scientific Editorial Initiatives

To celebrate 25 years of excellence in the geoscience, and to mark a significant milestone in INGV's scientific journey, scientific



Front and back covers of the special issue of Annals of Geophysics devoted to celebrating 25 years of international collaboration. All articles contained therein are available via OPEN ACCESS from: Vol. 67 No. 4 (2024): Embracing the past, empowering the present, envisioning the future, 25th INGV Anniversary | Annals of Geophysics

journals published by the Institute are releasing special issues dedicated to the celebration. These are:

- Annals of Geophysics (https://www.annalsofgeophysics.eu/),
- Journal of Geoethics and Social Geosciences (https://www.journalofgeoethics.eu/index.php/jgsg),
- Le Collane Editoriali INGV

These volumes feature a selection of original articles written specifically for the occasion, as well as curated collections of previously published pieces from INGV's blog-magazines.

As part of this, the international peer-reviewed diamond open-access journal Annals of Geophysics proudly released a special issue titled "*Embracing the Past, Empowering the Present, and Envisioning the Future*", dedicated to celebrating the anniversary. This collection features scientific articles authored by researchers whose work and collaboration have significantly contributed to the prestige of INGV and the journal. While the authorship does not represent the full breadth of past and present collaborators, the volume offers a rich and insightful overview of key topics in seismology, volcanology, and environmental sciences.

The volume is structured into three sections: the first focused on seismological studies, the second on volcanological research, and the third addressing environmental topics. It includes both review papers and original contributions, with dedicated articles on tsunami studies, multi-hazard assessments, the history of major scientific infrastructures, and the development of widely used seismological models.

As Editor-in-Chief of Annals of Geophysics, I warmly invite you to explore these pages and engage with the wide-ranging insights and discoveries that shape our field. May these volumes serve as both a source of inspiration and a point of reference for future research and collaboration, especially for the next generation of scientists.

The anniversary is further enriched by a special monograph showcasing a previously unpublished photographic collection. This unique editorial project offers an exclusive visual narrative of INGV's work, capturing major research projects and scientific activities – past and present – through powerful imagery. It is a visual journey into the heart of science, where research meets the landscape. Some of the photographs, including those portraying dramatic moments, tell the story of INGV's evolution,

reflect the passion behind its mission, and illustrate its ongoing commitment to improving societal well-being over the past 25 years.

Front covers of book remembering celebrating 25 years of work by the INGV (Andronico et al. 2024)

Additional Editorial Initiatives

Further editorial activities dedicated to our anniversary can be found in the Journal of Geoethics and Social Geosciences, which published a special volume titled "*25 Years of Advancing Geoethics and Social Geosciences at INGV*", edited by S. Peppoloni and G. Di Capua (https://www.journalofgeoethics.eu/index.php/jgsg).

In addition, the journal Miscellanea released a three-volume series titled "*A Journey to Learn About Our Planet: Among Air, Water, Earth, and Fire*". These three volumes feature a curated selection of articles originally published on the INGV blog, covering topics related to earthquakes, volcanoes, and environmental issues.

Events for Society

Numerous public outreach events have also been organized to engage the broader public. Exhibitions open to the public were held in several cities, including Catania, Palermo, Rome, Ancona, and Genoa, offering opportunities for citizens to explore INGV's work and the science behind geophysical phenomena.

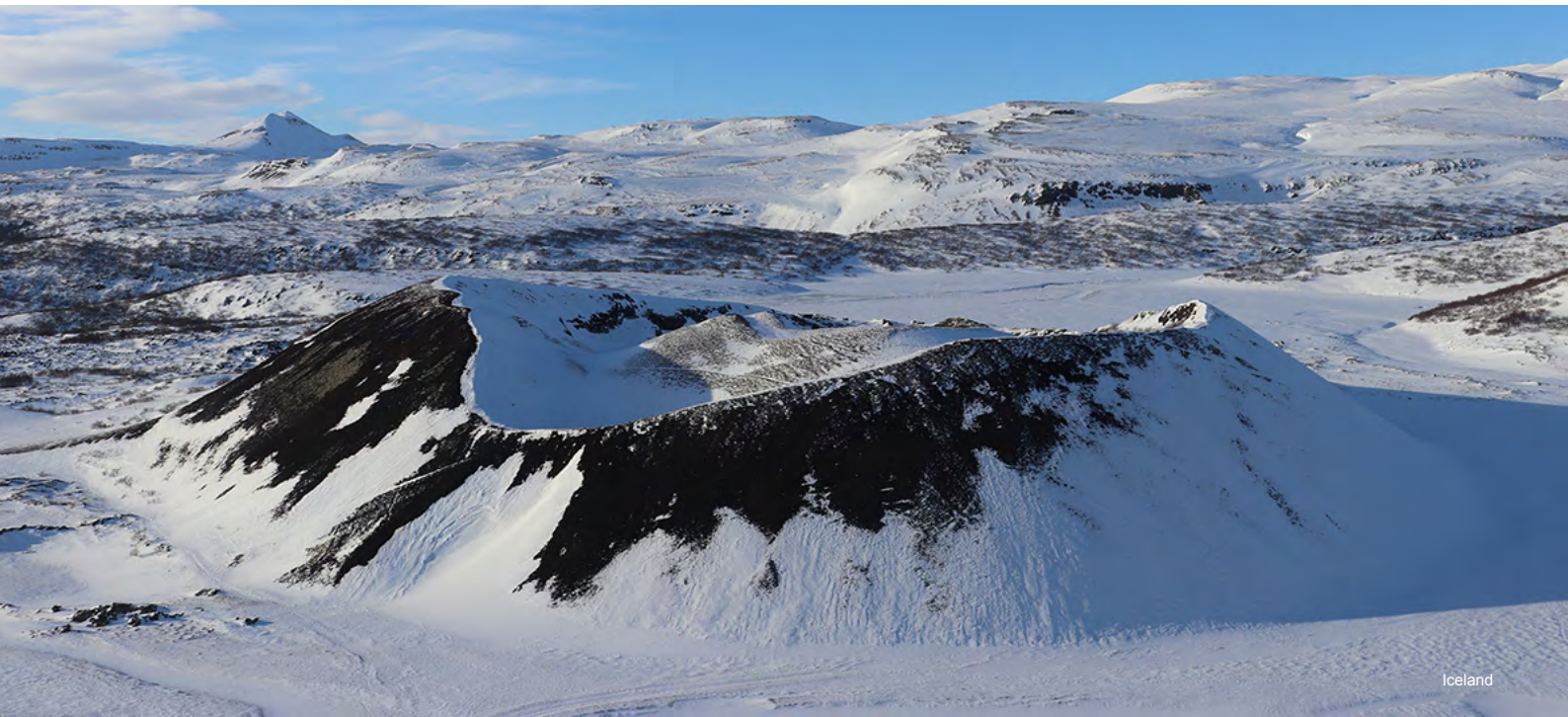
We will have a booth at the IAVCEI Conference – we look forward to welcoming you and sharing our story.

Paola Montone, PhD
INGV Research Director
Annals of Geophysics
Editor in Chief

1999 2024
ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA
25 ANNI DI GEOSCIENZE PER LA SOCIETÀ

References

- Andronico D, Angioni B, Anzidei M, Bagnato E, Di Stefano F. VENTICINQUE ANNI DI ATTIVITA. (2024) Monografie INGV [Istituto di Geofisica e Vulcanologia], 1: 260 pp. https://doi.org/10.13127/monogr/1
- Montone P et al. (eds). Embracing the past, empowering the present, envisioning the future, Special issue INGV 25° Anniversary. (2024) Annals of Geophysics, 67, 4, https://www.annalsofgeophysics.eu/index.php/annals/issue/view/612
- Peppoloni S and Di Capua G (eds). *25 Years of Advancing Geoethics and Social Geosciences at INGV*. (2025) J. Geoethics and Social Geosciences, 2 Special Issue, https://www.journalofgeoethics.eu/index.php/jgsg/issue/view/6
- Miscellanea INGV (2024) *A Journey to Learn About Our Planet: Among Air, Water, Earth, and Fire*. Miscellanea INGV, 86, https://doi.org/10.13127/misc/84, https://doi.org/10.13127/misc/85, https://doi.org/10.13127/misc/86



Iceland

SECTION 2. IAVCEI CONFERENCES, MEETINGS AND WORKSHOPS

2.1 CVS goes to Hungary

Discovering the fascinating impact that volcanoes can have on the sedimentary record
https://cvs.iavceivolcano.org/welcome-to-commission-on-volcanogenic-sediments/

Hungary hosted the first international field workshop dedicated to volcanogenic sedimentation, as organized by the IAVCEI Commission on Volcanogenic Sediments (CVS) and officially sponsored by both IAVCEI and IAS. The event was held in collaboration with:

- MTA–HUN-REN CSFK Lendület "Momentum" Pannonian Volcano Research Group of the Institute for Geological and Geochemical Research (HUN-REN Research Centre for Astronomy and Earth Sciences),
- Eötvös University (Hungary),
- DiBEST of Unical and CNR–IGAG (Italy),
- University of Hull (UK), and Massey University (New Zealand).

The field trip, led by Andrea Di Capua, Federica Barilaro, Orsolya Sztanó, Péter Gál, Szabolcs Harangi, and Réka Lukács, took place from April 7th to 12th, 2025. Over the course of the week, 12 participants, among PhD students, Early and middle-career Researchers, from across the globe (from Europe to South America; from Asia to Africa), explored the influence that volcanism has on the sedimentary record in both terrestrial and submarine settings.

The IAVCEI Commission on Volcanogenic Sediments workshop at Samsonhàza

The Pannonian Basin in Hungary provides an exceptional natural laboratory for exploring the influence of volcanism on sedimentary records in terrestrial and submarine settings, hosting extensive volcanogenic successions interbedded with clastic and carbonate sediments—depositional patterns largely governed by the interplay of sea-level fluctuations and tectonic activity, particularly during the Miocene. The program began with a morning session introducing the geodynamics and stratigraphy of the Pannonian Basin, along with the nomenclature of volcaniclastic deposits.

First day Seminars

Fieldwork began at the iconic site of Sámsonháza, where Miocene submarine volcanogenic deposits are interlayered with limestone and intruded by sills. On the second day, the group examined basaltic monogenetic volcanic features in Tajti and Fülek (Slovakia, near the Hungarian border), followed by a brief historical tour of Fülek Castle and a tasting of the traditional Hungarian dish lángos. The day concluded with a visit to Páris-patak (Hungary), where Miocene fluvial sedimentation was strongly influenced by nearby coeval andesitic volcanism.

At Fulek Castle

At paris-patak

At Ipolytarnóc Geopark

At Sirok Castle

Travertine of Egerszalok

From the third day onward, andesitic and rhyolitic volcanism became the focus. At Ipolytarnóc Geopark, participants observed the dramatic impact of the accumulation of a pyroclastic density current (named Eger Ignimbrite) on a fossil-rich pluvial forest. The group then explored the Csevice Creek section at Tar (Mátra Mountains), where a submarine andesitic volcanogenic apron prograded over the ~100 m-thick Demjén Ignimbrite. The fourth day was dedicated to tracing facies variations and welding degrees of this latter ignimbrite along a 60 km transect from the Mátra in Tar to the Bükk Mountains in Demjén, passing through the medieval castle of Sirok. That evening, the group stayed in Egerszalók, where they were introduced to the fascinating processes of travertine geobody accumulation and enjoyed the local thermal baths. On the final day, participants examined a volcano-sedimentary succession comprising the Eger and Mangó Ignimbrites and the overlying secondary volcaniclastic deposits at three different sites. One of the highlights was the historic cave-dwelling village of Egerszalók, entirely carved into the PDC deposits.

The CVS-2025 workshop in Hungary offered a unique opportunity to bring together geologists from diverse backgrounds within the field of volcanogenic sedimentation. This diversity fostered constructive discussions and the exchange of perspectives on how to study these complex successions. The success of this inaugural edition of the workshop lays a strong foundation for future field-based initiatives led by the Commission on Volcanogenic Sediments. Alongside the Commission's regular thematic webinars, these initiatives aim to advance our understanding of the intricate interactions between volcanism and sedimentation across a variety of geodynamic settings. Stay tuned!

On behalf of the Organizers
Andrea Di Capua
leader of the Commission on Volcanogenic Sediments

The fieldtrip leaders

2.2 Announcing the ECR-Network Scavenger Hunt

To be held at the IAVCEI SA 2025-Geneva Edition
https://ecrnet.iavceivolcano.org/

ECR-Net are excited to announce a *Scavenger Hunt*, a fun and engaging competition designed to help our network work together and explore the beautiful city of Geneva during the upcoming IAVCEI Scientific Assembly (SA). The hunt will run throughout the SA (kickoff: 29 June; final whistle: 4 July at midday), with the winners being announced at the closing ceremony on the same day as the final whistle.

The Hunt: Teams of between one and four participants will compete to complete a series of challenges, collecting points for each challenge.

The prize: Each member of the winning team will receive a *4-year membership waiver*, which will be added to their current IAVCEI membership plan.

The ECR-Net Scavenger Hunt aims to incentivize meeting and networking among IAVCEI's ECRs, while also engaging with more senior IAVCEI members, as well as to discover hidden gems in Geneva and experience the conference in a fun and interactive way.

Stay tuned to our ECR-Net social media channels for more details on the official start of the Scavenger Hunt at the conference!

2.3 COV13 postponement

13th Cities on Volcanoes conference, originally planned for July 2026
https://www.iavceivolcano.org/cov-13-cities-on-volcanoes-bend-oregon-postponed/

In agreement with the Cities and Volcanoes Commission and the IAVCEI Executive Committee, the Local Organizing Committee for the 13th Cities on Volcanoes (COV13) conference, originally planned for July 2026 in Bend (Oregon, USA), has made the difficult decision to postpone the event to a future date. Recent developments have created uncertainty around our ability to confidently and effectively host the conference in 2026 and to welcome attendees without concern.

This decision follows many months of collaboration with more than 70 local, regional, and international partners to shape an engaging and meaningful program. We recognize this news will be disappointing, but we believe it is the most responsible choice under the current circumstances, grounded in care for our colleagues and partners.

With continued support from the Cities and Volcanoes Commission and IAVCEI, we are already exploring the possibility of hosting COV in Bend in 2030 or 2032, and we remain hopeful for opportunities to gather in the future.

COV13 Local Organizing Committee
IAVCEI Cities and Volcanoes Commission
IAVCEI Executive Committee

A statement from the CAV Commission: *We fully support the COV13 Local Organizing Committee's difficult decision to postpone the conference. CAV is retiring the Cities on Volcanoes conference number 13 (COV13) in grateful appreciation of the work the COV13 LOC has achieved to date, bringing together many different levels of government and jurisdictional authorities, academics and students, and local community partners. We look forward to meeting as a community in Bend when the time is right.*

Tenerife

SECTION 3. IAVCEI – DOWN TO BUSINESS

3.1 Meeting of Members

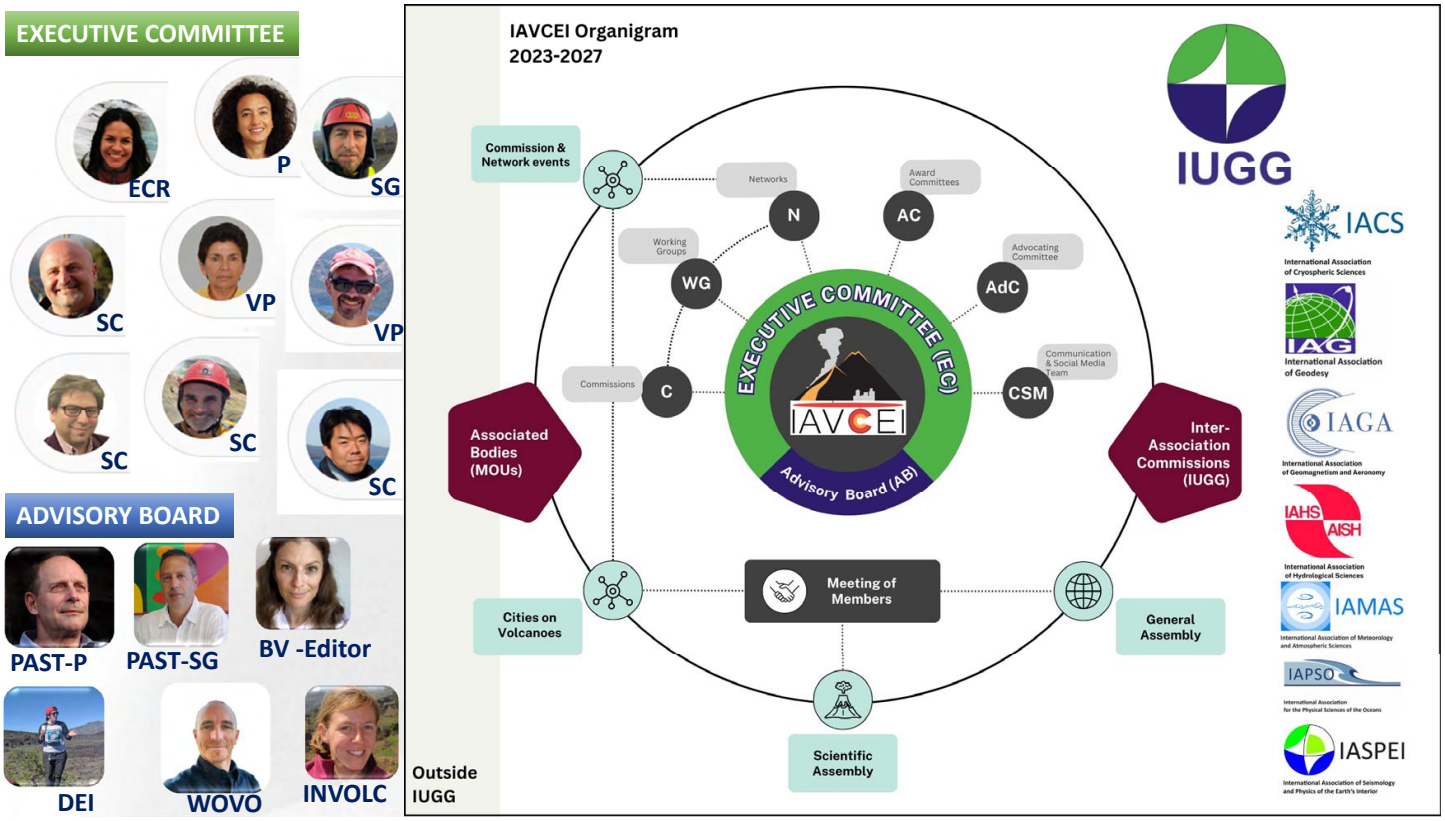
Please come along to our Meeting of Members (MoM) to be held on **Wednesday 2 July 2025** beginning at **18h00** (CET) at the Bâtiment des Forces Motrices (Place des Volontaires 2, 1204 Genève, Switzerland) during the Scientific Assembly, in accordance with §10 of the IAVCEI Statutes and By-Laws (https://www.iavceivolcano.org/statutes-and-by-laws/).

Remote access will be possible via a Zoom link which will be communicated to all IAVCEI members few days before the MoM. and the MoM is a yearly event where first-hand info is communicated regarding the running and operations of *your association*, IAVCEI. Costanza Bonadonna will start with a short presentation that will include updated Statutes and Bylaws, and current IAVCEI operations, initiatives and philosophy. Afterwards, Ulrich Kueppers will present the *2024 finances*, including the way IAVCEI funds are currently managed and used as well as a proposal for new membership scheme. Members are encouraged to contribute to the discussion during the *open mic session.*

The MoM will end with this year's IAVCEI medals and awards ceremony (see *front page feature*).

Costanza Bonadonna	President (P)
Ulrich Kueppers	Secretary General (SG)
Marta Lucia Calvache	Vice President (VP) – Commissions & Networks Manager
Andrew Harris	Vice President (VP) – Newsletter Editor
Joali Paredes	Early Career Researchers (ECR) Representative
Councillors (SC) Alessandro Aiuppa; Alvaro Amigo; Alessandro Bonforte; Nobuo Geshi	
Advisory Board (AB) Patrick Allard (Past-President); Marie Edmonds (Bulletin of Volcanology – Executive Editor); Lis Gallant (EDI advisor); Nico Fournier (World Organisation of Volcano Observatories, WOVO); Karen Fontijn (International Network for Volcanology Collaboration, INVOLC), Cheryl Cameron (Indigenous Volcanology Network)	

All members of the Executive Committee and Advisory Board will be present for all of the week so if you have anything at all you would like to raise, please do just stop any one of us and have a chat.



Current IAVCEI organigram, executive committee and advisory board (https://www.iavceivolcano.org/about/). Note that the position of past-SG terminates after 12 months of hand over to the new EC. We take the opportunity to thank Roberto (included for the final time in our organigram) for his many years of service as SG, and for his continued help with the functioning, and memory, of the IAVCEI EC.

3.2 Free access to all Bulletin of Volcanology publications

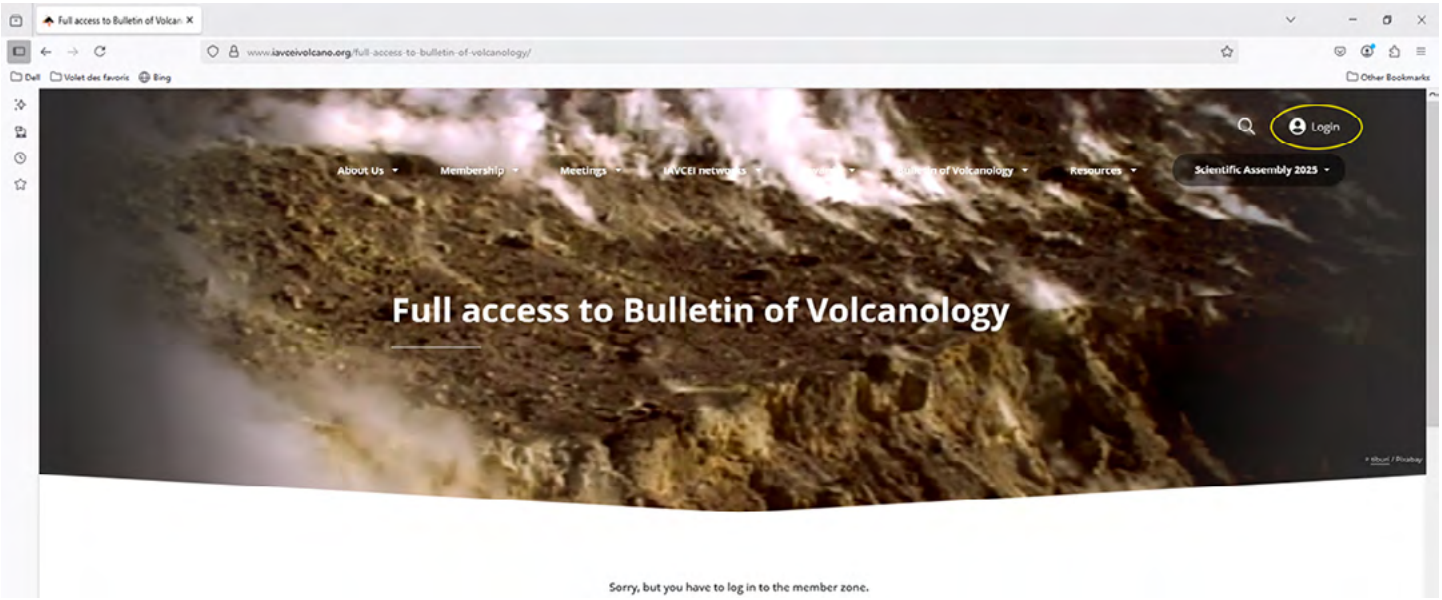
A benefit only available to the IAVCEI membership

As from today, whether you have institutional access or not … YOU, as an IAVCEI member, have full access to *all papers published in the Bulletin of Volcanology*.

To benefit from this IAVCEI membership benefit go to: https://www.iavceivolcano.org/full-access-to-bulletin-of-volcanology/

You may receive the message: *"Sorry, but you have to log in to the member zone"*

In such a case, go to you login in the top upper-right corner of the web-page



Then, login using your IAVEI <username> and <password>, and then click on the button:

Go to BULLETIN OF VOLCANOLOGY

This will log you in to the Bulletin of Volcanology website (https://link.springer.com/journal/445) where you be free to access all publications whether published as Open access or not.

Mexico

3.3 Events and Meetings 2025–2026

IAVCEI events 2025

7th Volcano Geology workshop
January 11–17, 2025, Colombia
[Volcano Geology commission]
https://volcanogeology.iavceivolcano.org

Workshop
April 7–11, 2025, Hungary
[Volcanogenic Sediments Commission]
https://cvs.iavceivolcano.org/cvs-activities/

Field Workshop in Iceland
May 18–24, 2025, *Iceland*
[Volcano-Ice Interactions Commission]
https://viic.iavceivolcano.org/iceland-workshop-may-2025/

Working on Active Volcanoes: Learning the Tools of Modern Volcanology
4th International Summer School
June 8–16, 2025, Lipari, Vulcano and Stromboli
[IAVCEI-Endorsed Event]
WOAV I-SITE Web Link

IAVCEI Scientific Assembly
June 29 – July 4, 2025, Geneva, Switzerland
[Scientific Assembly]
https://sa2025.iavceivolcano.org/

15th Gas Workshop
August 31 – September 7, 2025, Hokkaido, Japan
[Commission on the Chemistry of Volcanic Gases]:
https://ccvg.iavceivolcano.org/field-workshops/14th-workshop-japan-2025/

LASI VII workshop on The physical geology of subvolcanic systems: laccoliths, sills & dykes
September 9–11, 2025, Hveragerði, Iceland
Field trips September 12–14, 2025, Hveragerði, Iceland
[supported by Volcanic and Igneous Plumbing Systems Commission]
https://lasi7.hi.is/

Curso internacional de volcanología
October 20 – November 1, 2025, Olot (La Garrotxa) – La Palma, Spain
[Fundació d'Estudis Superiors d'Olot (FES), IAVCEI-sponsored event]
https://espaicrater.com/es/cursovolcanologia/

International Tsunami Symposium
November 12–4, 2025, Hyderabad, India
[IAPSO/IASPEI/IAVCEI Commission on Tsunamis]
https://its2025.incois.gov.in/

IAVCEI events 2026

12th Workshop on Volcanic Lakes
March 9–17, 2026, Luzon, Philippines
[commission on Volcanic Lakes]
https://iavcei-cvl.org/

Cities on Volcanoes 13
July 12–17, 2026, Bend, USA
[Cities and Volcanoes commission]
POSTPONED (see Sections 2.3 & 3.4)

9th CCC workshop
September 20–26, 2026, Valles Caldera, New Mexico, USA
[Collapse Calderas Commission (CCC)]

3.4 CAV2026: Global Volcano Communities

For 2026, the Cities and Volcanoes commission looks forward to *CAV2026: Global Volcano Communities,* a series of shorter and smaller events in lieu of COV13. The Global Volcano Communities series will allow more engagement across the world, as attending a COV conference can be too expensive or too far for many to attend.

We will celebrate the local, with a global flavor!

More information is available here: https://citiesonvolcanoes.wordpress.com/2025/05/23/invitation-to-propose-events-for-the-iavcei-cities-and-volcanoes-cav2026-global-volcano-communities/.

If you are interested in organizing a CAV2026 event, please fill out a brief survey (https://forms.gle/5PThQcn8BQhDJ5vr7) by Friday June 13.

3.5 "Volcanic hazards: Early Warning For All" workshop after the IAVCEI Scientific Assembly 2025, Geneva (July 7–9, 2025)

Volcanic hazards pose significant and multifaceted threats to human populations, critical infrastructure, ecosystems, and economies, at local, regional, and global scales. These hazards are frequently interconnected with other natural and anthropogenic processes, producing cascading and compounding impacts that remain only partially understood. There is an urgent need to strengthen interdisciplinary and cross-sectoral collaboration, not only to advance scientific understanding of these dynamics, but also to ensure the effective application of this knowledge in developing people-centred, impact-based early warning systems and preparedness strategies.

To address this challenge, a dedicated workshop will be held at the end of the 2025 IAVCEI Scientific Assembly in Geneva. The workshop will serve as a platform to integrate volcanology with the goals of the United Nations Early Warnings for All (EW4All) initiative, by fostering dialogue and cooperation across scientific disciplines, operational agencies, humanitarian actors, and key UN bodies.

The event will bring together a broad range of stakeholders, including representatives from the four core UN agencies leading the EW4All program (UNDRR, WMO, IFRC, and ITU) to co-develop a science-policy-action interface tailored to volcanic risk. The workshop will be structured around the four foundational pillars of EW4All: Disaster risk knowledge; Detection, observation, monitoring, analysis, and forecasting; Warning dissemination and communication, and Preparedness and response capabilities.

By aligning the discussions and outcomes with these pillars, the workshop aims to deliver a tangible action plan to enhance volcanic early warning systems globally, building on the commitments of the Sendai Framework for Disaster Risk Reduction and leveraging the momentum of the EW4All initiative.

Learn more about the EW4All workshop:
https://www.unige.ch/sciences/terre/CERG-C/international-conferences/EW4ALL

Learn more about the EW4All initiative
https://www.un.org/en/climatechange/early-warnings-for-all


Turkey

3.6 The 15th CCVG Field Workshop on Volcanic Gases

Hokkaido, Japan, August 31 – September 7, 2025
https://ccvg.iavceivolcano.org/

The 15th Field Workshop on Volcanic Gases of the Commission on the Chemistry of Volcanic Gases (CCVG) of the International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) will be held in Hokkaido, Japan, from August 31 to September 7, 2025.

The local organizer and co-operator are the Earthquake Research Institute of the University of Tokyo and the Tokachidake Geopark, respectively.

This traditional activity of the CCVG has been organized every three years since 1982, and it is the second time that Japan welcomes the volcano gases community in Hokkaido.

The 2025 workshop aims to share and discuss recent developments in observation techniques, results, and interpretations of volcanic gas studies. Its core activities will be gas composition and flux measurements using direct sampling and remote sensing techniques at active vents, in plumes, and from soil emissions. The workshop will include two days of scientific presentations and discussions in Sapporo and three days of fieldwork. The fieldwork will be performed at Tarumae, Usu and/or Kuttara volcanoes. There is also an optional pre-workshop excursion that will take place at Tokachidake volcano in Hokkaido from August 28 to August 31, 2025.

Scientific program

We hope the conference will be a perfect opportunity to present a wide range of scientific activities related to studying volcanic gases. As a guide, we aim to organize the presentations around the following topics:

1. Geochemistry of magmatic gases
2. Innovations and recent advances in observational techniques and methods
3. Atmospheric chemistry of volcanic plumes
4. Interpretation and modeling of volcanic processes based on geochemical and complementary datasets.

We will organize oral and poster sessions and allocate time for active and fruitful discussions. A local researcher will be invited to give a general presentation regarding volcanoes in Hokkaido, Japan.

Places that will be visited during the 15th CCVG Workshop in Hokkaido-Japan: a) Fumaroles at Tarumae volcano, b) Usu volcano, c) Kuttara volcano

Field activities

Field activities will take place at Tarumae, Usu and/or Kuttara volcanoes, and will include:

1. Direct sampling of volcanic gases at active vents (Tarumae, Usu and Kuttara volcanoes)
2. In-situ composition measurements at active vents using Multi-GAS or similar systems (Tarumae, Usu and Kuttara volcanoes)
3. Plume measurements using remote sensing techniques (Tarumae)
4. Measurements of diffuse soil degassing (Usu)

This workshop has financial support from IAVCEI, VDAP and the IGCP-705 project as funded by UNESCO/IUGS.

All workshop information, including registration, abstract submission and grant application is available at https://sites.google.com/g.ecc.u-tokyo.ac.jp/gasworkshop15/home), as well as on the CCVG website (https://ccvg.iavceivolcano.org/field-workshops/14th-workshop-japan-2025/)

3.7 Bulletin of Volcanology: Executive Editor's Column

The Bulletin of Volcanology is in excellent shape and receiving a high number of high quality papers from the community. We are looking forward to the IAVCEI Scientific Assembly in Geneva, and *please do look out for the Springer booth and our BV Associate Editors*.

I will be there and would like to discuss with you all how to best showcase IAVCEI research. The journal accepts not only research articles but also perspectives pieces, reviews and data reports. I would like to highlight two special collections that are open now:

- Recent advances in the understanding of monogenetic volcanism
- Paroxysmal eruptions at basaltic volcanoes

Please consider submitting your latest research to these collections. If you would like to propose a new special collection, just chat to me in Geneva or drop me a line.

I am pleased to announce the winners of our '*Most Cited*' awards for 2024. These awards go to authors whose papers, published in the years prior, were cited the most times in the year 2024. These awards are:

Most Cited paper for 2024:

- Carol Stewart, for her paper 'Volcanic air pollution and human health: recent advances and future directions'

Most Cited Early Career Researcher 2024:

- Eva Eibl for her paper 'Evolving shallow conduit revealed by tremor and vent activity observations during episodic lava fountaining of the 2021 Geldingadalir eruption, Iceland'

To Carol and Eva: Congratulations!
Awards will be given during
the IAVCEI Scientific Assembly in Geneva

I hope to see you all in Geneva.

Marie Edmonds
Executive Editor, Bulletin of Volcanology

Yellowstone national park

3.8 Publisher's Corner – Information from Springer Nature

Dear IAVCEI members,

First, it is my pleasure to announce that *Springer Nature* will be present at the IAVCEI General Assembly in Geneva. We have our own booth at the assembly, with interesting books and journal information on display. Please come visit Dr Annett Buettner and me for discussions about book (projects) and anything related to the *Bulletin of Volcanology*! We are excited to participate in the event and are looking forward to discussing any questions, ideas or suggestions.

The second topic I would like to highlight are checks currently done at manuscript submission in Editorial Manager by the publisher. With AI tools on the rise, scientific publishing is hopefully becoming more equitable, as language-editing tools can be used by authors to help improve their manuscripts, especially if they are not English native speakers. As per Springer Nature's policies, this "AI assisted copy editing" (i.e., *AI-assisted improvements to human-generated texts for readability and style, and to ensure that the texts are free of errors in grammar, spelling, punctuation and tone*) will not need to be declared and is permitted – with authors being accountable for the final version of their submitted manuscript.

However, AI tools also facilitate the "*mass production*" of fraudulent research; paper mills are a pervasive problem in scientific publishing. While we do have procedures in place to deal with research integrity cases after they are detected, as a publisher, we aim at improving prevention of these cases. An important pillar to ensure we catch problematic papers as early as possible are automated checks and initial quality checks starting at manuscript submission. These include checking of references, as well as any discrepancies between author lists and information at various stages of the peer review process.

At the same time, Abstracting and Indexing services such as Clarivate (who publish the annual journal impact factors) are clamping down on bad actors in scientific publishing – also employing the use of AI tools to find discrepancies in published papers.

By adding checks for these types of discrepancies as early as possible in the peer review process, we hope to strengthen our journals' content and ensure compliance with research integrity standards. These checks, of course, will always need to be complemented by expert evaluation of publishers, authors, reviewers, and editors. As a scientific publisher, we also wish to provide information and training on these topics to our research communities. We offer courses, for example for authors on how to avoid paper mills, but also for editors on how to protect your journal from paper mills or how to spot fraudulent submissions to topical collections.

Please do not hesitate to get in touch with your publisher for more information on research integrity or with a concrete question about a manuscript you review or handle. We will do our best to share expertise, involve our colleagues from the research integrity and help you follow up.

I am looking forward to meeting you in Geneva!

Beate Hienz
Publishing Editor for Bulletin of Volcanology
Executive Publisher Springer Nature

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