

GMPV Division Meeting

Marian Holness (GMPV President)

Wednesday 18th May 2022



Meetings | Publications | Outreach | www.egu.eu

EGU22: Sessions and abstracts, Schedule

- 12,615 abstracts in programme | -9% relative to 2021
- 777 active sessions | 614 short-oral sessions | 54 Short Courses | 35 Medal and Award Lectures
- 65 Networking and Community Events (excluding pop-ups), Townhall Meetings, Side Events, Splinter Meetings
- EGU Plenary 23 May 12:00 CEST (Room E1)
- Medal & Award celebration 25 May 17:30 CEST (Room E1)

- ***Why did you change the date of EGU22 from early April to late May?***

This decision was made in January at the beginning of the Omicron wave. There was considerable anxiety within the community about attending an in-person event in these conditions. Moreover, Austria limited the maximum event size to 2000 seated people (and even fewer standing), with no indication of when that rule would be relaxed.

Under these conditions, when the ACV proposed an alternative date (due to the cancellation of another conference) we decided to do this, in order to maximise the chance of having an in-person component to EGU22

- ***Will the date of the General Assembly change again in future?***

This was the first time in the history of the EGU General Assembly that we have had to change the date and we sincerely hope it will be the last!

We are currently not announcing the date of the the 2023 General Assembly because we are still discussing with the ACV. Originally it was planned for early April but we hope to find again a date in May so as to be more resilient with regards to possible new Covid infection waves.

- ***Why are there no posters or PICOs this year?***

We originally had to provide a hygiene plan to the Austrian authorities. Including posters and PICOs in the programme appeared as a major risk in getting the plan approved.

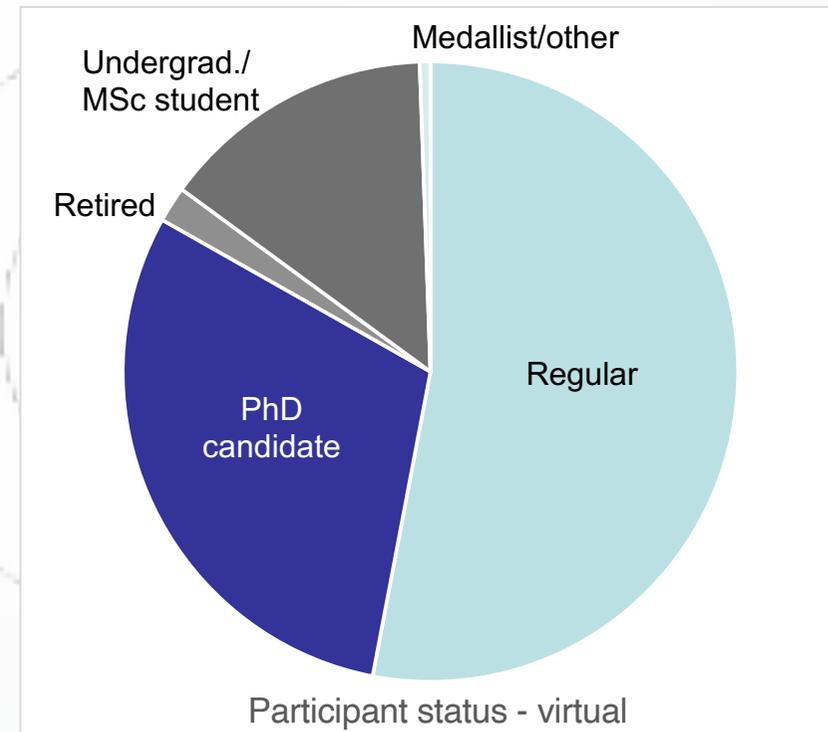
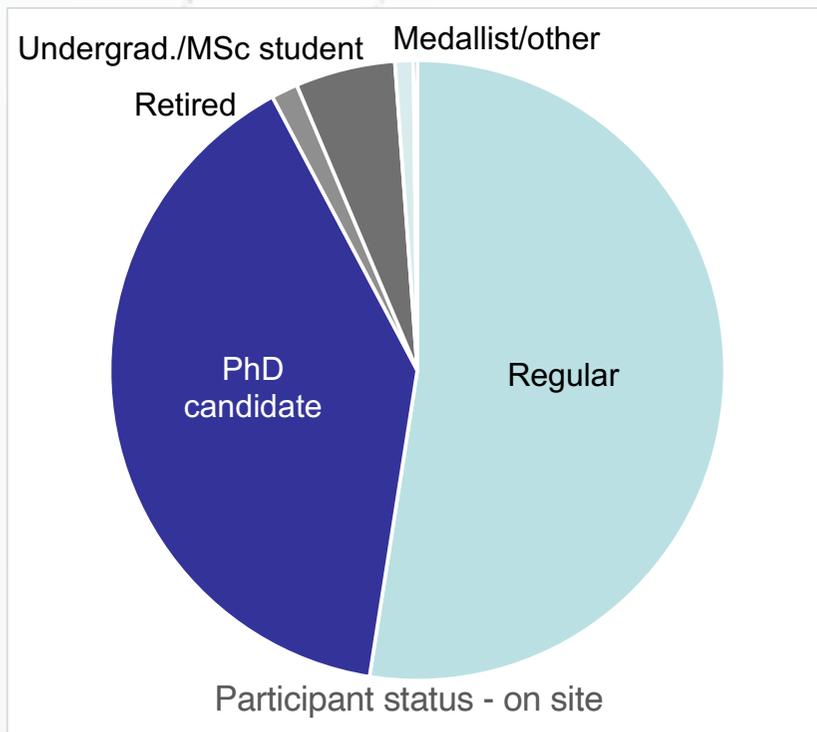
Large numbers of non-seated people mixing in closed spaces are viewed as too much of a risk to our attendees' health, safety and well-being in the current pandemic situation.

- ***Austria relaxed the Covid regulations. Why are you maintaining the 2G and mask requirements?***

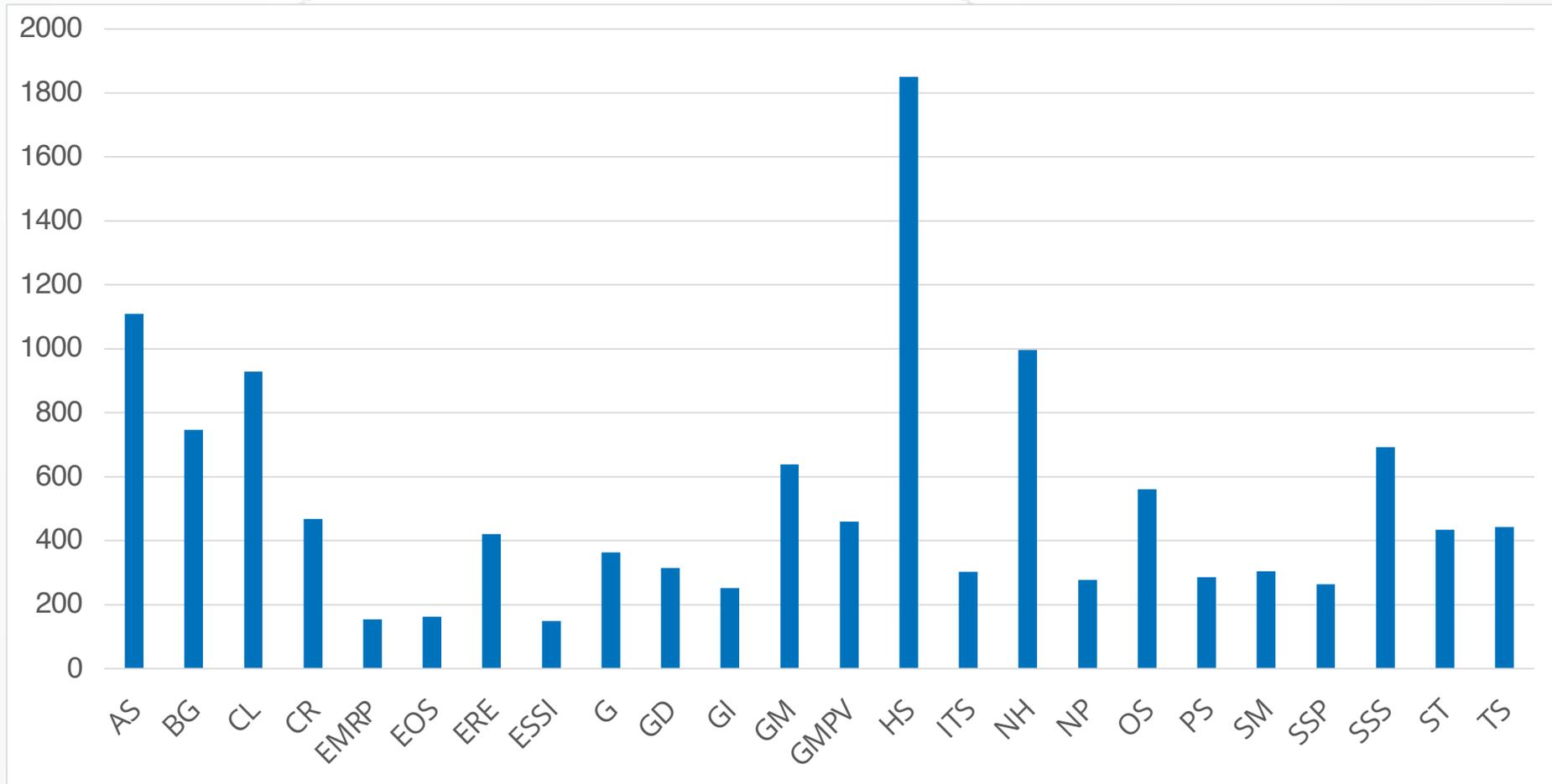
The Austrian authorities announced the relaxation of the regulations after our deadline for on-site registration. Due to the requirements of our conference hygiene plan, it was not possible to re-open the registration. We felt that participants had signed up for an in-person event under certain conditions and we did not want to modify this after participants had registered. The health and safety of all participants is our primary concern. In addition, we were advised to maintain a 2G conference given the unpredictable nature of regulation changes.

EGU22: Registration numbers and breakdown

- 7280 on-site registrations
- On-site participants: 88 countries
- 4384 virtual registrations (12/05 21:00)
- Virtual participants: 107 countries



EGU22: Abstracts per Programme Group



Early Career Scientist activities at EGU22

Networking:

- **NET2** First-time attendee and mentee meet-up (on-site only), Mon, 23 May, 12:00–13:00 (CEST)
- **NET3** ECS networking reception (on-site only), Tue, 24 May, 19:00–20:30 (CEST)
- **NET4** ECS Forum (on-site only), Thu, 26 May, 17:00–18:30 (CEST)
- **Pop-up networking events** for icebreakers, socials and discussions (virtual and on-site)!

Short Courses (a selection):

- **SC1.1** How to navigate the EGU: tips and tricks, Mon, 23 May, 10:20–11:50 (CEST)
- **SC1.2** How to get involved with EGU, Tue, 24 May, 15:10–16:40 (CEST)
- **SC2.2** Careers inside and outside of academia: Panel Discussion, Tue, 24 May, 15:10–16:40 (CEST)
- **SC2.3** How to Find Funding, Tue, 24 May, 08:30–10:00 (CEST)
- **Jobs and Careers support** in the Virtual Conference Centre and EGU Booth
- Look for the **ECS** logo in the programme!

Equality, Diversity and Inclusion (EDI) at EGU22

- **NET1** “The Leadership” – directed by Ili Baré film screening | 23 - 30 May
- **US1** Changing the Faces of Leadership at the Geoscience - Policy Interface | 26 May 15:10–16:40 CEST
- **US3** The future of (geo)scientific conferences | 24 May 13:20–16:40 CEST
- **US4** Scientific neo-colonialism: what is it and why should you care? | 24 May 17:00–18:30 CEST
- **GDB1** Towards an academic evaluation system that celebrates diversity of talent | 23 May, 10:20–11:50 CEST
- **EOS3.1** Promoting and supporting equality, diversity and inclusion in the geosciences | 24 May 08:30–10:00 CEST
- **SC2.5** ADVANCEGeo Workshop - Strategies for Improving Workplace Climate in the Geosciences | 24 May 13:20 – 14:50 CEST
- EDI Networking Event | 26 May, 19:00–20:00 CEST
- EGUpride icebreaker | 22 May, 19:00–21:00 CEST and EGUpride networking | 26 May, 18:00–19:00 CEST
- Did This Really Happen (DTRH) comics and EGU colouring book (part 2!)
- EDI Booth.... AND MORE!

EGU22 outreach activities

- **EGU Public Lecture:** “Geothermie - Energie aus der Tiefe” (Geothermy - energy from the depths) by Maria-Theresia Apoloner | Zentralanst. f. Meteorologie und Geodynamik (ZAMG) - 24 May 18:00 at the Austrian Academy of Sciences and online.
- **EGU Mentoring:** 48 mentees for 20 mentors applications.
- **Croome award lecture** by Robin George Andrews 24 May 19:00 CEST Room E1
- **Teaching/scientist pairing scheme**

Learn how to engage with policymakers at EGU22

- **Short Courses:** Practical tips on you can more effectively engage with the policymaking process & share your expertise.
 - *The role of scientific institutions in policymaking (Wed 8:30-10:00)*
 - *How to influence policy through engaging with Parliaments (Wed 13:20-14:50)*
- **Union-wide sessions:** Examples of how science has been used in the policymaking process
- **EGU's Science for Policy Help Desk** will be open everyday from 11:00-12:00 at the EGU Booth to answer your policy-related questions!

See the full list of #SciPol sessions: egu.eu/5VBLHI

Keeping up with science for policy after #EGU22

If EGU22 sparks your interest in policy, it doesn't have to end there!

- Work inside the European Parliament for a week via the **EGU's Science-Policy Pairing Scheme**
- Join **EGU's Science for Policy Hangouts** (monthly webinars starting July)
- Attend the **EGU's Science for Policy Event** focusing on biodiversity inside the EU Parliament in September 2022
- Subscribe to **EGU's Science for Policy Newsletter**



Find more details on <https://www.egu.eu/policy> or get in touch via policy@egu.eu & on Twitter via [@ChI0e_Hill](https://twitter.com/ChI0e_Hill)



EGUsphere - The EGU interactive community platform

- EGUsphere, the not-for-profit open access preprint repository of the European Geosciences Union (EGU).
- Inclusive | Transparent | Interactive
- Find out how to post your conference abstract, presentation, or journal preprint in the Earth, space, and planetary sciences!

VISIT: <https://www.egusphere.net/>

Psssst!
Have you heard of

EGUsphere

The 2022 Robert Wilhelm Bunsen Medallist: Janne Blichert-Toft



Janne is a world leader in the application of isotope geochemistry to address key scientific questions on the origin and evolution of the Earth and planetary bodies. She played a key role in developing multi-collector ICP-MS analysis, but is perhaps best known for her work using Lu-Hf and Pb isotopes to constrain the formation and evolution of Earth and the early Solar System.

A measure of the breadth of her influence is provided by her work on sediments and coinage that has provided new insights on questions such as why the Roman empire collapsed, and how Carthage survived the Punic wars.

She plays a key role in the geochemical community, as editor and associate editor of multiple journals, in the organization of meetings, and in the provision of invaluable support to international collaborators and their students. As an innovative researcher across a range of disciplines and as a generous colleague who works to support others, Janne Blichert-Toft epitomises the Bunsen Medal qualities of research excellence, rigour and collegiality, and is therefore recognised as the recipient of the 2022 Robert Wilhelm Bunsen Award.

Our warmest congratulations, Janne!

The 2022 Arne Richter Award for Outstanding Early Career Scientists: Fabian Wadsworth



Fabian Wadsworth has made significant contributions to our understanding of numerous volcanological processes, including the dynamics of magma droplets and sintering processes, gas flow in porous magma, the ways in which multiphase magmas fracture and re-heal in response to stress, and the formation of volcanic glass. Among his many achievements is an elegant and paradigm-shifting explanation for the long-standing paradoxical observation of the co-existence of effusive and explosive silicic eruptions. Other work involves the development of in situ high-temperature synchrotron-source X-ray tomography techniques to enable experimental validation of his new theoretical model for welding of ash and pyroclasts. This fundamental result provides a novel theory of sintering, enlarging our understanding of the fundamental physics of time-dependent porous media, with applications to industrial manufacture of glass and ceramics. A true polymath, Fabian has also made advances in understanding the evolution of language in the works of Sylvia Plath and other modern poets; the vitrification of forts in European antiquity; and the synthesis of nature, science, and art. Fabian's scientific achievements, commitment to his community, active mentorship and support of other Early Career Scientists, and future potential are simply outstanding: he is a worthy recipient of the 2022 Arne Richter Award for Outstanding Early Career Scientists.

Congratulations, Fabian!!

GMPV Science Officers



Marco Viccaro (University of Catania). His research activity is chiefly focused on the nature and timescales of magma differentiation, and magma ascent and degassing. He is involved in various multi-disciplinary scientific collaborations aimed at defining the role of active tectonics on volcanic processes through field-based surveys, and using intratelluric dynamics of fluids from the analysis of seismic signals.

Brendan McCormick Kilbride (University of Manchester) is interested in the behaviour of volatiles in magmatic systems. He draws on satellite-, field-, and laboratory-based methods to understand the origins of volcanic gases, and relate gas chemistry and flux to imminent changes in levels of volcanic unrest. He is currently focussed on the volcanoes of Papua New Guinea, in the Western Bismarck, New Britain and Bougainville subduction zones.



Chiara Maria Petrone (Natural History Museum, London) is a volcano petrologist working on understanding the dynamics of plumbing systems at active volcanoes with particular focus on timescales and dynamics of pre-eruptive processes, with application to volcanic hazard assessment.



GMPV Science Officers



Urs Schaltegger (University of Geneva) and his group use thermal ionization, noble gas, and ICP mass spectrometry for isotope geochemistry and geochronology. His main research interest is in using high-precision U-Pb geochronology to resolve the timescales of orogenic and magmatic processes in the Earth's crust, of amplitude and rates of climate change in the geological past, and of isotope systematics in accessory minerals.



Silvio Ferrero (University of Potsdam) investigates high temperature processes involving melt and fluids in collisional settings by targeting metamorphic rocks re-equilibrated over a wide range of depths. His favourite tools are microstructures, melt and fluid inclusions and mineral/melt chemistry.



Richard Palin (University of Oxford) is a metamorphic petrologist who integrates geochemistry, isotope geochronology, and structural geology into his work. His major research interests include process- or technique-oriented studies concerning fluid-rock-melt interactions, changes in metamorphic products and processes through geological time, and the geology of other rocky bodies in our solar system.



Jörg Hermann (University of Bern) undertakes multidisciplinary studies of high-grade metamorphic rocks combining petrology, geochemistry, experimental petrology, structures and tectonics. He focusses on trace element and volatile recycling in subduction zones, trace element systematics and accessory phase behaviour during high-grade metamorphism, and the Earth's deep water cycle.

GMPV Science Officers



David Dolejs (University of Freiburg) is a petrologist with broad interests in magmatic and hydrothermal systems, fluid-rock interaction and the formation of ore deposits. His approach to these problems involves analytical studies, laboratory experiments, and thermodynamic and kinetic simulations.



Max Wilke (University of Potsdam) studies minerals, melts and fluids at high pressure and temperature looking structural state, electronic state and local structure of elements and their distribution in magmatic, metamorphic and metal-enrichment processes. His major tools are x-ray techniques with synchrotron radiation, Raman spectroscopy and electron microscopy.

Evgenia Ilyinskaya (University of Leeds) focuses on volcanic gases and aerosol particles, with the overarching aim of monitoring volcanic activity and its impact on the environment and the atmosphere. Her work involves sampling and measurement campaigns at active volcanoes and laboratory analyses.

Currently on leave



Eleanor Jennings (Birkbeck, University of London) uses igneous geochemistry to understand magmatic processes on Earth and beyond. She uses a combination of analytical, experimental and modelling techniques to investigate processes ranging from planetary accretion through to mantle melting and crustal magmatic systems.



Wanted: OSPP coordinator for GMPV Division

The EGU presents a number of Outstanding Student and PhD candidate Presentation (OSPP) Awards, to further improve the overall quality of presentations at the General Assemblies and, most importantly, to foster the excitement of early-career colleagues for presenting their work. The OSPP Awards are presented at the EGU Programme Group level.

The role of GMPV coordinator is to work with Lena Noack and:

- Check that (co-)conveners assign enough OSPP judges per participating presentation.
- Assign judges if required
- Select the presentations to be given an award



Lena Noack (Berlin)

Get in touch with me if you are interested in this role!

The GMPV Early Career Scientist Committee 2022 - 2023

What is an ECS?

An **Early Career Scientist (ECS)** is:

- a **student**, a **PhD candidate**, or a **practising scientist** who received their highest certificate (e.g. BSc, MSc or PhD) **within the past seven years**.

The seven-year period can be extended to allow for periods when the scientist was not working in science because of, but not limited to, **caring and/or parental responsibilities, disability, personal illness, community obligations** or **national service**.



Giulia Consuma

GMPV ECS REP

(Research Fellow at the
Centre for Exploration
Targeting - UWA)

EGU has 22 Divisions, and each has an ECS rep

Connecting the world!



- 16 members
- 4 | Italy
- 2 | Germany
- 2 | Switzerland
- 2 | England
- 1 | Ireland
- 1 | France
- 1 | Colombia
- 1 | Australia
- 1 | Iceland
- 1 | Denmark



The **GMPV ECS** committee



Find out more information in the link sent via chat!

What we do

Check out the poster of the Connectivity Group at EGU22!



- **GMPV ECS rep:**
 - **Coordinate** the GMPV ECS team
 - **Support** ECS across EGU
 - **Represent** the GMPV ECS interests at EGU level
 - Actively participate in **Working Groups**



ECS Connectivity Group

David Fernández-Blanco, Valeria Cigala, Giulia Consuma, Janneke de Laat, Joshua Dreyer

Date | Location

The ECS Connectivity Group explores modern ways to connect and communicate

ECS group: Connectivity & Visibility · April 8, 2022 · Early Career Scientists, EGU GA 2022 · No Comments



What we do

- **GMPV Career Team + ECS Rep:**
 - Short courses, 1-2 Great Debates and more across EGU
- **GMPV Blog + Social Media Team:**
 - Blog posts by editors themselves or guest authors
 - Create/Share/Exchange information through social media
- **GMPV Campfires Team:**
 - Online talks on a monthly basis
 - So far: **17 editions, 70 ECS speakers**
 - Upcoming talks: **June - Mineralogy Edition**



GMPV for Sustainable Development: the role of Museums and Heritage
Camilla Inarasio and Bob Gooday · May 6, 2022 · Uncategorized · No Comments



2,500 followers on Twitter
Thank you!



How to get involved

- Want to share your **research/announcements/activities** on our **blog/social media**?
- Do you have any thoughts on **how the ECS experience at EGU could be improved**?
- Want to present your research at our future **GMPV Online Talks #EGUCampfires**?
 - Find the **link to sign up** to present your research in our GMPV blog/social media
 - Email us through **ecs-gmpv@egu.eu**

The ECS Team at #EGU22

- **Daily GMPV highlights** on our blog and social media
- **Short Courses** co-convened by Francesco
SC2.2: **Tue 24 May @ 15:10 CEST**
- **Onsite Icebreaker** with the GM, NH and TS Divisions
Sun 22 May @ 18:00 CEST
- **Social Dinner with the ECS Team:**
Thu 26 May @ 19:00 CEST

SC2.2

[Careers inside and outside of academia: Panel Discussion](#)

Co-organized by AS6/CL6/GMPV12/TS1

Convener: Francesco Giuntoli^{ECS} | Co-conveners: Jenny Turton^Q, Stephen Chuter^{ECS}, Anouk Beniest^{ECS}

★ Tue, 24 May, 15:10–16:40 (CEST) ■ Room -2.61/62

The ECS Team at #EGU22

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Dinner
With us!

JOIN THE GMPV ECS*!
THURSDAY,
MAY 26TH
AT 7 PM CEST

📍 7stern Bräu

* everyone is welcome!

GMPV EGU

How to stay up to date

- Follow us on Twitter, Facebook, Instagram
- Attend our GMPV ECS Campfires
- Go to <https://www.egu.eu/gmpv/home/> and **subscribe to our GMPV-ECS mailing list** to receive information on our activities

Use our official hashtag **#EGU22_GMPV**

Tag us on Twitter **@EGU_GMPV**

Your content will be shared!

Find GMPV on



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Tweets by @EGU_GMPV



 **EGU GMPV Division**
@EGU_GMPV

New blog post! @VolCamilla and @BobGooday discuss the role museums play in sustainable development. Read the blog post here: [#geology](https://blogs.egu.eu/divisions/gmpv...#geology) [#museums](#) [#sustainable](#) [#environment](#) [#Earth](#)

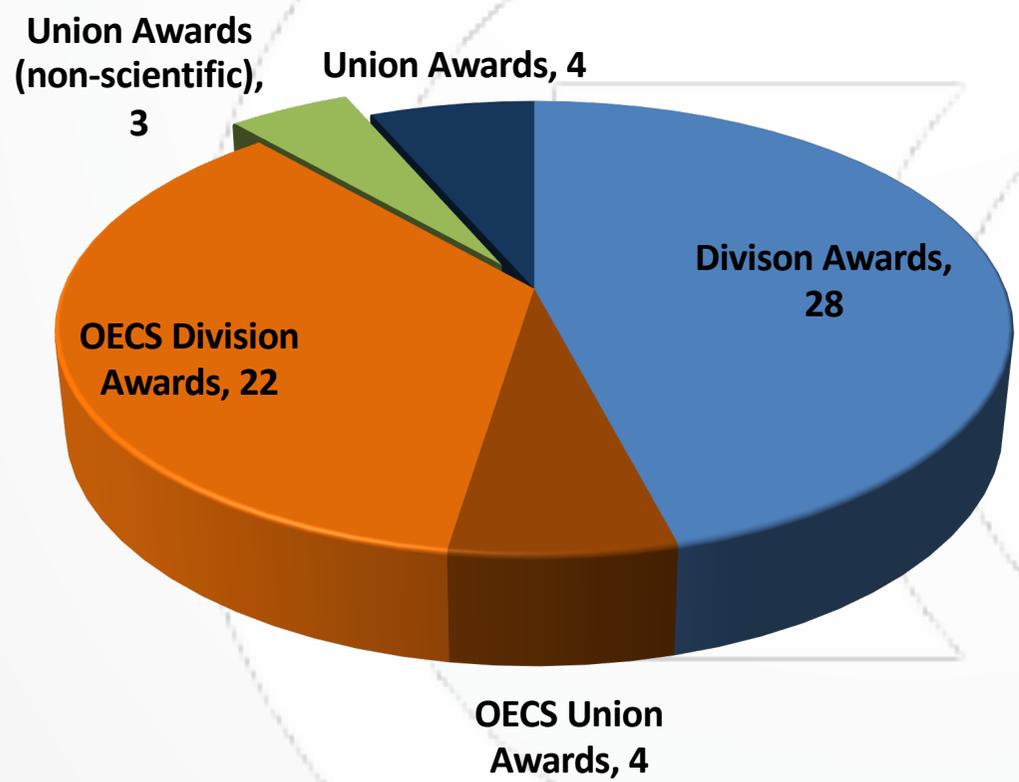


GMPV for Sustainable...
GMPV and The Sustain...
blogs.egu.eu



EGU awards & medals

EGU features an extensive awards and medals programme on all career stages



- Four prestigious **Union medals**, recognising excellence in scientific research
- Four Union awards for **Outstanding Early Career Scientists**, services for the Union, science journalism, and outreach
- 28 **division medals**, awarded for significant disciplinary contributions in Earth, planetary and space sciences
- 22 **division awards** for **Outstanding Early Career Scientists** and **General Assembly awards** for students



» **Nominations are exclusively by EGU members*** while nominees do not need to be EGU members.

(*An exception is one award to promote excellence in journalism allowing nominations from non-members and self-nominations)

» Individual award and medal committees evaluate the nominations, selecting the most deserving candidate based on scientific achievements**.

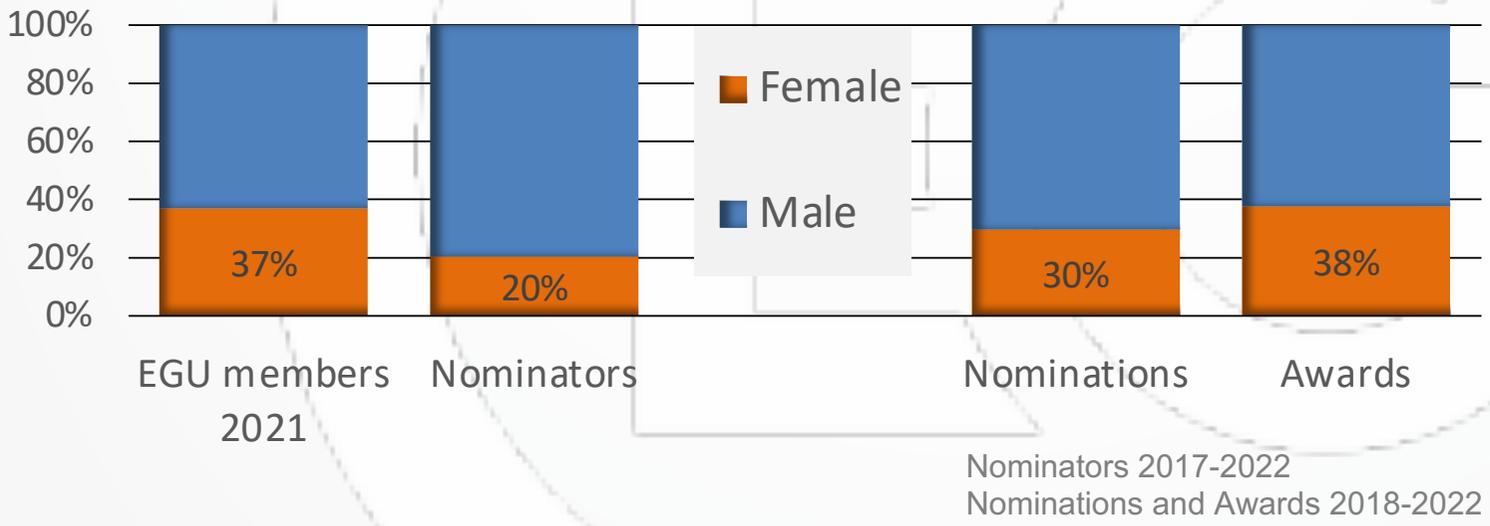
(**plus one medal each for journalism, outreach and service to the union)



EGU awards & medals

- **All** members are strongly encouraged to contribute to the awards program by nominating suitable candidates.
- Please consider nominating people who may have been overlooked in your discipline.
- ***If you do not nominate, nobody will!***

Members, Nominators, Nominees, and Awardees



EGU22-1087 * | Presentations | [EOS3.1](#) | **Highlight**
Equality of opportunities in geosciences: The EGU Awards Committee experience

Thomas Blunier
EGU awards committee chair
Wed, 25 May, 10:34 - 10:41
Room 1.14



How to nominate

Where: <https://www.egu.eu/awards-medals/nominations/>

When: Deadline is **June 15 every year**

What is required:

	Division and Union medals	Outstanding Early Career Scientists Awards
Nomination letter	1 page	½ page
Curriculum Vitae	2 pages	1 page
Selected bibliography	2 pages	½ page
Supporting letters	3-5 (maximum 1 page each)	-

Bunsen Medal Committee for 2022/2023

Chair



Mike Burton
(University of Manchester)



Holly Stein
(University of Colorado)



Daniela Rubatto
(University of Bern)



Jeff Moyen
(University of St. Etienne)



Clare Warren
(Open University)



Urs Schaltegger
(University of Geneva)

Usually there is a vote on the committee membership. This year, we won't have a vote, so please let me know if you want to raise an issue.

Many thanks to Andrew Putnis who rotates off this year.



GMPV Outstanding Early Career Scientist Award

- » An Early Career Scientist (ECS) is a student, a PhD candidate, or a practising scientist who received their highest certificate (e.g. BSc, MSc or PhD) within the past seven years. The seven-year period can be extended to allow for periods when the scientist was not working in science because of, but not limited to, caring and/or parental responsibilities, disability, personal illness, community obligations or national service.
- » For the purpose of the awards the nominee should satisfy one of the above criteria by 1 January of the year when the award is presented.

GMPV OECS Award Committee for 2022/2023



Marian Holness
(University of Cambridge)
GMPV President



Jörg Hermann
(University of Bern)



Clare Warren
(Open University)



Marco Viccaro
(University of Catania)

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***Solid Earth* is EGU's journal addressing topics of many divisions**

Solid Earth

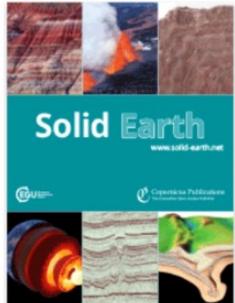
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INTERACTIVE PUBLIC PEER REVIEW

ARTICLE LEVEL METRICS

MODERATE ARTICLE PROCESSING CHARGES

Executive editors: CharLotte Krawczyk (chief executive editor), Susanne Buitert, Andrea Di Muro, Joachim Gottsmann, Federico Rossetti & Arjen Stroeven

Solid Earth (SE) is a not-for-profit journal that publishes multidisciplinary research on the composition, structure, and dynamics of the Earth from the surface to the deep interior at all spatial and temporal scales.

Clarivate™ IF 3.337

Clarivate™ IF 5-year 3.469

Scopus® CiteScore 4.5

h5-index 36

<https://www.solid-earth.net/>

open access as basic principle
preprints for interactive
discussion

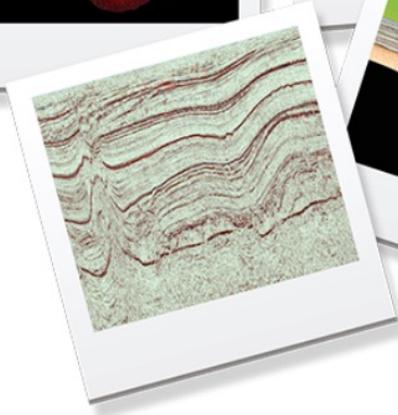
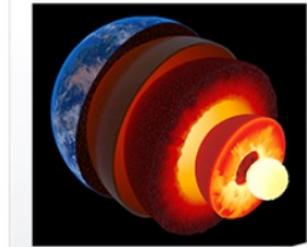
Enter the journal through 4 thematic groups

Tectonic plate interactions, magma genesis, and lithosphere deformation at all scales

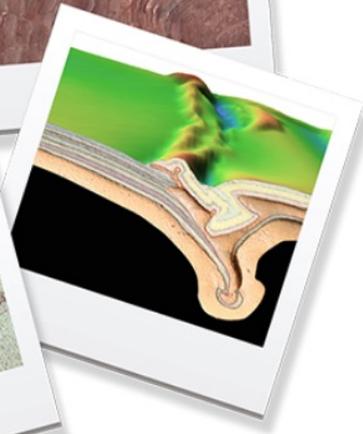


The evolving Earth surface: erosional, sedimentary, morphotectonic, and volcanic processes

Core and mantle structure and dynamics



Crustal structure and composition



Executive editors

Susanne Buitter

RWTH Aachen University
Tectonics and Geodynamics
Faculty of Georesources and Materials Engineering
Germany



Joachim Gottsmann

Univ. of Bristol
Dep. of Earth Sciences
United Kingdom



Andrea Di Muro

Institut de Physique du Globe
Observatoire Volcanologique du Piton de la Fournaise
France



CharLotte Krawczyk

GFZ German Research Centre for Geosciences
Germany



Federico Rossetti

Università Roma Tre
Dipartimento di Scienze
Italy



Arjen Stroeven

Stockholm University
Department of Physical Geography
Sweden



<https://www.solid-earth.net/>

Continue from there to disciplines



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The evolving Earth surface

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Relevant editorial teams:

- Geodynamics, geodesy, gravity, and geomagnetism | S. Buitler, J. Aubert, J. Dannberg, T. Gerya, N. Gillet, M. Manda, and S. McClusky
- Geochemistry, mineralogy, petrology, and volcanology | A. Di Muro, J. Gottsmann, A. di Muro, J. Lissenberg, A. Longo, and P. Rey
- Seismics, seismology, geoelectrics, and electromagnetics | C. Krawczyk, U. Werban, M. Malinowski, and T. Nissen-Meyer
- Stratigraphy, sedimentology, geomorphology, and palaeontology | A. Stroeven, S. Gardin, M. Mutti, K. Ogata, and M. Oliva
- Rock deformation, geomorphology, morphotectonics, and paleoseismology | F. Rossetti, M. Allen, F. Fousseis, D. Healy, Z. Mildon, S. Tavani, and V. Toy

Recent papers

11 May 2022

[Upper lithospheric structure of northeastern Venezuela from joint inversion of surface wave dispersion and receiver functions](#)

Roberto Cabieces, Antonio Villaseñor, Elizabeth Berg, Andrés Olivar-Castaño, Mariano Arnaiz-Rodríguez, Sergi Ventosa, and Ana M. G. Ferreira

EGUsphere, <https://doi.org/10.5194/egusphere-2022-230>, 2022

Preprint under review for SE (discussion: open, 0 comments)

▶ [Short summary](#)

10 May 2022

[Transient conduit permeability controlled by a shift between compactant shear and dilatant rupture at Unzen volcano \(Japan\)](#)

Yan Lavallée, Takahiro Miwa, James D. Ashworth, Paul A. Wallace, Jackie E. Kendrick, Rebecca Coats, Anthony Lamur, Adrian Hornby, Kai-Uwe Hess, Takeshi Matsushima, Setsuya Nakada, Hiroshi Shimizu, Bernhard Ruthensteiner, and Hugh Tuffen



We welcome your submissions!

<https://www.solid-earth.net/>

Mentoring scheme for GMPV ECS members | convening a session

- One of the most important building blocks of the EGU is the idea that the GA is built from the bottom-up, with session proposals coming from our members. The GMPV team is very keen to encourage ECS members to propose and convene sessions. We therefore ask all experienced convenors to volunteer to take under their wing an ECS member, to show them the ropes and to give them the confidence to propose sessions for GA2023.
- If you are a principal convenor of a session this year, and one of your co-convenors is an ECS, please consider proposing the same session in 2023, with your ECS as principal convenor and you in a supporting role.
- And to all our wonderful ECS GMPV members: please feel free to approach any of the GMPV team, either Science Officers or the GMPV ECS team, for advice, help and support in proposing and convening sessions. We'd love to hear from you!

EGU22 Survey

- Distribution:
 - via email to participants and EGU members after EGU22
 - links on social media & blog
 - egu22.eu website
- Survey live during EGU22 and until end of June

 <https://www.egu22.eu/feedback>

