

GD Division Meeting 2021

Jeroen van Hunen

29th April 2021

gd@egu.eu



Meetings | Publications | Outreach | www.egu.eu



GEODYNAMICS DIVISION MEETING 2021

Agenda:

1. Medals and Awards
2. Early Career Scientists
3. Geodynamics Blog
4. Governance Review
5. Structure of the division
6. Meeting statistics, feedback & ideas for the future
7. EGU Conferences
8. EGU Publications
9. Any other business

These division meeting slides will be made available on:

<https://www.egu.eu/gd/reports/>



Medals and Awards



- EGU features an extensive awards and medals programme on all career stages
- Nominations are exclusively by EGU members while candidates do not need to be EGU members.
- Individual award and medal committees are then evaluating the nominations selecting the most deserving candidate based on scientific achievements



The EGU Awards & Medals:

At Division level:

- The **Division Augustus Love Medal** for a distinguished scientist (1)
- The Division **Outstanding Early Career Scientist Award** (1)

The **Outstanding Student Poster/PICO (OSPP) Award** (1-2) to improve the overall quality of poster/PICO presentations and, most importantly, to foster the excitement of younger colleagues in presenting their work in poster or PICO form.

At Union level:

- The Union Medals for senior scientists including the most prestigious awards made by the Union that are associated with an EGU Honorary Membership: **Arthur Holmes Medal**
- The Union **Arne Richter Outstanding Early Career Scientist Awards**



**The Augustus Love Medal
is awarded to a distinguished scientist
in the field of geodynamics,
comprising mantle and core convection,
tectonophysics,
post-glacial rebound and
earth rotation.**



The medal has been exclusively designed for the EGU by József Kótai.



AUGUSTUS LOVE MEDAL 2021

Irina M. Artemieva

[Home](#) / [Awards & medals](#) / [Augustus Love Medal](#) / 2021 / Irina M. Artemieva

The 2021 Augustus Love Medal is awarded to Irina M. Artemieva for her outstanding research contributions to our understanding of the complex processes that control the evolution, thermal structure, stability, and dynamic topography of the continental lithosphere.

Irina Artemieva is awarded the EGU Augustus Love Medal for her many contributions to our understanding of the Earth's continental lithosphere. One of her many contributions is the development of a very widely used model of the thermal and compositional structure of the lithosphere as a function of age and its relation to geophysical properties. Her multidisciplinary and innovative research integrates thermal models, gravity, seismic observations, laboratory experiments of rock and mineral properties, and mantle xenolith data to determine the properties of the lithosphere we live on. As such, her research excellence is recognized across many different Earth science disciplines, and these integrated models of the lithosphere helped reconcile the sometimes-conflicting views between geophysicists and geochemists.



Irina M. Artemieva

See <https://www.egu.eu/awards-medals/augustus-love/2021/irina-m-artemieva/>



GD Medal Committee

Composition of the Division Medal committees:

- **Chair:** Term is one year and can be renewed 3 times.
- **Minimum three additional members**, preferentially past medalists. Term is one year and can be renewed three times. At least one member of the committee is replaced every year. The role of the past medalists is, among other things, to maintain the quality of the medal by judging the candidates' achievements.
- Division president as ex-officio member.
- Chair of the Union Awards Committee as ex-officio member.



GD Augustus Love Medal Committee

2021

Committee Chair	Committee Members without Ex-Officio Members	Term #	Medal (year)
Paul Tackley	Irina Artemieva	1	2021
	Harro Schmeling	2	2020
	Anne Davaille	3	2019
	E. Marc Parmentier	4	2018



The Division Outstanding Early Career Scientist Award (OECSA) recognizes scientific achievements in the field covered by the related Division, made by an early career scientist.

Early career scientist:

<7 years from highest degree (normally PhD)
(no age limitation)

Selection procedure:

by votes of the Division Officers

The “winner” of the Division OECSA competes for the Arne Richter EGU OECSA with other divisions OECSA winners



DIVISION OUTSTANDING EARLY CAREER SCIENTIST AWARDS 2021

Mark J. Hoggard

[Home](#) / [Awards & medals](#) / [Division Outstanding Early Career Scientist Awards](#) / [2021](#) / [Mark J. Hoggard](#)

GD Geodynamics

The 2021 Division Outstanding Early Career Scientist Award is awarded to Mark J. Hoggard for outstanding research in connecting observations at the Earth's surface to its deep interior.

Mark Hoggard is a highly interdisciplinary geologist and geodynamicist working at the forefront of research connecting observations at the Earth's surface to its deep interior. He has made fundamental and enduring contributions to our understanding of mantle convection, lithosphere structure and dynamics, and mineral resource emplacement.



Mark J. Hoggard

See <https://www.egu.eu/awards-medals/division-outstanding-ecs-award/2021/mark-j-hoggard/>



And in addition ...

DIVISION OUTSTANDING EARLY CAREER SCIENTIST AWARDS 2020

Tobias Keller

[Home](#) / [Awards & medals](#) / [Division Outstanding Early Career Scientist Awards](#) / [2020](#)
/ Tobias Keller

GD Geodynamics

The 2020 Division Outstanding Early Career Scientist Award is awarded to Tobias Keller for outstanding scientific contributions related to understanding magma dynamics and igneous systems in the mantle and lithosphere, including the roles of volatiles and reactive flow.

Tobias Keller conducts multidisciplinary frontier research on



Tobias Keller

See <https://www.egu.eu/awards-medals/division-outstanding-ecs-award/2020/tobias-keller/>



And ...

AUGUSTUS LOVE MEDAL 2020

Harro Schmeling

[Home](#) / [Awards & medals](#) / [Augustus Love Medal](#) / 2020 / Harro Schmeling

The 2020 Augustus Love Medal is awarded to Harro Schmeling for his outstanding contributions to understanding the dynamics of the mantle, lithosphere and two-phase flow.

Harro Schmeling has made many outstanding contributions to a large range of topics in geodynamics. These range from developing the first computer models for understanding lithospheric dynamics, addressing coupling between mantle and lithospheric deformation, understanding the physics of melt migration and developing upscaling techniques, to technical developments that helped to advance the numerical geodynamics community.



Harro Schmeling

See <https://www.egu.eu/awards-medals/augustus-love/2020/harro-schmeling/>



GD Award & Medal lectures @ vEGU21 MAL10, this afternoon, 15:00-17:00 (CEST)

15:00–15:20 | EGU21-5339 ★ | GD Divison Outstanding ECS Award Lecture 2020

Numerical modelling of igneous processes ▶

Tobias Keller

15:20–16:00 | EGU21-4971 ★ | Augustus Love Medal Lecture 2020

Melting and melt transport mechanisms in the dynamic earth: from melt segregation, extraction to the formation of crustal magmatic systems ▶

Harro Schmeling

16:00–16:20 | EGU21-13877 ★ | **ECS** | GD Divison Outstanding ECS Award Lecture 2021

Exploring links between geodynamics and climate change ▶

Mark Hoggard and Fred Richards

16:20–17:00 | EGU21-9245 ★ | Augustus Love Medal Lecture 2021

Heterogeneous lithospheric mantle ▶

Irina M. Artemieva



Outstanding Student vPICO (OSPP) Award

Eligible for the **OSPP Award** are students that:

- are first author and personally present the poster at the conference AND
- satisfy one of the following criteria:
 - are a current BSc, MSc, or PhD student OR
 - are a recent undergraduate or postgraduate student (conferral of degree after 1 January of the year preceding the conference) who are presenting their thesis work.

OSPP coordinator: Maëlis Arnould



vOSPP judging at @ vEGU21

09:21-09:23 | EGU21-12246 ★ | ECS | **vOSPP**

Forward Modelling of Bouguer Anomalies along a transect of the Southern Apennines and the Tyrrhenian back-arc basin. ▶

Assel Akimbekova, Paolo Mancinelli, Massimiliano Rinaldo Barchi, Cristina Pauselli, and Giorgio Minelli

30 Apr 2021, EGU21-12246, <https://doi.org/10.5194/egusphere-egu21-12246>, 2021.

Post a comment

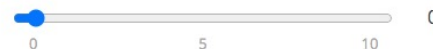
vOSPP judging



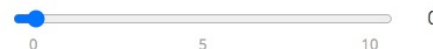
vOSPP judging on display materials

Please rate the display materials with regarding to the 3 given criteria. Hereby, 0 fulfils a criterion the least and 10 fulfils it the most. You can adjust your vote at any time before 30 April 2021.

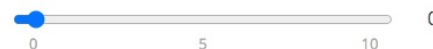
Relevance of the study



Scientific accuracy



Clarity of presentation



Submit vote

- GD has 45 participants
- Minimum of 5 votes needed per participant
- Anyone (not participating themselves) can judge
- Voting until tomorrow!

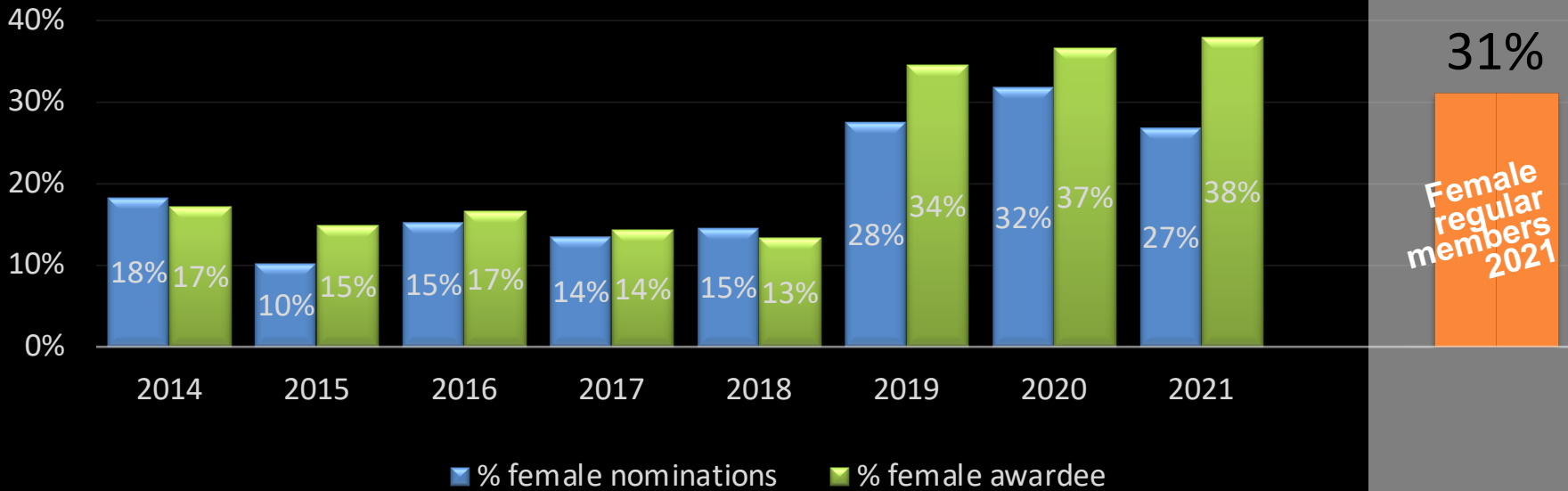


AWARDS & MEDALS

EGU awards & medals

We encourage **all** members to contribute to the awards program by nominating suitable candidates
 When nominating please think about people who may have been overlooked in your discipline

Nominations and awards (Division and Union)



31%
 Female regular members 2021

Over the past years the fraction of awards and medals obtained by women has increased. This is due to the increase in nominations.



EGU Medals: **Please nominate your colleagues !!!**

- Any person is eligible to receive one EGU Medal.
- Any EGU member can submit nomination for a colleague for an EGU medal and awards.
- Nominations for all the medals and awards are to be sent by e-mail by **15 June of each year (absolute deadline)**.

All details are on EGU web-site



How to nominate

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

When: from now to [June 15, 2021](#)

What is required:

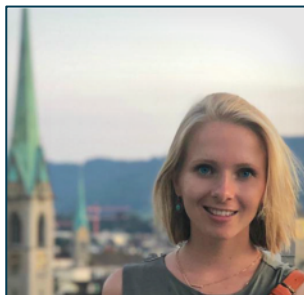
	Division and Union medals	Outstanding Early Career Scientists Awards
Nomination letter	1 page	½ page
Curriculum Vitae	2 pages	1 page
Selected bibliography	2 pages	½ page
Supporting letters	3-5 (maximum 1 page each)	-



GD ECS Report 2020-2021

Anna Gülcher

ecs-gd@egu.eu





ECS achievements “behind the scenes”

- New definition of **Early Career Scientist**
- Recognition of **ECS committee** within EGU
- ECS at vEGU21: leading 3 Great Debates; 34 Short Courses
- 21 **Networking events** led by ECS
- Jobs and Career Center initiatives
- **Outreach**

Early career scientists (ECS) are

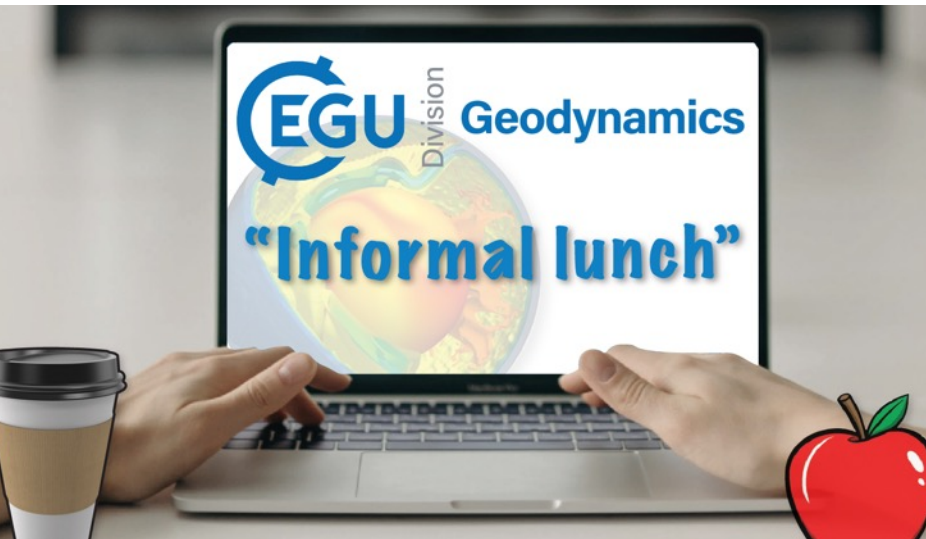
- students (undergraduate or MSc/PhD), or
- scientists who received their highest degree within the past seven years (**may be extended in case of parental/caring responsibilities, disability, personal illness, community obligations, or national**)



GD ECS activities

Virtual networking events:

- **ECS “Informal lunch”**
~ 35 participants
- **Division-wide “Vienna café”**
~ 30 participants



THANK YOU for your participation!

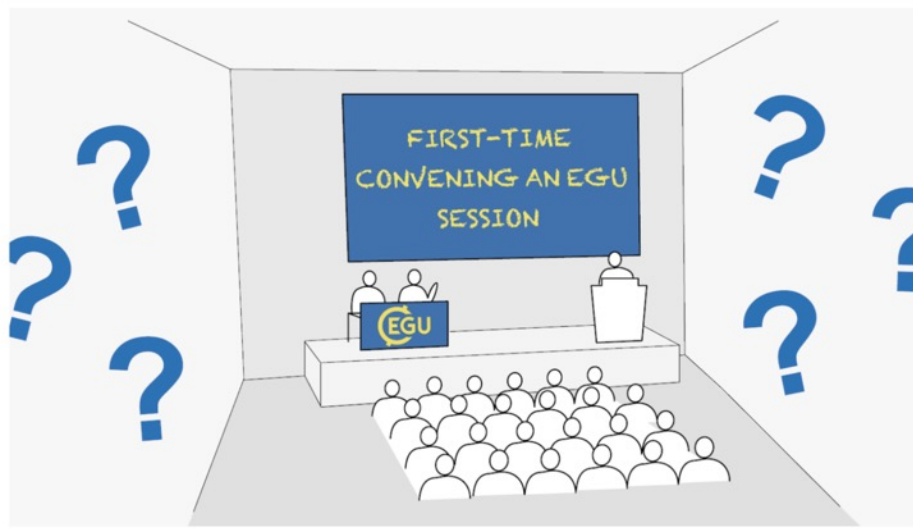


GD ECS outreach

EGU Blogs » GeoLog » First-time convening an EGU session? Some advice from the Early Career Scientists.

First-time convening an EGU session? Some advice from the Early Career Scientists.

Andrea Madella, Anna Gülcher and Tommaso Alberti · November 6, 2020 · Early Career Scientists, EGU GA 2021, General Assembly · No Comments



EGU Blogs » Divisions » Geodynamics » What to expect from vEGU21: virtual General Assembly

What to expect from vEGU21: virtual General Assembly

Anna Gülcher · April 14, 2021 · Conferences, EGU ECS · 1 Comment





GD – social media

- Active **facebook** and **twitter** accounts
- Engagement in science communication, outreach, highlighting events, GD blog, promoting diversity and equality, and fun!
- **THANK YOU** to social media managers!

Interested in joining the team? Don't hesitate to contact us!

ecs-gd@egu.eu



@EGU_GD

(~920 followers)

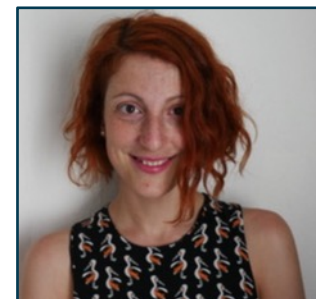


@eguGD

(~600 followers)



Jyotirmoy Paul



Antoniette Greta Grima



Charitra Jain



GD – Geodynamics 101: numerical models

- Friday April 30th 14:30-15:30 **SC4.2**
- Manuscript under review for *EGU: Solid Earth*
- **THANK YOU** to the **Geodynamics 101 team!**

Review status: this preprint is currently under review for the journal SE.

101 Geodynamic modelling: How to design, carry out, and interpret numerical studies

Iris van Zelst^{1,★}, Fabio Cramer^{2,★}, Adina E. Pusok^{3,★}, Anne Glerum^{4,★}, Juliane Dannberg^{5,★},
and Cedric Thieulot^{6,★}



GD ECS – plans for 2021-2022

- Shared (social/scientific) events with neighbouring divisions
→ **virtual “campfires”**
- Keep up active online engagement (blog; social media)
- Social events at other conferences?
- Strengthening voice of ECS within EGU
- **New ECS rep starting at EGU 2022** (open call in winter)



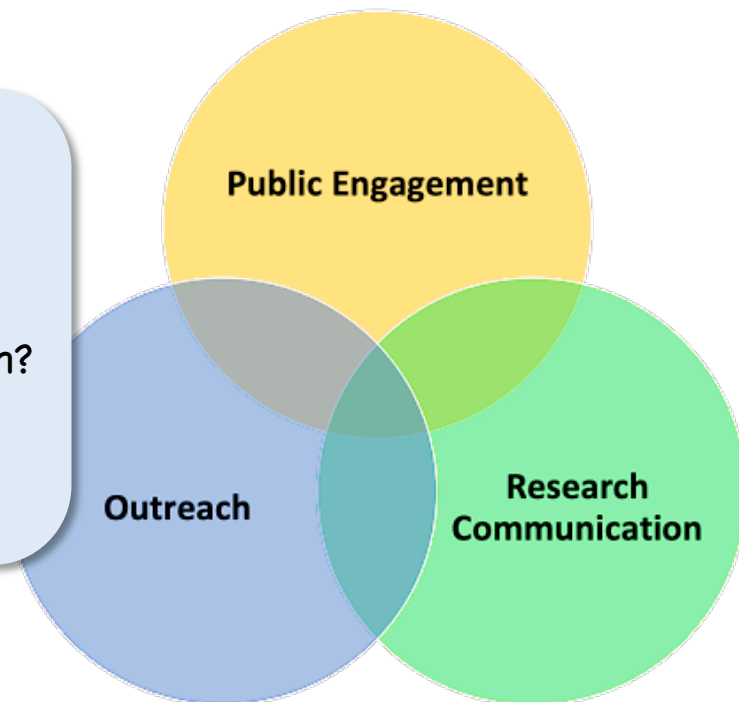


GD – get involved!

- Do you have any thoughts on how the **ECS experience** at EGU could be **improved**? (ecs-gd@egu.eu)
- Want to be **involved** in the team or know more about the roles? (ecs-gd@egu.eu)

Interested in..

- Expanding your network?
- Learning more about EGU “behind the scenes”?
- Contributing to science outreach and communication?
- Expressing your creative ideas?
- Organising social events?





GD Blog Report 2020-2021

Iris van Zelst

i.vanzelst@leeds.ac.uk





The Blog Team



Iris van Zelst



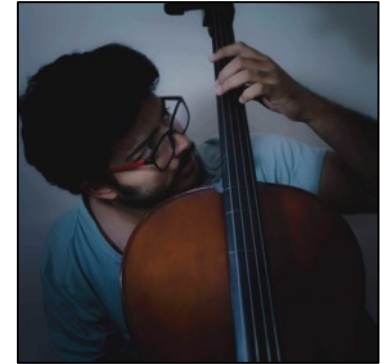
Menno Fraters



Anne Glerum



Anna Gülcher



Jyotirmoy Paul



Antoine Rozel



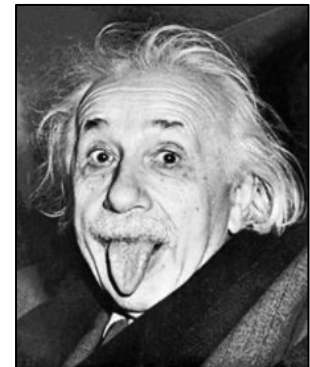
Grace Shephard



Lucía Pérez Díaz



Tobias Rolf



The Sassy Scientist (x3)

Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Guest authors

- Brad Aagaard
- Hendratta Ali
- Ruth Amey
- Rebecca Ebe Ohemeng Appiah
- Estella Atekwana
- Ayodeji Babalola
- Harry Ballantyne
- Wolfgang Bangerth
- Louisa Brotherson
- Fabio Capitanio
- Kar Wai Cheng
- Chris Davies
- Roby Douilly
- Jac van Driel
- Attreyee Ghosh
- Dip Ghosh
- Thyagarajulu Gollapalli
- Moh Gouiza
- Alex Hughes
- Jeroen van Hunen
- Chris Jackson
- Matthew Kemp
- Elodie Kendall
- Anjana Khatwa
- Folarin Kolawole
- Oliver Kreylos
- Stefano Maffei
- Bob Myhill
- Derek Neuharth
- Graeme Nicoll
- Ana-Catalina Plesa
- Kieran Prince
- Adina Pusok
- Maeve Murphy Quinlan
- Fred Richards
- Boris Robert
- Arushi Saxena
- Srishti Singh
- Dan Spencer
- Oliver Strimpel
- Cedric Thieulot
- Nicola Tosi
- Eoghan Totten
- Anthony Osei Tutu
- Jamie Ward
- Leiaka Welcome
- Lori Willhite
- Alexis Wilson
- Jean-Christophe Wrobel-Daveau

Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Some statistics of this blog year

- 100 blog posts (last year: 89)
- > 45,000 unique pageviews (last year: > 30,000)

Visits Over Time



Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



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Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



#Black In Geoscience

- > 8,500 unique pageviews
- > € 15,000 raised for charity!!!



Lucía Pérez Díaz

#BLACK
in **GEOSCIENCE**

<https://blackingeoscience.creator-spring.com/>

The main graphic features the text '#BLACK in GEOSCIENCE' in large, white, bold, sans-serif font on a black background. To the right of the text is a colorful illustration of a raised fist holding a globe. The fist is rendered in shades of blue, green, yellow, and red. The globe is a stylized representation of Earth with green continents and blue oceans. Below the fist and globe, there is a URL: <https://blackingeoscience.creator-spring.com/>.

Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Contribute to the blog!

WANTED:

- Editors
- Topical editors (The PhD Chronicles)
- Sassy scientist columnists
- Illustrators / graphic designers
- Guest authors
- Questions for the Sassy Scientist: thesassyscientist4real@gmail.com

I want **you**
in the blog
team!



Interested in contributing?

Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Governance Review



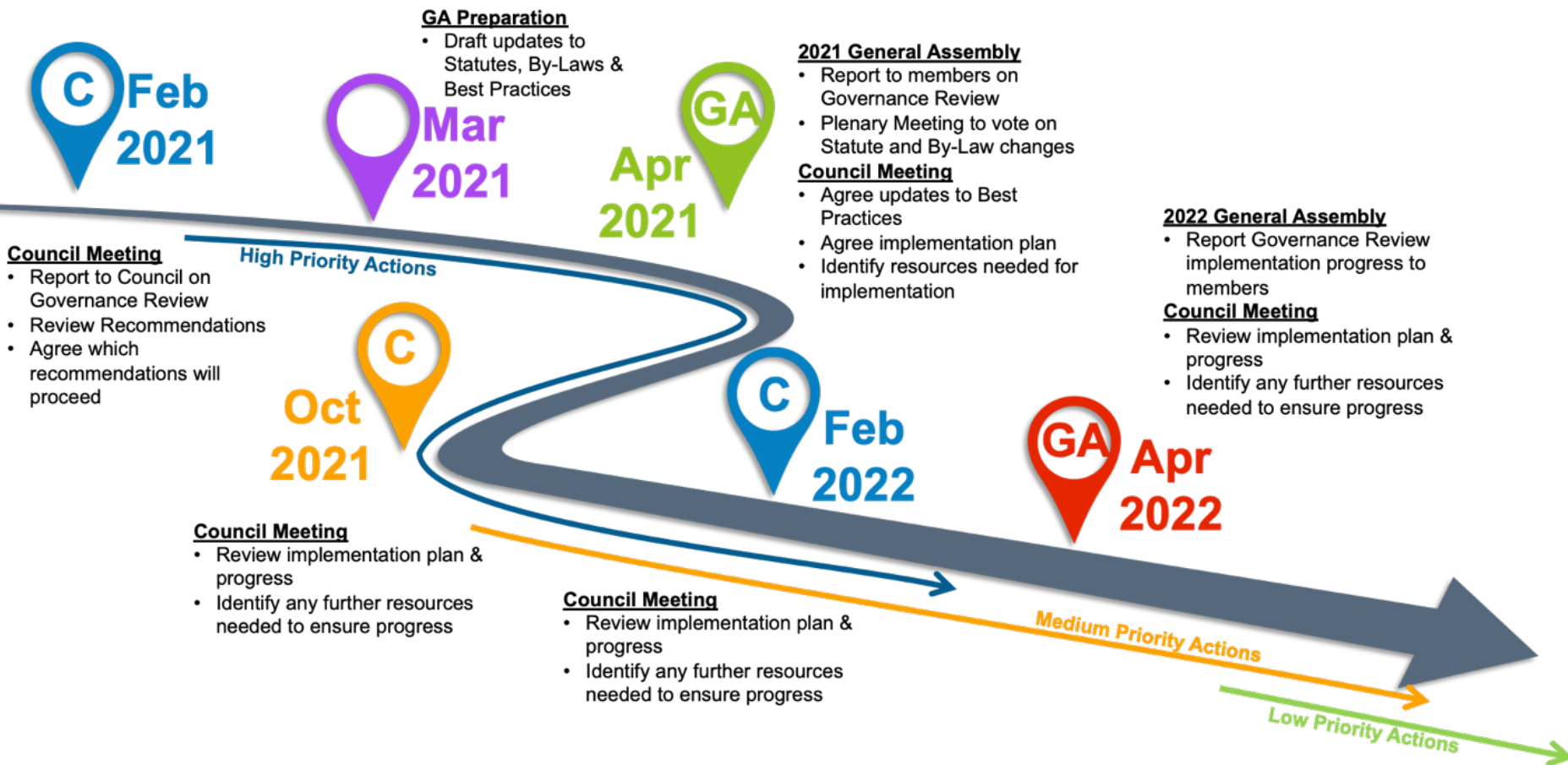
Governance Review

What is the EGU Governance Review?

- EGU has organized a review of their governance structure to establish if all of its structures and policies are still fit for purpose.
- 10-member panel incorporating different aspects of EGU
- <https://www.egu.eu/news/679/egu-governance-review-an-opportunity-for-reflection/>



EGU Governance Review Suggested Implementation Timeline





Structure of the Division

Thanks to Paul for 4 years
of running of the GD division





GD Division structure

President	Jeroen van Hunen
Deputy President	Paul Tackley
Programme Group Chair	Jeroen van Hunen
Science Officers	Phil Livermore Irina M. Artemieva Hans-Peter Bunge Paul Tackley Shun-ichiro Karato
Division Outstanding Early Career Scientists Award Committee Chair	Jeroen van Hunen
Augustus Love Medal Chair	Paul Tackley
OSPP Coordinator	Maelis Arnould
ECS Representative	Anna Gülcher

Election for next President term will happen this autumn



Meeting statistics, feedback and
ideas for the future



vEGU21: Sessions and abstracts, Schedule

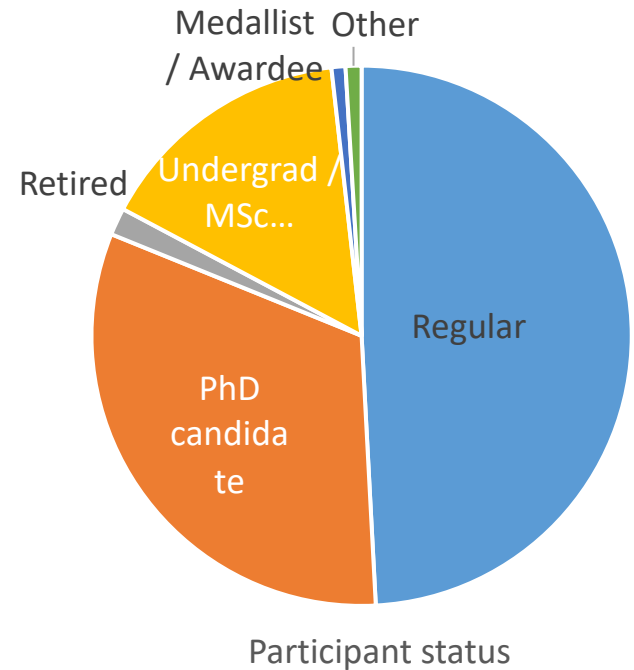
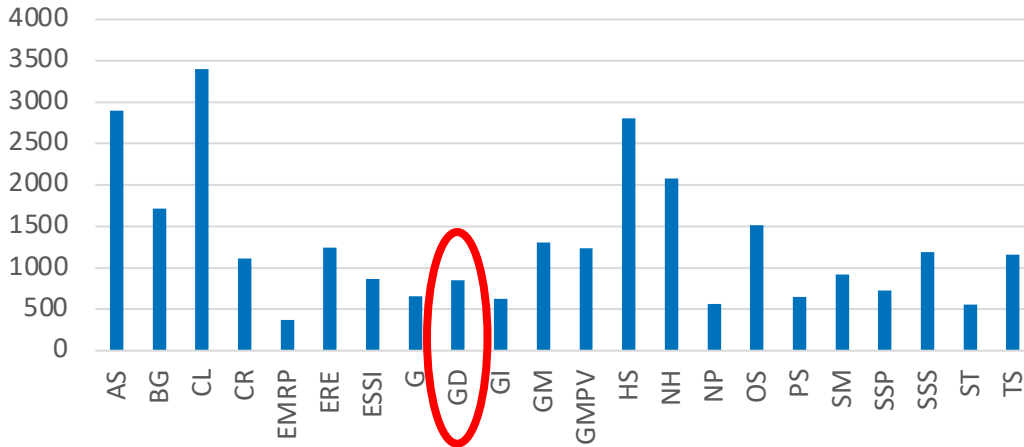
- 13,801 abstracts in programme | -24% relative to 2020
- 843 active sessions | 636 vPICO sessions | 56 Short Courses | 32 Medal and Award Lectures
- Week 1 (19-23 Apr): Union Symposia | Great Debates (Except GDB1) | most Medal and Award Lectures | most Division Meetings | 2 Short Courses per day
- Week 2 (26-30 Apr): 38/39 parallel vPICO sessions | 4 Short Courses per day
- Networking Events (including pop-ups), Townhall Meetings, Side Events during both weeks
- EGU Plenary 19 Apr | Medal & Award celebration 22 Apr | Closing party 30 Apr



vEGU21: Registration numbers and breakdown

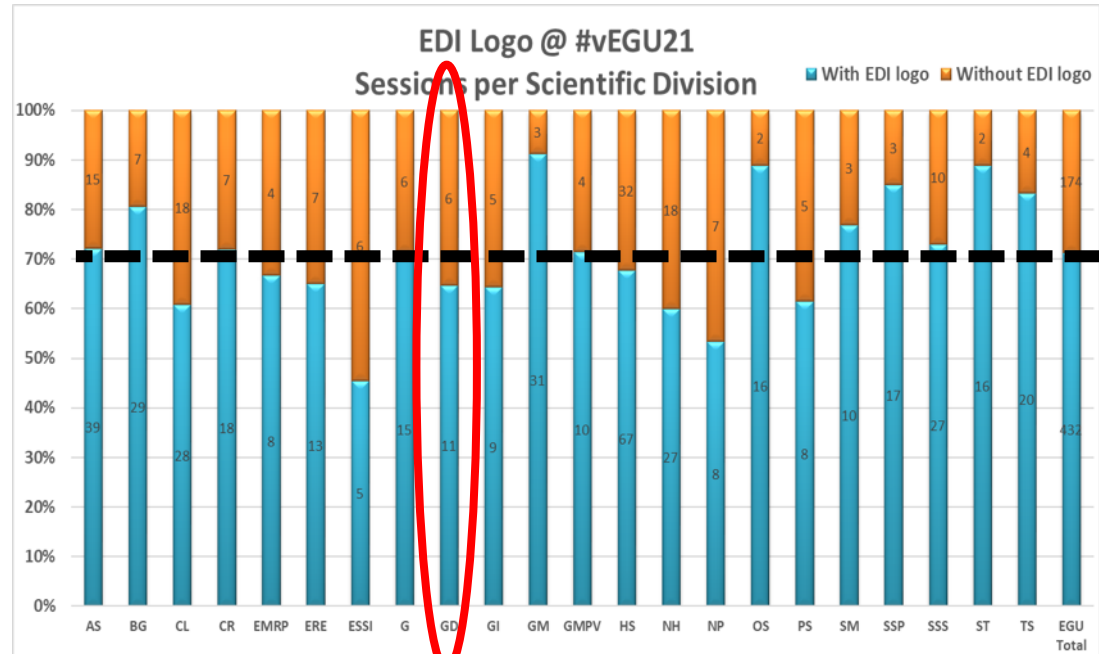
- 13,982 registrations (17 April 2021, 11:30)
- Participants from 126 countries

Participants division affiliation





EDI Logo



Send suggestions to: edilogo@egu.eu

Session conveners fulfill all three criteria:

1. Include conveners from **multiple countries and institutes**
2. Have conveners from **different career stages**, including at least one ECS
3. Include conveners that represent **more than one form of gender identity**



GD led sessions

All sessions

PG abstract statistics

Active scheduled		300
Support applications	None:	0 (0%)
Presentations	vPICO presentations:	300 (100%)
	ECS:	172 (57%)

Meeting abstract statistics

Active scheduled		13,685
Support applications	None:	13,685 (100%)
Presentations	Presentations:	113 (1%)
	vPICO presentations:	13,572 (99%)
Author identification specifics	ECS:	16,666 (122%)

2021: 300 GD abstracts (out of 13,727 in total)

2020: 475 GD abstracts (out of 18,054 in total)

2019: 404 GD abstracts



vEGU21 feedback and ideas for the future

What could be improved if we need to do a virtual meeting again?

What would be the ideal form of EGU-2022?

Feel free to email gd@egu.eu with additional feedback and
Fill in the survey:

<https://egu2021.eu/feedback.html>



Conferences



EGU Galileo conferences

- Address well-focused cutting-edge topics at the frontier of geosciences research.
- 3-5 days meeting for discussion and debate for about 100 participants.
- EGU provides comprehensive organizational support allowing organizing committees to focus on the scientific aspects.
- Aside from partly sponsoring the event, EGU is giving a deficit guarantee.
- **2 stage application process on-line**
- <https://www.egu.eu/meetings/galileo-conferences/>



Topical meetings

EGU co-sponsors

- **conference series**,
 - Alexander von Humboldt Conferences
 - Ada Lovelace Workshops on Mantle and Lithosphere Dynamics
- **training schools**,
for the benefit of all scientists and with special attention to the needs of young scientists.

GD Meetings Calendar

<http://www.egu.eu/gd/meetings/>



Ada Lovelace Workshop on Mantle and Lithosphere Dynamics

Organized by ETH Zürich and Eötvös Loránd University, Budapest

When: 28th Aug – 2nd Sept 2022

Where: Hévíz, Hungary

Contact: ada.lovelace.workshop@gmail.com

Organising committee:

- Paul Tackley
- Attila Balázs
- László Fodor
- László Zoltán
- Anna Gülcher
- Jeroen van Hunen





Publications



Publications

The EGU, through Copernicus Publications, publishes 19 peer-reviewed open access journals covering various topics of the Earth, planetary and space sciences.

Solid Earth – EGU journal in geosciences,

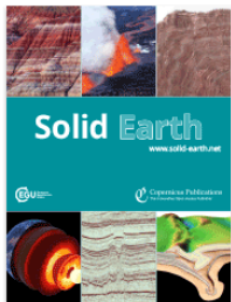
Two-stage publications with public peer-review and interactive public discussions.

The discussion and peer-review of submitted papers are handled in the open access discussion forums (e.g., Solid Earth Discussions).

Final papers, upon acceptance, appear in the corresponding peer-review journals (e.g. Solid Earth).



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



-  OPEN ACCESS
-  INTERACTIVE PUBLIC PEER REVIEW
-  ARTICLE LEVEL METRICS

Executive editors: CharLotte Krawczyk (chief executive editor), Susanne Buitert, 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 2.921

 Clarivate™ IF 5-year 3.087

 Scopus® CiteScore 4.8

 h5-index 35

open access as basic principle
interactive discussion papers



Enter the journal through 4 thematic groups

Tectonic plate interactions, magma
genesis, and lithosphere deforma-
tion at all scales



The evolving Earth
surface: erosional,
sedimentary, mor-
photectonic, and
volcanic processes



Core and mantle
structure and
dynamics



Crustal structure and
composition



We welcome your submissions

Executive editors

Susanne Buiter

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



Joachim Gottsmann

Univ. of Bristol
Dep. of Earth Sciences
United Kingdom



CharLotte Krawczyk

GFZ German Research Centre for Geosciences
Germany



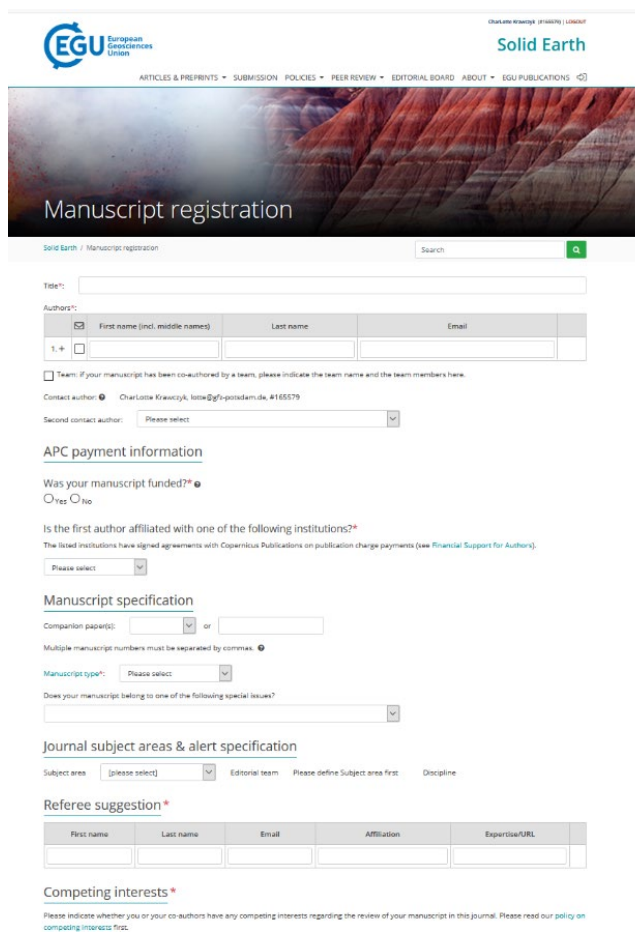
Federico Rossetti

Università Roma Tre
Dipartimento di Scienze
Italy



Arjen Stroeven

Stockholm University
Department of Physical Geography
Sweden

Solid Earth

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Manuscript registration

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Title*:

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1. +	<input type="text"/>	<input type="text"/>	<input type="text"/>

Team: If your manuscript has been co-authored by a team, please indicate the team name and the team members here.

Contact author:

Second contact author:

APC payment information

Was your manuscript funded?*

Yes No

Is the first author affiliated with one of the following institutions?*

The listed institutions have signed agreements with Copernicus Publications on publication charge payments (see Financial Support for Authors).

Manuscript specification

Companion papers: or

Multiple manuscript numbers must be separated by commas.

Manuscript type*:

Does your manuscript belong to one of the following special issues?

Journal subject areas & alert specification

Subject area: Editorial team: Please define Subject area first Discipline:

Referee suggestion*

First name	Last name	Email	Affiliation	Expertise/URL
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Competing interests*

Please indicate whether you or your co-authors have any competing interests regarding the review of your manuscript in this journal. Please read our [policy on competing interests](#) first.



Any other business?