

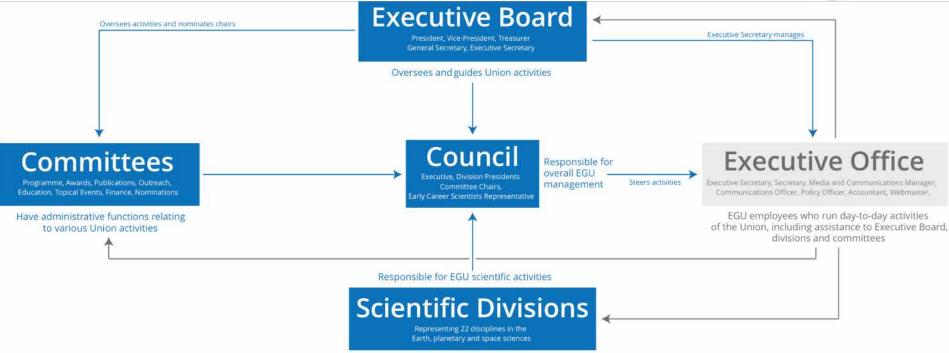
GEODYNAMICS DIVISION MEETING 2019

Agenda:

- 1. Meeting News
- Early Career Scientists & GD Blog
- 3. GD Division Officers and Division Deputy President
- 4. Medals/Awards
 - Augustus Love Division Medal
 - Division Medal Committee
 - Division Early Career Scientist Award
 - Outstanding Student Poster Awards
 - Travel grants
- 5. EGU Publications
- 6. EGU Conferences
- 7. Schedule change EGU-2019
- 8. EGU feedback
- 9. EGU 2020
- 10. Any other business









EGU Members

Bring new ideas and feedback to EGU Vote in EGU elections and stand for positions in Council





EGU News

EGU President (new): Alberto Montanari



Geodynamics Division President (2 yrs, continuing 2 more): Paul Tackley, but

need to elect a new GD president this year







Election of a new division president

- the incoming president will first serve 1 year as deputy president

Nominations – ~September 2019

Voting - ~November 2019

Start as deputy president - EGU 2020

Start as president - EGU 2021





GA 2019 statistics (as of 5 April 2019, 16:48)

- 16,250 abstracts in programme | -6.2% relative to 2018
- (16,922 active abstracts 29 Jan 2019)
- 5,531 orals | 9,432 posters | 1,287 PICOs | ratio 34 / 58 / 8
- 14,283 registrations in advance | +12.17%
- 683 unique scientific sessions | 87 short courses | 338 side events* (total 1108)
- 508 out of 683 scientific sessions are co-organized (74.4%), thereof 24 ITS
- Original sessions 1471; 1108 still active, 363 withdrawn

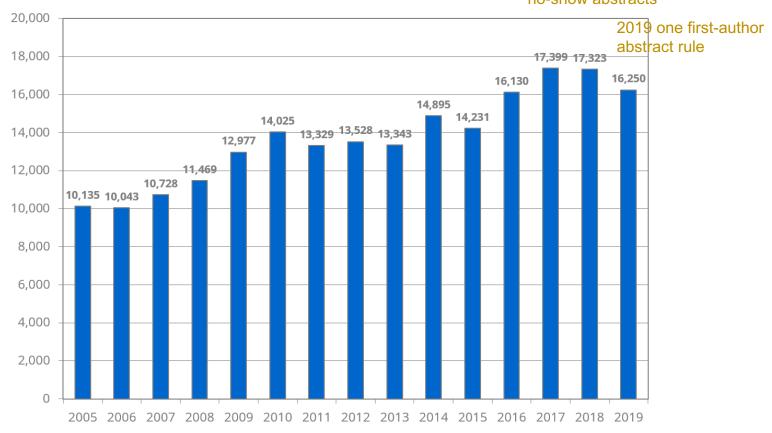
^{*}Side events include the programme groups MAL, PCN, FAM, TSM, SEV, PC, PPAA





Abstracts in programme 2005 – 2019

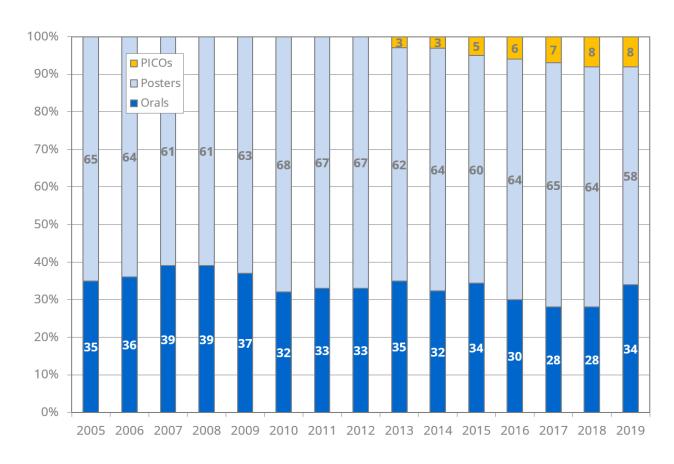
2018 withdrawal of no-show abstracts







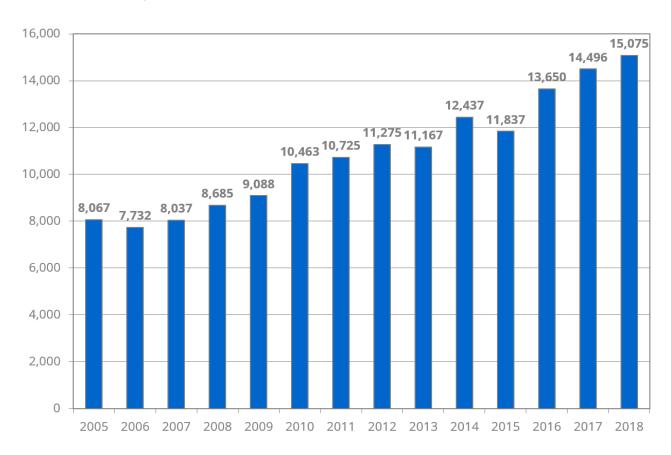
Presentation ratio 2005 – 2019







Participation 2005 – 2018





GD led sessions

all sessions

Programme group statistics

Granted supports	None: 393 (97%)			
	ESTS: 3 (1%)			
	ECSTS: 8 (2%)			
Presentations	Posters: 197 (49%)			
	Orals: 133 (33%)			
	PICOs: 74 (18%)			
Author identification specifics	ECS: 208 (51%)			

Meeting statistics

Active scheduled	16,165
Granted supports	None: 15,869 (98%) ESTS: 24 (0%) ECSTS: 272 (2%)
Presentations	Orals: 5,521 (34%) PICOs: 1,280 (8%)
	Posters: 9,364 (58%)

404 GD abstracts; Last year 481



GA 2019: Notable things

- An inclusive General Assembly
- An accessible General Assembly (child care, quiet rooms, prayer rooms, disabled access...)
- Person of trust
- Greener General Assembly (CO2 offsets, EGU today & programme book online only, BYO water bottle)
- Job Centre
- Artists-in-residence (illustrator & sculptor)
- Science-and-society events
- Public Lecture (yesterday)
- 88 short courses (last year 70).
- Mentoring programme matched 161 mentees with 104 mentors





GD ECS Report

Nicholas Schliffke

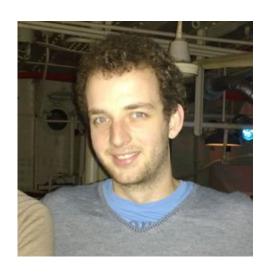




New representative since 2018

Nicholas Schliffke

- Elected until 2020
- PhD student working in Durham with Jeroen van Hunen
- Contact: ecs-gd@egu.eu



Thanks to Adina Pusok for all her fantastic work in the last years!





GD ECS activities at EGU 2019

- Informal lunch on Monday (~30 attendees)
- ECS dinner on Wedesday (~35 attendees)
- ECS drinks together with SM and TS division (>200 attendees)
- Geodynamics 101a: Numerical modelling
- Geodynamics 101b: Large-scale geodynamic processes



Dinner @EGU 2019





Planned GD ECS activities

- Repetition of social events and workshops at EGU 2020
- ECS event at Ada Lovelace workshop
- Co-operation with Blog team to strengthen social media presence
- Find new volunteers to enlarge ECS team



Dinner @EGU 2019

New ECS team members needed:

Please contact myself or any other ECS team member for more information!

https://blogs.egu.eu/divisions/gd/

Regular features:

- Geodynamics 101
- Wit & Wisdom
- Remarkable Regions
- Peculiar Planets
- ECS events
- And more ...



https://blogs.egu.eu/divisions/gd/

Editors 2018 - 2019

- Iris van Zelst
- Luca Dal Zilio
- Anne Glerum
- Diogo Lourenço
- Grace Shephard

https://blogs.egu.eu/divisions/gd/

Editors 2018 - 2019

- Iris van Zelst
- Luca Dal Zilio
- Anne Glerum
- Diogo Lourenço
- Grace Shephard

<u>Guest authors 2018 - 2019</u>

- Manar Alsaif
- Marie Bocher
- Kiran Chotalia
- Robert Citron
- Fabio Crameri
- João Duarte
- Rene Gassmöller
- Lars Gebraad
- Antoniette Greta Grima

- Matthew Herman
- Krister Karlsen
- Laurent Montesi
- Jyotirmoy Paul
- Adina Pusok
- Nico Schliffke
- Katy Willis
- Jonny Wu

https://blogs.egu.eu/divisions/gd/

Some "statistics" of blog year 2018- 2019

• 33 blog posts

https://blogs.egu.eu/divisions/gd/

Some "statistics" of blog year 2018- 2019

- 33 blog posts
- >100 views per blog post
- >10,000 visits from May 25, 2018 April 4, 2019
- >15,000 pageviews from May 25, 2018 April 4, 2019

https://blogs.egu.eu/divisions/gd/

Some "statistics" of blog year 2018- 2019

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- worldwide readership

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- >15,000 pageviews from May 25, 2018 April 4, 2019
- many returning visitors
- worldwide readership

- 1. United States
- 2. United Kingdom
- 3. Germany
- 4. China
- 5. Spain
- Poland
- 7. France
- 8. Norway
- 9. Netherlands
- 10. Italy

https://blogs.egu.eu/divisions/gd/

Some "statistics" of blog year 2018- 2019

- 33 blog posts
- >100 views per blog post
- >10,000 visits from May 25, 2018 April 4, 2019
- >15,000 pageviews from May 25, 2018 April 4, 2019
- many returning visitors
- worldwide readership

1.	United States	84.	Morocco
2.	United Kingdom	85.	Mozambique
3.	Germany	86.	Myanmar (Burma)
4.	China	87.	Nepal
5.	Spain	88.	Pakistan
6.	Poland	89.	Papua New Guinea
7.	France	90.	Rwanda
8.	Norway	91.	San Marino
9.	Netherlands	92.	Trinidad & Tobago
10.	Italy	93.	Turkmenistan







https://blogs.egu.eu/divisions/gd/

We are looking for:

- Guest authors
- Blog editors

You can write about anything!

previous topics include:

peer-review subduction analogue modelling inverse theory Mars skiing disability
Winnie-the-Pooh presentation skills magma oceans Alaska karaoke







Division structure

Proposal for Division Officers

GD Division Officers

Deputy President: Jeroen van Hunen

Irina Artemieva

Phil Livermore

Hans-Peter Bunge

Shun Karato

To be approved by the Division Meeting



GD3

GD4

GD5

GD6

GD7

GD8

GD9

GD10

Mantle Dynamics and Long Term Deep Interior-

Plate Tectonics: Subduction, Collision, Rifting

Experimental/Theoretical Studies on Earth Materials

Modelling and data processing: computation and

Integrated Geophysical Observations and Modelling

Surface-Exterior Interactions

Regional Geodynamics

Relevant to Geodynamics

Planetary Geodynamics

Core Dynamics

analogue models

Are	
- E	
1	
	4.4

4+2 Paul Tackley

1+0

4+8

2+5

1+5

1+3

0+3

Phil Livermore

Paul Tackley

Paul Tackley

Paul Tackley

Irina Artemieva

2+1 Shun Karato

Hans-Peter Bunge

Gend	vnamics	Division	Meeting
	yriairiioo	DIVIDIOIT	Modulig

	Programme Group	N	Division Officers
GD1	General, Interdisciplinary and Topical	2+2	GD President
GD2	Crust, Lithosphere, and Asthenosphere: Observations and models	3+5	Irina Artemieva





The EGU Awards & Medals:

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 (J-P. Brun, T. Torsvik, C. Laj, K. Burke, S. Cloetingh, V. Courtillot, ...)
- The Union <u>Arne Richter Outstanding Early Career Scientists Awards</u>

At Division level:

- The Division <u>Outstanding Early Career Scientists Award</u> (1)
- The <u>Division Augustus Love Medal</u> for a distinguished scientist (1).

In relation with its General Assemblies, EGU presents the <u>Outstanding Student Poster/PICO (OSPP) Award</u> to further 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.





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.

The EGU Augustus Love Medal: previous recipients



2006: Jerry X. Mitrovica (Harvard, USA)

2007: David Gubbins (Leeds, U.K.)

2008: Richard J. O'Connell (Harvard, USA)

2009: Ulrich R. Christensen (Max Planck Inst., Germany)

2010: Philip England (Oxford, U.K.)

2011: Bradford Hager (MIT, USA)

2012: Yanick Ricard (ENS-Lyon, France)

2013: Michael Gurnis (CalTech, USA)

2014: Shun-Ichiro Karato (Yale, USA)

2015: Gregory Houseman (Leeds, U.K.)

2016: Jason Phipps Morgan (Royal Holloway, U.K.)

2017: Barry Parsons (Oxford, UK)

2018: Edgar Marc Parmentier (Brown U., USA)

The 2019 Augustus Love Medal is awarded to

Anne Davaille

"The 2019 Augustus Love Medal is awarded to Anne Davaille for innovative experiments and analysis in fluid mechanics, which have created a new understanding of convective regimes within the mantles of the Earth and other planets and of their magmatic systems."



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).
- Candidates for the Union and Division medals are evaluated by the respective Medal Committees and finally approved by the Council.
- Medal committees consist of previous recipients

All details are on EGU web-site





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.

Nominations for medal committees are discussed at business meeting and are appointed by the Council.





GD Medal Committee

2019 proposal

Committee Chair	Committee Members without Ex-Officio Members	Term #	Medal (year)
Jeroen van Hunen	Anne Davaille	1	2019
	E. Marc Parmentier	2	2018
	Barry Parsons	3	2017
	Jason Phipps Morgan	4	2016

To be approved by the Division Meeting

Nominations for medal committees are discussed at the GD division meeting and are appointed by the Council.





The Division Outstanding Early Career Scientist Award

Early career scientist:

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





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.

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



Arne Richter Award for Outstanding Early Career Scientists Nominated by the GD Division

The 2019 Arne Richter Award for Outstanding Early Career Scientists

Mathew Domeier

for outstanding accomplishments reconstructing tectonic plate evolution in the past 600 million years and in understanding the link between the evolution of plates and the deep Earth.



Medal lecture (Tuesday): On the stability of Earth's degree 2 mantle structure



EGU Geodynamics Division Outstanding Early Career Scientist Award

Previous recipients:

2011: Boris Kaus (Arne Richter OYSA)

2012: Richard Foa Katz

2013: Juan Carlos Afonso

2014: Rhodri Davies

2015: Manuele Faccenda (Arne Richter OYSA)

2016: Grace Shephard (Arne Richter OYSA)

2017: Nicolas Flament

2018: Thibault Duretz





The Division Outstanding Early Career Scientist Award

Nominations for all the medals and awards are to be sent by e-mail by 15 June of each year (absolute deadline).

Please nominate your young colleagues !!!



The Division Outstanding Student Poster \ PICO Award

Outstanding Student Poster/PICO (OSPP) Award

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

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



Outstanding Student Poster (OSP) Award

	Correctness of methods and information	
Scientific content	Significance of the work	
	Originality and creativity of the approach	
	Conclusions supported by data and analysis	
	Authors knowledge of the subject matter and comprehension of prior research in the field	
Presentation technique	Organization and logical structure (e.g., clearly stated questions, results and conclusions) Visual clarity (clarity of figures, appropriate font sizes, effective use of space, headings,) Aesthetic appeal (layout, use of color, density of information, neatness,) Good writing (easily readable, spelling, grammar)	
	Ability to answer questions	

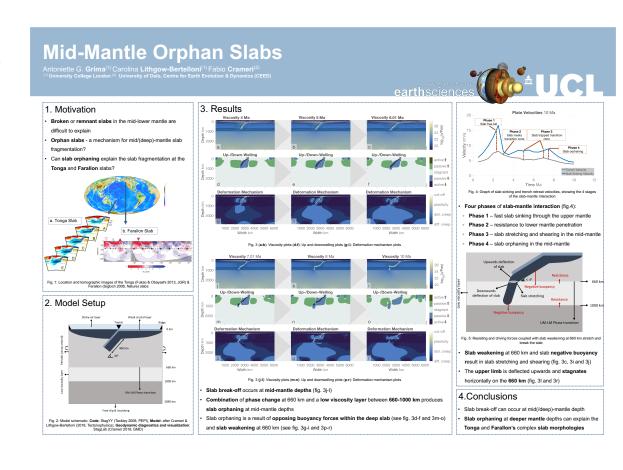


Outstanding Student Poster/PICO Awards EGU-2018 contest: 2 winners

Antoniette Grima



Mid-Mantle Orphan Slabs



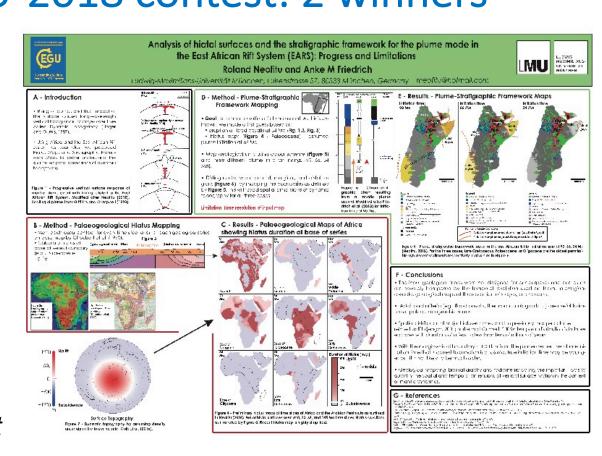


Outstanding Student Poster/PICO Awards EGU-2018 contest: 2 winners

Roland Neofitu



Analysis of hiatal surfaces and the stratigraphic framework for the plume mode in the East African Rift System (EARS): Progress and Limitations







OSPP coordinator (new): Maelis Arnould

Thanks to Jean-Arthur Olive for 2 years!

Students:

Please don't forget to register next year

Seniors:

please volunteer to be OSPP judges !!!

Ca. 50 OSPP registered for EGU-2016

46 OSPP registered for EGU-2017

57 OSPP registered for EGU-2018

50 OSPP registered for EGU-2019



Roland Schlich Travel Support





EGU Roland Schlich Travel Support

Two types of awards:

ECSTS – early career scientist's Travel Support ESTS – established scientist's Travel Support

Scheme	Target audience	Approximate Funding allocation	Funding
Young Scientist's	Young scientists (world wide with earmarked funds for European	EED: 30-35%	 Registration APC Maximum of €300 travel expenses
Travel Award (YSTA)		Other countries: 50-60%	
Established Scientist's Travel Award (ESTA)	Established scientists (low and lower middle income countries)	10-20%	





Publications

The EGU, through Copernicus Publications, publishes 18 peerreviewed open access journals covering various topics of the Earth, planetary and space sciences.

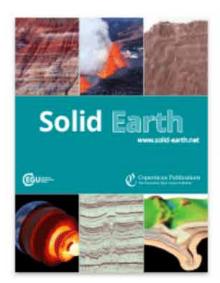
Solid Earth – EGU journal in geosciences, IF=4.156 (2018, Thomson Reuters)

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 peerreview journals (e.g. Solid Earth).

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





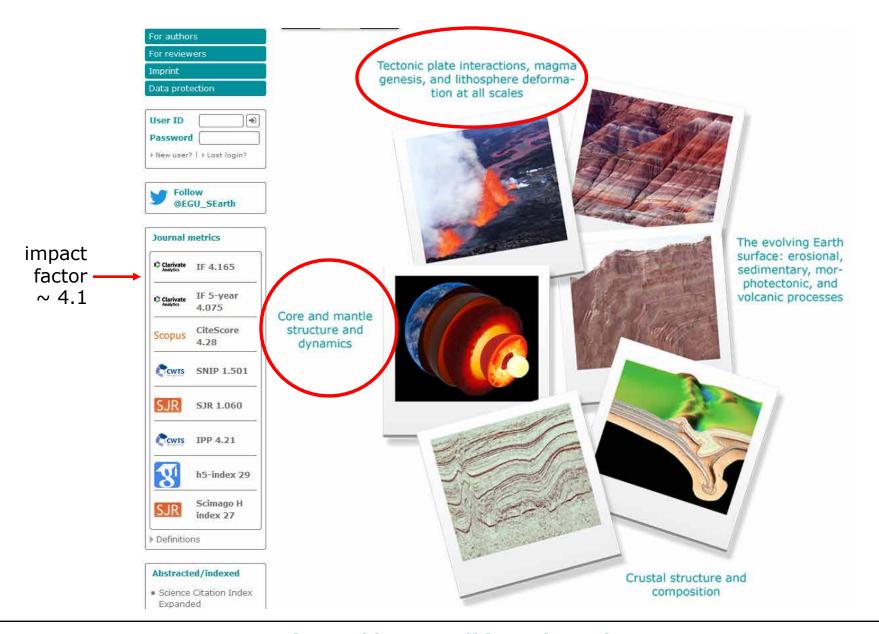


Executive editors: CharLotte Krawczyk (chief executive editor), Susanne Buiter,
Joachim Gottsmann, Federico Rossetti & Elias Samankassou
Advisory board: Sierd Cloetingh (chairman), Jean-Pierre Brun, Donald B. Dingwell, Bilal Haq,
John Ludden, Hans Thybo & Trond H. Torsvik

Solid Earth (SE) 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.

Open access as basic principle Interactive discussion papers

Enter the journal through 4 thematic groups



Continue from there to disciplines



Solid Earth

An Interactive open-access journal of the European Geosciences Union

EGU.eu | EGU Publications | EGU Highlight Articles | Contact | Imprint | Data protection |



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Special issues

Peer review

For authors

Imprint

For reviewers

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Articles



Core and mantle structure and dynamics

Relevant editorial teams:



- Geochemistry, mineralogy, petrology, and volcanology | J. Gottsmann, A. di Muro, M. Heap, A. Longo, and P. Rey
- Seismics, seismology, geoelectrics, and electromagnetics | C. Krawczyk, M. Malinowski, T. Nissen-Meyer, I. Bianchi, and C. Beghein







Recent papers

27 Mar 2019

Actors, actions and uncertainties: Optimizing decision making based on 3-D structural geological models

Fabian Antonio Stamm, Miguel de la Varga, and Florian Wellmann Solid Earth Discuss., https://doi.org/10.5194/se-2019-57, 2019 Manuscript under review for SE (discussion: open, 0 comments)

27 Mar 2019

The internal structure and composition of a plate boundary-scale serpentinite shear zone: The Livingstone Fault, New Zealand

Matthew S. Tarling, Steven A. F. Smith, James M. Scott, Jeremy S. Rooney, Cecilia Viti, and Keith C. Gordon Solid Earth Discuss., https://doi.org/10.5194/se-2019-62, 2019

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

▶ Short summary

Evolution of a long-lived continental arc: a geochemical approach (Arequipa Batholith, Southern Peru)

Sophie Demouy, Mathieu Benoit, Michel de Saint-Blanquat, and Jérôme Ganne

Solid Earth Discuss., https://doi.org/10.5194/se-2019-43, 2019

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

▶ Short summary

26 Mar 2019

Fault slip envelope: A new parametric investigation tool for fault slip based on geomechanics and

User ID

Password

New user? | Lost login?



Journal metrics

Clarivate

IF 4.165

We welcome your submissions!

Executive editors

CharLotte Krawczyk (chief executive editor)

GFZ German Research Centre for Geosciences Telegrafenberg D-14473 Potsdam Germany



Susanne Buiter

Geological Survey of Norway Norway



Joachim Gottsmann

Univ. of Bristol, Dep. of Earth Sciences United Kingdom



Federico Rossetti

Università Roma Tre, Dipartimento di Scienze Largo S. L. Murialdo, 1 00146 Roma Italy



Elias Samankassou

University of Geneva, Department of Earth Sciences Rue des Maraichers 13 CH-1205 Geneva Switzerland



- This is the journal by our community, for our community
- Open access as basic principle
- Interactive discussion papers
- Contact us if you have any questions or suggestions:
 - https://www.solidearth.net/editorial_board.html
 - susanne.buiter@ngu.no





Solid Earth Impact Factor

2018 Thomson Reuters

- EPSL 4.581
- GRL 4.339
- Solid Earth 4.156
- JGR-SE 3.482
- Gcubed 2.981
- PEPI 2.156
- Geosci. Model Development 4.252



- Nature Geoscience 14.391
- Gondwana Research 5.657





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.





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/



2019 Ada Lovelace Workshop

WELCOME DAILY PROGRAMME REGISTRATION AND ABSTRACT INFORMATION SCIENTIFIC PROGRAM VENUE SCIENTIFIC COMMITTEE AND ORGANIZERS

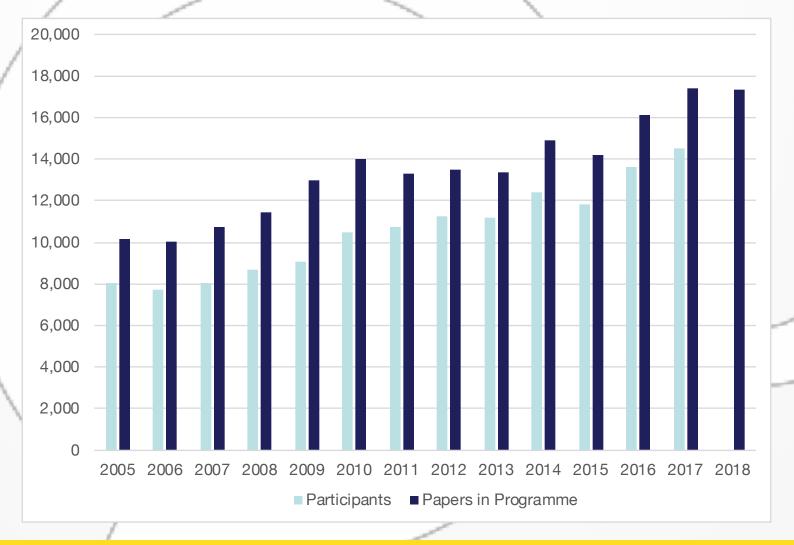




Registration deadline 1° May 2019

Future format General Assembly

Papers in programme 2005–2018 and participants 2005-2017





Future format General Assembly

The need for a change

- We may reach maximum poster capacity in ~2 years
- Oral sessions can reach 80% median room fill in ~2 years, meaning 50% of the rooms will be full to overfull
- There is no possibility for new rooms or extra space in the ACV
- EGU has signed a contract with the ACV until 2024
- 60% 65% (2013-2018) of abstracts are posters, which are presented in 1.5 hours only

→ We need to act



Future format General Assembly

-2018 version (6h orals)

	3	The second secon
TB1	Orals, PICO	and the same of th
Break		
TB2	Orals, PICO	
Lunch	/ /	
TB3	Orals, PICO	
Break	/ /	
TB4	Orals, PICO	
Break		_
TB5	Posters, drinks	5
TB6	Medal lect, TM	

- 4800 orals
- 1800 PICO
- 12500 posters (full day)
- Poster capacity full ~2020
- Room fill issues 2020/2021

2019 version (7h orals)

	The state of the s
TB1	Orals, PICO, Posters
Break	
TB2	Orals, PICO, Posters
Lunch	
TB3	Orals, PICO, Posters
Break	
TB4	Orals, PICO, Posters
TB5	Exhibition, drinks
TB6	Medal lectures, TM

- 5600 orals
- 1800 PICO
- 12500 posters (full day).
- Poster capacity full by ~2023.
- Double poster capacity to 25000 by half-day showing time
- No room fill issues next 10 years

(AGU - 8h orals)



GA 2020 timeline (provisional)

1 – 20 Jun 2019

Call-for-skeleton. Sub-programme structure only

24 Jun – 15 Aug 2019

Public call for GDB and US

24 Jun – 5 Sep 2019

Public call-for-sessions, incl SC

9 Sep - 9 Oct 2019

Session programme finalization

9 Oct 2019

PC Meeting Ismaning

1 Dec 2019

Support application deadline

15 Jan 2020

Abstract submission deadline





PLEASE SUBMIT YOUR PROPOSALS FOR EGU-2020 SESSIONS!

PLEASE TALK TO EACH OTHER – TO JOIN FORCES ON CLOSE TOPICS



EGU-2019 feedback

What can be improved?

What were the problems?

- Sessions?
- Rooms?
- Organization?
- Information?
- Food?





Any other business?



