Division Meeting Hydrological Sciences

Maria-Helena Ramos

Thursday, 22 April, 11:30 – 12:30



Meetings | Publications | Outreach | www.egu.eu





- 1. vEGU21: News from the EGU Programme Chair
- 2. HS Division programme at a glance
- 3. SubDivision (SD) Chairs
- 4. Early Career Scientists activities and ECS reps
- 5. HS Blog, Outreach and Communication Division Committee
- 6. Medal Committees & Division Medallists and Awardees 2021
- 7. Outstanding Student Posters and PICOs: coord. & awardees
- 8. Hydrology and Earth System Sciences (HESS) Journal: report & awards
- 9. News from the Union
- 10. Any other business



vEGU21: News from the EGU Programme Chair



Peter van der Beek

- 13,801 abstracts in programme | -24% relative to 2020
- 843 active sessions (636 vPICO, 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



NEWS & PRESS

EGU news

#EGUart

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vEGU21: News from the **EGU Programme Chair**

EGU announces new Science for Policy

EGUGeneral

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(EN # SOOL Same

Working Group!

EGU21 has begun! We will present highlights from

I. #ESOTC More on our events at #EGU: C35 https://t.co/kkO4vXibOI CAMS

RT @milankloewer: Attending #vFGU21 this year?

ou've just saved many million kg of carbon by not flying to Vienna @EGU would have emitted 25,000,000 kgCO2 by the end of next week: 26kg

every second due to attendees flying in long-haul. The carbon clock is ticking... https://t.co/3Y24IOhqXb

Medal & Aw Short

any people've observed how the global pandemic has bro

about changes that climate scientists have long been calling for, but

e European State of the Climate 2020 Report as part

f a dedicated session with some of our scientists on 26

Curious about these? 1. Groundwater complexity is amazing and mesmerizing! 2. Water EGU management is always local but wider (open) info is also needed! 3. We can implement les

furious karst approaches in hydrology! Join us today #vEGU21 Award lectures @EGU_HS 15:0

#vEGU21

(CEST) MAL14a

X





Networking: Gather.town,

Viennese café, quiet room,...

spontaneous networking events

Teaching/scientist pairing scheme pilot project

4

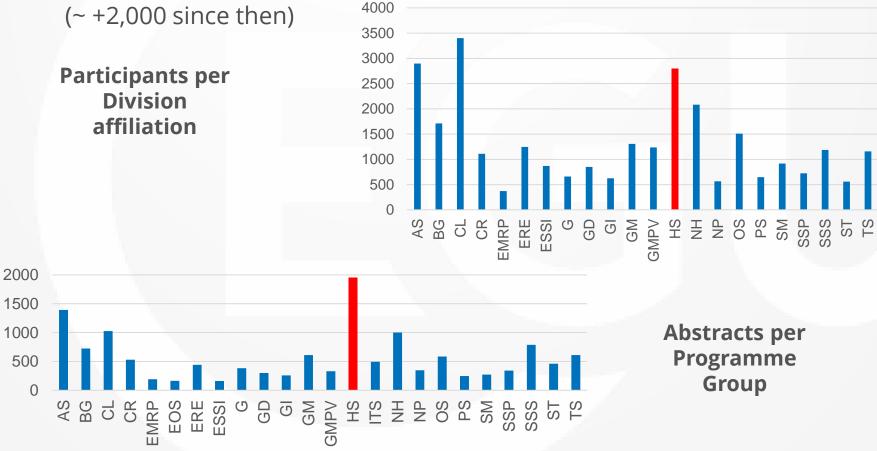


vEGU21: News from the EGU Programme Chair



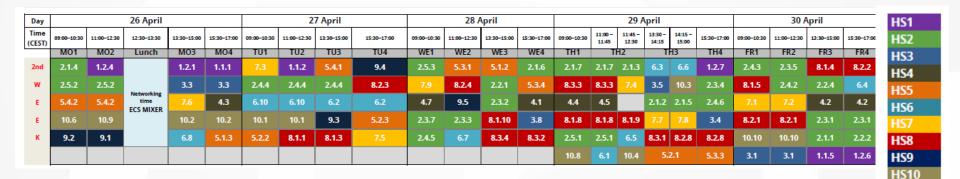
13,982 registrations (17 April 2021) from 126 countries

Peter van der Beek





99 sessions, ~2,000 abstracts (14% of GA) | -18% relative to 2020



- 2 Medals & Awards sessions: Tue 20 Apr 15:00, Thu 22 Apr 15:00
- HS Division meeting and SD meetings
- Participation to Science for Policy WG and Policy-related events & sessions at vEGU21

Hydrological Sciences (HS) mailing list

Subscribe at: https://lists.egu.eu/cgi-bin/mailman/listinfo/hs





Subdivisions of the HS Division



Subdivision on Catchment hydrology



Subdivision on Ecohydrology, wetlands and estuaries



Subdivision on Erosion, sedimentation & river processes



Subdivision on Hydroinformatics



Subdivision on Hydrological forecasting



Subdivision on Precipitation & climate



Subdivision on Remote sensing & data assimilation



Subdivision on Subsurface hydrology (Groundwater)



Subdivision on Subsurface hydrology (Vadose zone)



Subdivision on Water policy, management and control

 10 Subdivisions, including a subdivision on general hydrology (monitoring and cross cutting issues)



General hydrology (Monitoring and cross cutting issues) HS1: Maria-Helena Ramos (HS president) Elena Toth (HS deputy-president/past-president)



INRAE, France



University of Bologna, Italy

Catchment Hydrology HS2: Kerstin Stahl Alberto Viglione



University of Freiburg, Germany



Politecnico di Torino, Italy



Hydroinformatics HS3: Maurizio Mazzoleni



Uppsala University, Sweden

Hydrological Forecasting HS4: Ilias Pechlivanidis



SMHI, Sweden



Water policy, management and control HS5:

Andrea Castelletti (outgoing)



Politecnico di Milano, Italy

Andrea Cominola (incoming)



Einstein Center Digital Future and Technische Universität Berlin, Germany

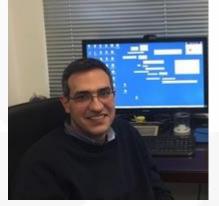


Remote sensing & data assimilation HS6: Chiara Corbari



Politecnico di Milano, Italy

Precipitation and Climate HS7: Andreas Langousis



University of Patras, Greece



Subsurface hydrology **HS8**:



Monica Riva (outgoing)

Irina Engelhardt (incoming)



Politecnico di Milano, Italy



Technische Universität Berlin, Germany

Vadose zone: **Stefano Ferraris**



Università degli Studi di Torino, Italy



Erosion, sedimentation & river processes HS9: Stefan Haun

Estuaries, wetlands & ecohydrology HS10: Anke Hildebrandt



University of Stuttgart, Germany

Friedric and He Enviror German

Friedrich Schiller University Jena and Helmholtz Centre for Environmental Research–UFZ, Germany



Early Career Scientists activities & ECS reps

ECS rep and ECS co-rep for the HS Division:

Caitlyn Hall (2019-2021) (outgoing)

Sina Khatami (2020-2022)





Arizona State University, USA

Stockholm University, Sweden

Elena Cristiano (2021-2023) (incoming)



Università degli studi di Cagliari, Italy



Early Career Scientists activities & ECS reps

Things we did last year:

- 1. Prioritized sharing career opportunities to ECSs on social media
- 2. Collaborated with other divisions to become more connected at EGU
- 3. Further collaborated with international ECS groups to develop global community
- 4. Brought new voices to the forefront via social media, the HS blog, etc.

Things we plan for next year:

- 1. Develop videos to help students build skills (e.g., statistical analysis in R)
- 2. Expand reach to community members in other underrepresented countries (with YHS, AGU, etc.)



HS Blog, Outreach and Communication Division Committee

Main Editor Blog



Bettina Schaefli

Webmaster



Miriam Coenders

- https://www.egu.eu/hs/home/
- https://blogs.egu.eu/divisions/hs/ •

Blog Editorial Team:



Giulia Zuecco

Maria-Helena Ramos

Outgoing:



Matthias Sprenger



Wouter Berghuijs



Incoming:

Sina Khatami





Caitlyn Hall

Bailey Anderson





HS Blog, Outreach and Communication Division Committee



EGU Blogs » Divisions » Hydrological Sciences

Hydrological Sciences

How do you picture female scientists?

Bettina Schaefli · March 31, 2021



Photo by Joshua Hoehne on Unsplash

You might have heard about the film "Picture a scientist" by Sharon Shattuck & Ian Cheney. It shows the personal struggle of three women to overcome gender barriers in science. In doing so, it highlights three key issues: prejudices and biases against women related directly to the history of the university that have never been challenged (this part of the film is subtly underlined by the histo ... [Read More]

Open teaching to navigate hydrology: how ready are we?

Open your heart, science and data – and welcome Res. 42 by WMO

Nilay Dogulu · March 17, 2021



Boundaries and limits. Everyone had a pleasant and rich (hopefully) taste of these concepts in 2020. Time-wise, workwise, and heart-wise among many others. Openness, tolerance and love. Everyone rightfully acknowledged the dearness of these feelings (probably) at the utmost level, again in 2020 – a year quite likely to be remembered as one of those soul-shattering years in the human history. Why d ... [Read More]

Equity, Diversity, and Inclusivity amidst COVID-19

ABOUT

Welcome to the blog of the Hydrological Sciences (HS) Division of the European Geosciences Union (EGU). This blog is a platform to communicate new ideas and old thoughts, a bit of history and future perspectives, as well as a glimpse at experimental and modelling studies. In other words, it is a platform to share news, research and opinions on hydrological processes and applications, including interactions between hydrology and other disciplines in geosciences. Everybody is invited to contribute to the blog and submit posts to the Editorial Team.



SUBSCRIBE TO BLOG



EGU DIVISION BLOGS



EGU NETWORK BLOGS

At a Glance

- 📌 53 Posts
- 47 Comments
- Amazing experience
- Development of science communication skills
- Interested in contributing?
- 1-2 pages of text and 1-2 figures

Volunteers for HS Blog are welcome: authors and editors

Please contact: <u>hs@egu.eu</u> or Bettina Schaefli



EGU awards and medals:

- Outstanding Early Career Scientists Award:
 - Division Outstanding Early Career Scientists Award at the Division level
 - Arne Richter Award for Outstanding Early Career Scientists at the Union level
- Division Medals to recognize outstanding achievements by active researchers
- Union Medals to recognize lifetime achievements, or exceptional contributions to science
- To identify the awardees as role models for a young generation of scientists to foster geosciences research
- For the awardees, to act as ambassadors for the European Geosciences Union at the global scale



HS Division awards and medals:

- Outstanding Early Career Scientists Award
- John Dalton Medal
- Henry Darcy Medal



Committees for the HS Division

Early Career Outstanding Scientist Award

- Maria-Helena Ramos (HS Div. Pres.)
- Thom Bogaard
- Anne Van Loon (outgoing)
- Serena Ceola (incoming)



HESS Exec.Editor



2017 ECS Awardee



2019 ECS Awardee



Committees for the HS Division

Early Career Outstanding Scientist Award

- 3 members: the Division president, and two members of the community
- 2-year term, every year one step down/one step in
- A review of our criteria at the Division level

 Ongoing Council discussions on a more unified way ECS are evaluated among divisions and the procedure at the Union-level



Early Career Outstanding 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 (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 the above criteria by 1 January of the year when the award is presented.

> Nominations for 2022 ECS Award by 15 June 2021



2020 HS Division Early Career Outstanding Scientist Award and Arne Richter Award at the Union Level



Andreas Hartmann

University of Freiburg

"... for outstanding contributions to understanding karst systems, their evolution, and particular hydrological processes, and pushing the community to large scales with new models and a smart use of tracers."

Lecture MAL14a: Tue, 20 Apr, 15:00–17:00 (CEST)

16:30–17:00 | EGU21-1353 * | Arne Richter Award for Outstanding ECS Lecture 2020 The karst and the furious – ways to keep calm when dealing with karst hydrology Andreas Hartmann



2021 HS Division Early Career Outstanding Scientist Award



Matteo Giuliani

Politecnico di Milano

"... for outstanding contributions to water resources research, including water management, water policy, multi-objective water reservoir operations, and coupled human-natural processes."

Lecture MAL14b: Thu, 22 Apr, 15:00–17:00 (CEST)

16:30–17:00 | EGU21-9208 ★ | ECS | HS Division Outstanding ECS Award Lecture 2021 Putting humans in the loop: coupling behavioral modeling with natural systems' models Matteo Giuliani



Committee for the John Dalton Medal

- Gabriel Katul (chair)
- Günter Blöschl
- Lena Tallaksen
- Amilcare Porporato
- Brian Berkowitz (incoming)
- Dani Or (outgoing)

Ex-officio [not voting]: HS Division President, Maria Helena Ramos, and Chair of the Union Awards Committee, Thomas Blunier

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

Medal awarded for individuals in recognition of their distinguished research in Hydrology as an Earth Science



2020 HS Division John Dalton Medallist



Amilcare Porporato

Princeton University

"... for seminal contributions to the field of ecohydrology and for developing new theories for the analysis of soil-plant-atmosphere systems across scales."

Lecture MAL14b: Thu, 22 Apr, 15:00–17:00 (CEST)

15:00–15:45 | EGU21-8542 ★ | John Dalton Medal Lecture 2020 Hydrology without Dimensions Amilcare Porporato



2021 HS Division John Dalton Medallist



Brian Berkowitz

Weizmann Institute of Science

"... for his seminal contributions to flow and anomalous transport in natural porous and fractured media with pioneering experimental methods and novel conceptual frameworks."

Lecture MAL14b: Thu, 22 Apr, 15:00–17:00 (CEST)

15:45–16:30 | EGU21-428 🖈 | John Dalton Medal Lecture 2021 A (not so) random walk through hydrological space and time Brian Berkowitz



Committee for the Henry Darcy Medal

- Elena Toth (chair)
- Petra Döll
- Xavier Sánchez-Vila
- Berit Arheimer (incoming)
- Andreas Hartmann (incoming)
- Dan Rosbjerg (outgoing)

Medal awarded for individuals in recognition of their outstanding scientific contributions in water resources research and water resources engineering and management

Ex-officio [not voting]: HS Division President, Maria Helena Ramos, and Chair of the Union Awards Committee, Thomas Blunier

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



2020 HS Division Henry Darcy Medallist



Xavier Sánchez-Vila

Princeton University

"... in recognition of his innovative theoretical work and practical solutions regarding aquifer characterisation, subsurface solute transport processes and managed aquifer recharge."

Lecture MAL14a: Tue, 20 Apr, 15:00–17:00 (CEST)

15:00–15:45 | EGU21-15490 🖈 | Henry Darcy Medal Lecture 2020 Porous media as a canvas for hydro-bio-geo-chemical processes: Facing the challenges Xavier Sanchez-Vila



2021 HS Division Henry Darcy Medallist



Berit Arheimer

SMHI

"... for her scientific leadership in policy-relevant large-scale modelling of water quality and quantity, promotion of open hydrology, and her excellence in managing research groups."

Lecture MAL14a: Tue, 20 Apr, 15:00–17:00 (CEST)

15:45–16:30 | EGU21-12778 🖈 | Henry Darcy Medal Lecture 2021 Landscape perspectives in hydrological understanding and modelling for water management Berit Arheimer



Division Medallists and Awardees 2022

Call for nominations is open until 15 June 2021

https://www.egu.eu/awards-medals/nominations/

	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 (max 1 page each)	3 to 5	-

Contact: Thomas Blunier (chair) <u>awards-medals@egu.eu</u>



More about medals and awards

• Visit the vPICO:

13:30-13:32 | EGU21-651 ★ ₽

Equality of opportunities in geosciences: The EGU Awards Committee experience Thomas Blunier

Session EOS5.1

Promoting and supporting equality, diversity and inclusion in the geosciences Co-sponsored by AGU and JpGU Convener: Claudia Jesus-Rydin | Co-conveners: Anouk Beniest^{ECS}, Chiaki Oguchi, Billy Williams

Mon, 26 Apr, 11:00-12:30 (CEST), 13:30-14:15 (CEST)



Outstanding Student Posters and PICOs: coordination & awardees

OSPP Coordinators:



Luisa Hopp



Andreas Hartmann

- Rewards the best posters and PICOs of young scientists (current and recently completed graduates)
 - In 2019: over 350 presentations (poster & PICOs) submitted for competition in HS Division
 - In 2020: no OSPP award
 - In 2021: new format adapted to #vEGU21



Outstanding Student Posters and PICOs: coordination & awardees

Procedure in 2021:

- All participants (BSc/MSc/PhD + first and presenting author) are eligible for the contest
- All vOSPP participants are clearly indicated as such in the final programme
- All registered EGU participants are invited to vote on vOSPP presentations → no judges need to be appointed
- The shortened evaluation form is directly integrated into the online presentation page

330 participants in the HS Division

The main rule is to have appr. 1 award per 30 eligible participants: please VOTE!



Outstanding Student Posters and PICOs: coordination & awardees

VOTE!

 LEGU21-6943 ★ | ECS | vOSPP 2

 nof the early detection and quantitative risk prediction method with the three-dimensiona

 ppler radio: analysis

 This abstract participates in the vOSPP contest. Click to judge

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



For EGU GA in 2022: we are looking for **one** new coordinator!

aco Aart Overeem,

Please contact one of the current coordinators or send an email to <u>hs@egu.eu</u> if you would like to volunteer for this activity of the HS Division.

Coordinators:

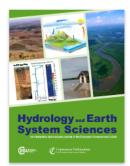


Level Lange L. La

Luisa Hopp Andreas Hartmann

Submit vote





OPEN ACCESS INTERACTIVE PUBLIC ARTICLE LEVEL

Executive editors: Theresa Blume, Alberto Guadagnini, Thom Bogaard & Erwin Zehe

Hydrology and Earth System Sciences (HESS) is a not-for-profit international two-stage open-access journal for the publication of original research in hydrology. HESS encourages and supports fundamental and applied research that advances the understanding of hydrological systems, their role in providing water for ecosystems and society, and the role of the water cycle in the functioning of the Earth system. A multi-disciplinary approach is encouraged that broadens the hydrological perspective and the advancement of hydrological science through integration with other cognate sciences and cross-fertilization across disciplinary boundaries.

Clarivate IF 5.153 Clarivate IF 5-year 5.460 Scopus' CiteScore 7.8 h5-index 65



This success is the result of hard work by Authors, Reviewers and Editors! Thank you!



These are the people that make HESS a success:

Our Editors:

Ackerer, Philippe; Ali, Genevieve; Archfield, Stacey; Berkowitz, Brian; Blume, Theresa; Blöschl, Günter; Bogaard, Thom; Buytaert, Wouter; Bárdossy, András; Carrera, Jesús; Coenders-Gerrits, Miriam; De Michele, Carlo; de Rooij, Gerrit H.; Di Baldassarre, Giuliano; Fenicia, Fabrizio; Ferre, Ty P. A.; Freer, Jim; Gentine, Pierre; Ghadouani, Anas; Giudici, Mauro; Greco, Roberto; Guadagnini, Alberto; Hendricks Franssen, Harrie-Jan; Hildebrandt, Anke; Hipsey, Matthew; Hrachowitz, Markus; Jewitt, Graham; Kelleher, Christa; Kjeldsen, Thomas; Kumar, Rohini; Llorens, Pilar; Mazvimavi, Dominic; McMillan, Hilary; Mikos, Matjaz; Moreno de las Heras, Mariano; Moussa, Roger; Neuweiler, Insa; Orlowski, Natalie; Peleg, Nadav; Pfister, Laurent; Riva, Monica; Romano, Nunzio; Rouholahnejad Freund, Elham; Saco, Patricia; Samaniego, Luis; Savenije, Hubert H.G.; Schaefli, Bettina; Schymanski, Stan; Seibert, Jan; Shukla, Shraddhanand; Slater, Louise; Solomatine, Dimitri; Stahl, Kerstin; Stamm, Christian; Stumpp, Christine; Su, Bob; ten Veldhuis, Marie-Claire; Teuling, Ryan; Tian, Fuqiang; Toth, Elena; Ursino, Nadia; van der Zaag, Pieter; van Griensven, Ann; van Schaik, Loes; Vanclooster, Marnik Viviroli, Daniel; Wanders, Niko; Wang, Lixin; Weerts, Albrecht; Weiler, Markus; Werner, Micha; Yu, Zhongbo; Yuan, Xing; Zehe, Erwin.

Guest Editors:

Ammann, Lorenz; Aronica, Giuseppe Tito; Batelaan, Okke; Beven, Keith; Brunner, Philip; Carr, Gemma DeBeer, Chris; Ducrocq, Véronique; Ertsen, Maurits; Forkel, Matthias; Geris, Josie; Glendell, Miriam; Gomes, Sharlene L.; Hanesiak, John; Hassler, Sibylle K.; Hohenbrink, Tobias L.; Jackisch, Conrad; Jarlan, Lionel; Krueger, Tobias; Laudon, Hjalmar; Li, Yanping; Lindquist, Eric; Mahe, Gil; Polo, María José; Potes, Miguel; Ranzi, Roberto; Renner, Maik; Sample, James E.; Sprenger, Matthias; Thaler, Thomas; Tramblay, Yves; van den Hurk, Bart; Wang, Wenke; Wei, Jing; Zscheischler, Jakob.

Thank you!



HESS Outstanding Editor Award 2020

Monica Riva

Jim Freer



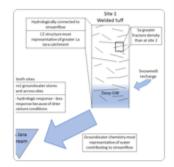


In recognition of their excellent service as Editors of Hydrology and Earth System Sciences



Jim Dooge Award 2019

Distinct stores and the routing of water in the deep critical zone of a snowdominated volcanic catchment



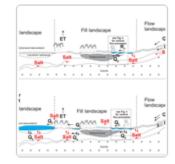
Alissa White¹, Bryan Moravec², Jennifer McIntosh¹, Yaniv Olshansky², Ben Paras¹, R. Andres Sanchez¹, Ty P. A. Ferré¹, Thomas Meixner¹, and Jon Chorover² ¹Department of Hydrology & Atmospheric Sciences, University of Arizona, Tucson, Arizona 85721, USA

²Department of Soil, Water & Environmental Sciences, University of Arizona, Tucson, Arizona 85721, USA



Jim Dooge Award 2020

Surface water as a cause of land degradation from dryland salinity



J. Nikolaus Callow^{1,2}, Matthew R. Hipsey¹, and Ryan I. J. Vogwill³

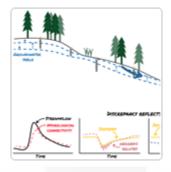
¹UWA School of Agriculture and Environment, The University of Western Australia, 35 Stirling Highway, Crawley, Perth, Western Australia, 6009, Australia

²Department of Geography, The University of Western Australia, 35 Stirling Highway, Crawley, Perth, Western Australia, ³Hydro Geo Enviro Pty Ltd, Carine, Western Australia, 6020, Australia



Jim Dooge Award 2020

Do stream water solute concentrations reflect when connectivity occurs in a small, pre-Alpine headwater catchment?



Leonie Kiewiet¹, Ilja van Meerveld¹, Manfred Stähli², and Jan Seibert^{1,3} ¹Department of Geography, University of Zurich, Zurich, Switzerland ²Swiss Federal Research Institute WSL, Birmensdorf, Switzerland ³Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences, Uppsala, Sweden



News from the Union



Helen M. Glaves

- Helen Glaves: EGU President elected (2021–2023) become president at GA 2021
- Elections in 2021: new HS President (starting after GA in 2023)



https://www.egu.eu/elections/

What does a division president do?

Publications

News and policy

EGU at a glance

Meetings

- Annual General Assembly
 More than 16,000 participants from
- 113 countries in 2019 More than 16,000 presentations in
- 683 sessions in 2019 Galileo Conferences
- Conference series
- Training schools

Outreach and Education

- Monthly EGU newsletter for members
- Imaggeo, EGU's image and video repository
 Blogs and social media
- Mentoring opportunities
 Public angagement and a second s
- Public engagement: grants, public lectures, schools outreach, and geoscience days
 GIFT (Geosciences Information For
- Teachers) workshops
- Planet Press, geoscience news for children
 Working Group on Equality, Diversity and
- Inclusion (EDI)

- 19 peer-reviewed open access journals and a number of other publications
 Over 26,000 authors from over 100
- countries in 2017
 Over 3,000 papers (more than 50,000 pages)
- over 3,000 papers (more than 50,000 pages published in 2017
- Free access to all articles
 Interactive public peer-review & discussion
- Signatory of the Berlin Declaration on Open Access 2003 and Open Access 2020

Ea

- Press releases
 Press conferences at the EGU General
 Assamble
- Assembly
 Science Journalism Fellowship for
 professional journalists
- Policy news, events and resources for scientists

EGU database of expertise

 Communication of policy-relevant research to policymakers

- Awards • Four prestigious Union medals, recognising
- excellence in scientific research Four Union awards for early career scientists, services for the Union, science
- scientists, services for the Union, science journalism, and outreach.
 27 division medals, awarded for significant
- disciplinary contributions in the Earth, planetary and space sciences
- 22 division awards for early career scientists and General Assembly awards for students

Early career scientists

- Early career scientist representatives in the EGU Council and at division level
 Sessions, activities and financial support for
- early career scientists at the General Assembly
- Events, job opportunities, and resources



Any other business

Questions? Suggestions? Contact me at: <u>hs@egu.eu</u>

EGU General Assembly 2022 Vienna, Austria 3–8 April 2022

