



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: ESSI Events

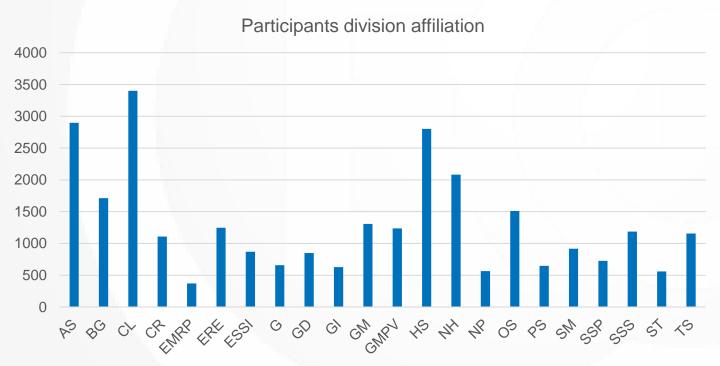
- MAL8 | Ian McHarg and ESSI ECR Award | 20 Apr 2021 | 10:15 12:15
- DM7 | ESSI Division Meeting | 20 Apr 2021 | 13:30 14:30
- GDB3 | Improving Research Software in the Geosciences | 22 Apr 2021 | 15:00–16:30
- NET12 | ESSI ECR Event | 27 Apr 2021 | 12:00 13:00
- NET30 | ESSI Networking Event | 29 Apr 2021 | 12:30 13:30

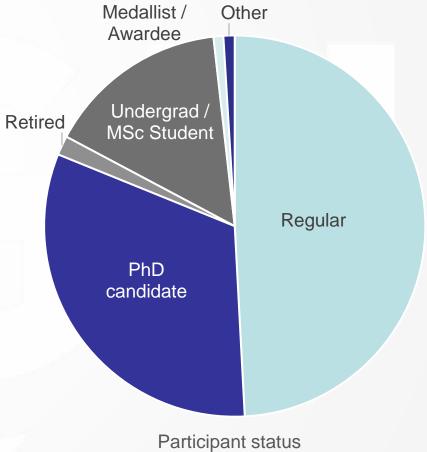
- 11 Sessions led by ESSI, 20 Sessions co-organised
- Check out other Great Debates and networking events!



vEGU21: Registration numbers and breakdown

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

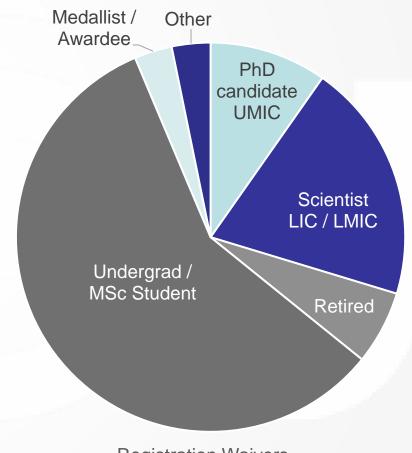






vEGU21: Registration fee waiver programme

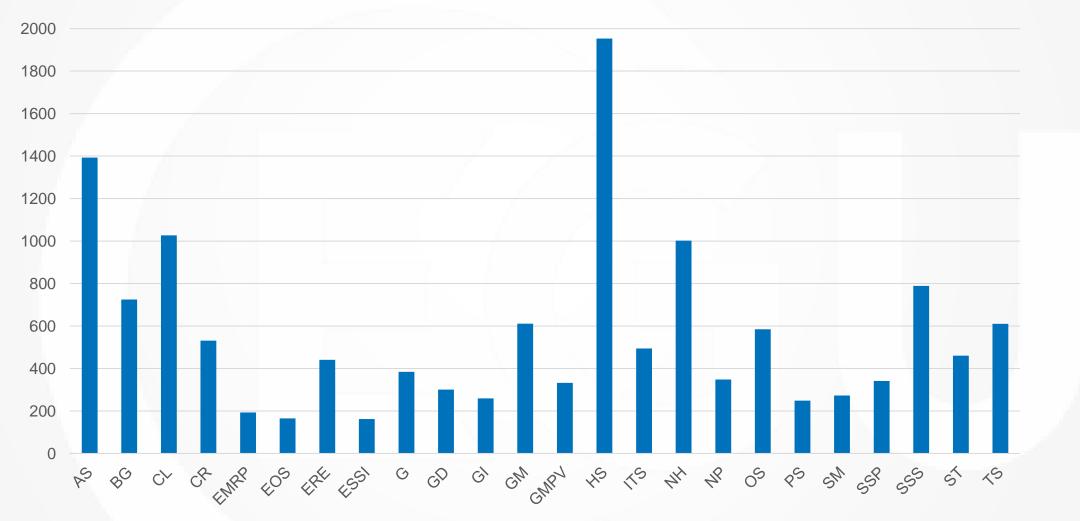
- 3,675 registration waivers granted:
 - All scientists from Low / Lower-Middle Income Countries*
 - PhD candidates from Upper-Middle Income Countries*
 - Undergraduate and Master Students
 - Retired members of EGU
 - Medallists
 - Others (Teachers, Journalists, ...)



Registration Waivers

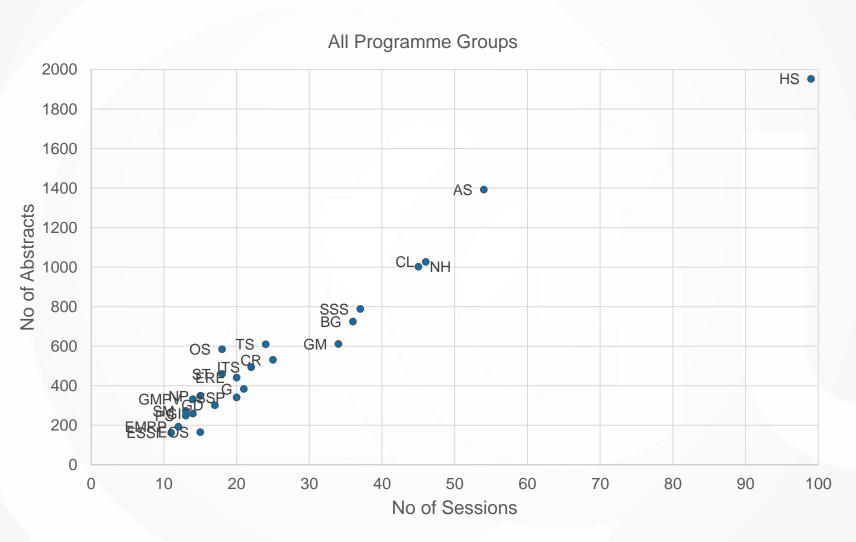


vEGU21: Abstracts per Programme Group





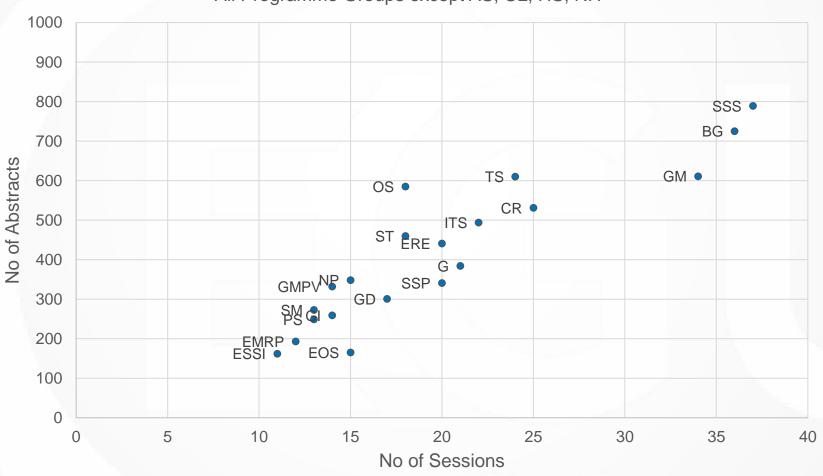
vEGU21: Abstracts / Sessions per Programme Group





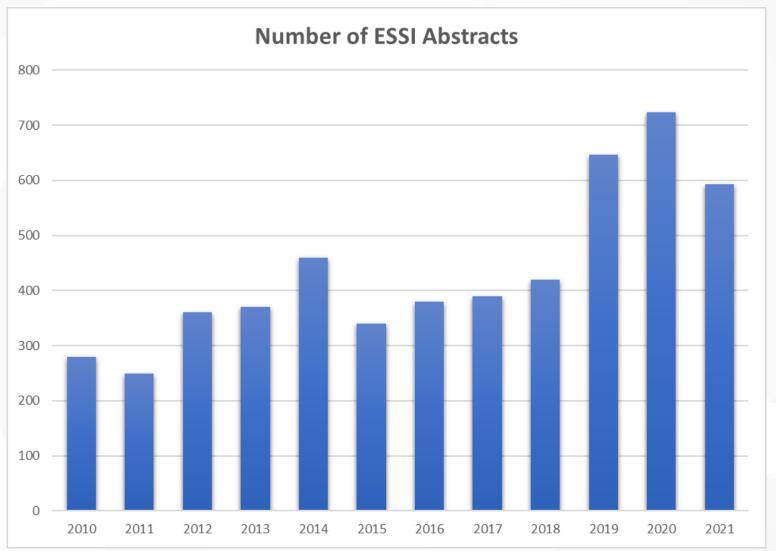
vEGU21: Abstracts / Sessions per Programme Group







vEGU21: ESSI Abstracts





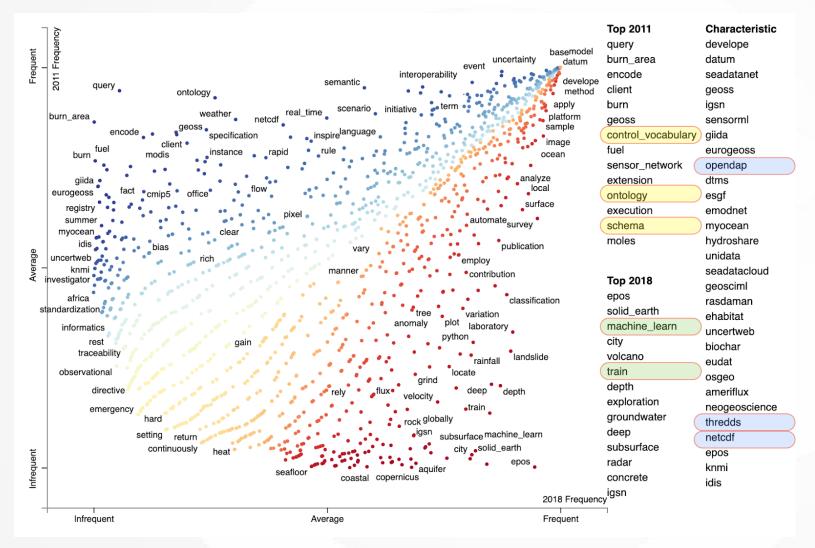
vEGU21: ESSI Programme in Numbers

- Great Debate: 1
- ITS: 4
- ESSI1 (Disciplinary): 4 | co-organised: 11
- ESSI2 (Infrastructures): 3 | co-organised: 4
- ESSI3 (Open Science): 3
- ESSI4 (Visualisation): 1

- Proposed: 21
- Rejected: 1
- Accepted: 11



vEGU21: ESSI Topics



Latent Topic Analysis of ESSI Abstracts 2011 vs 2018.

Khalsa, S.J.S., Lopez, L., and Pope, A., 2019.
Applications of Latent Semantic Analysis to Track Trends in Geoscience Research. Geophysical Research Abstracts, **21**, EGU2019-16742-1

- ESSI 1: Community-driven challenges and solutions dealing with Informatics
 - Kerstin Lehnert
 - Dirk Fleischer
- ESSI 2: Infrastructures across the Earth and Space Sciences
 - Horst Schwichtenberg
 - Wim Som de Cerff
 - Paolo Mazzetti
- ESSI 3: Open Science 2.0 Informatics for Earth and Space Sciences
 - Kirsten Elger
 - Pierre Philippe Mathieu
- ESSI 4: Visualization for scientific discovery and communication
 - Jon Blower
 - Mohan Ramamurthy
- ESSI 5: General contributions



ESSI Division Structure: Leadership



Jens Klump
Division President
2020 – 2023



Jane Hart
Deputy Division President
2020 – 2023



ESSI Division President: next election

- Next EGU election (Divisions): November 2021
- Successful candidate: deputy president from EGU GA 2022 (1 year)
- Assumes role of Division President at EGU GA 2023 (2 years)
- All EGU members are eligible
- Division President can only stand once for re-election (usually 4 years in total)
- Call for candidates opens June 2021



ESSI Division Structure: Science Officers

Meteorology and Climatology

Reinhard Budich

Space

Vacant

(Pier Giorgio Marchetti)

Geochemistry

Kerstin Lehnert

Oceanography

Antonio Novellino

Liaison AGU ESSI Section

Jane Hart (Peter Fox)

- Science Officers should promote sub-programmes and encourage their colleagues to organize sessions for the GA
- Any new volunteers?



ESSI Early Career Scientist (ECS)Representative

- Early Career Scientist: EGU member receiving highest degree (BSc MSc or PhD) in last 7 years
- Early Career Scientist representatives are a crucial link between the EGU and the young scientist community
- Each division can have an Early Career Scientist representative

Ph.D. in Innovation and Sustainable Development Engineering

Currently Postdoctoral Research Fellow in Environmental Data Mining at the University of Lausanne



Short bio

My research interest is the study of the interaction between spatial and temporal components of environmental and geographical phenomena, and their consequences in terms of spatial planning and urban geography. My recent work has focused on the analysis of land use dynamics and its relationship with climate, pollution, natural hazards and other social/economic phenomena. I collaborate with the Italian association "<u>Liberascienza</u>" to support their science communication activities.

Motivation

The ESSI division is growing, and so is the number of ECS in it. I expect to contribute to construct a clear portrait of ECS needs and expectation, helping to develop activities that can support the promotion of their research, a wider comprehension of the Division and General Assembly structure, and the creation of a real community that keeps in touch throughout the entire year and not only during the general assembly.



Early-Career Scientist Events at vEGU21

- 56 Short courses
 - 34 Short courses ECS as head-convener
- 21 Networking event led by and aimed at ECS
- 3 Great Debates led by ECS
- Jobs and Career Center initiatives
 - Meet the exhibitors
 - Meet the Talents
 - Blog on CV writing
 - Online CV-sticker
- Outreach
 - Introducing ECS Reps via EGU Blog
 - Blogs and Social Media blurbs about ECS-events



Come and meet experts working at the interface of science & policy at a #vEGU21 networking session!

Science for Policy Meet and Greet: 26 April, 16:00

Science-policy pairing scheme: a panel discussion: 27 April, 16:00

Practice pitching your policy ask to a policymaker:

28 April, 17:00





How can scientists effectively engage with policy? Find out during these #vEGU21 Short Courses!

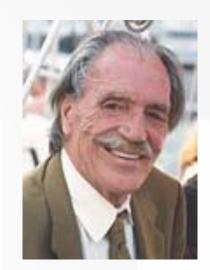
- Your Handbook to Science for Policy: 27 April, 10:00
- How to influence policy through engaging with Parliaments: 28 April, 16:00





ESSI Awards: Ian McHarg Medal

- ESSI Division Medal
- Awarded for distinguished research in Information Technology applied to the Earth and space sciences.
- In recognition of the scientific achievements of Ian McHarg
 - a pioneer of the concept of ecological planning
 - provided the basic concepts of Geographic Information Systems (GIS)





Earth & Space Science Informatics EGU

ESSI Awards: Our medallists



2020 Paul Wessel



2019



Stefano Nativi

2018



Kerstin Lehnert

2016



Helen Glaves

2013



Alessandro Annoni

2012



Peter Fox

2011



Monique Petitdidier



Peter Arthur Fox (1959 – 2021)

- » It is with the deepest sadness that EGU reports the death on 27 March 2021 of Dr. Peter Fox.
- » Peter Fox was a pillar of the global informatics community and pivotal in establishing the ESSI divisions within both EGU and AGU.
- » In 2012, his peers recognised this contribution when they awarded him the EGU's Ian McHarg Medal for his role in establishing informatics as a genuine discipline within the Earth Sciences.





Ian McHarg Medal committee

- Lesley Wyborn (chair)
- Paolo Diviacco
- Paolo Mazzetti
- Kerstin Lehnert
- Stefano Nativi
- Paul Wessell









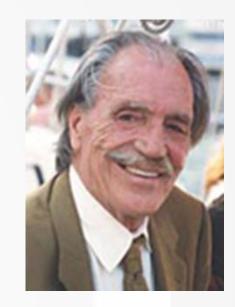






Proposed change: McHarg – * Medal

- Format change biennial starting 2021
- Expand scope
 - include technological advances e.g. software development
 - new approaches e.g. promoting open science
- Renamed to support diversity in EGU/ESSI and highlight new format









Outstanding Student and PhD candidate Presentation (OSPP) Awards

- This year, all participants are eligible for the contest, as long as they are the first and presenting author of the vPICO, and are either currently a BSc or MSc student or a PhD candidate, or obtained their degree after 1 January 2020.
- All vOSPP participants are clearly indicated as such in the final programme. It is therefore not necessary this year to integrate the OSPP label into the presentations.
- All registered EGU participants are invited to vote on vOSPP presentations, as long as they are neither BSc or MSc students or PhD candidates themselves, are not participating in vOSPP, are not a co-author of the presentation, and do not share the same affiliation as the first author.
- The shortened evaluation form is directly integrated into the online presentation page for easy access and only refers to the uploaded content for judging.
- It is this year therefore not necessary for session conveners to appoint judges, since all participants are allowed to judge. Conveners are, however, explicitly asked to vote on vOSPP presentations within their session and to invite session participants to do the same.

https://www.egu.eu/awards-medals/ospp-award/





The 2021 Division Outstanding Early Career Scientist Award is awarded to Alice Fremand for her major contributions towards establishing the data centre for geothermal data in Alsace (Centre de Données de Géothermie Profonde, CDGP) as a state-of-the-art research data repository.



Equality, Diversity and Inclusion (EDI) Events at vEGU21

- SC2.8 Promoting Diversity in Geosciences | 19 Apr 10:00 11:00 CEST
- SC2.9 Practical Recommendations on how to combat discriminatory work environments in the Geosciences | 19 Apr 14:30 – 15:30 CEST
- EOS5.1 Promoting and supporting equality, diversity and inclusion in the geosciences | 26 Apr 11:00 – 14:15 CEST
- GDB5 Bullying in Academia: towards creating a healthy and safe working environment (ECS Great Debate) | 22 Apr 09:00 – 10:30 CEST
- GDB1 Challenging discrimination in the geosciences: Amplifying unheard voices | 26
 Apr 15:00 16:30 CEST
- NET0 Picture a Scientist Film Screening | 24 26 Apr
- EDI Networking Event | 26 Apr 17:00 17:30 CEST
- EGU Pride 19 Apr 17:30 19:00 CEST
- EGU EDI Colouring Book





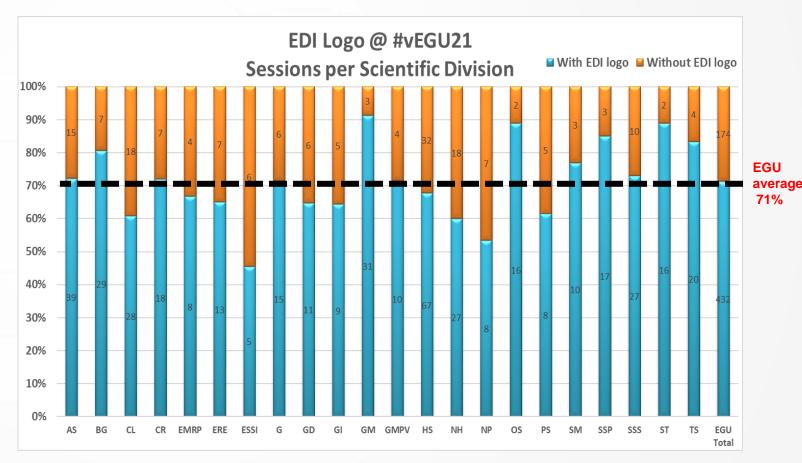






Session conveners fulfill all three criteria:

- 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

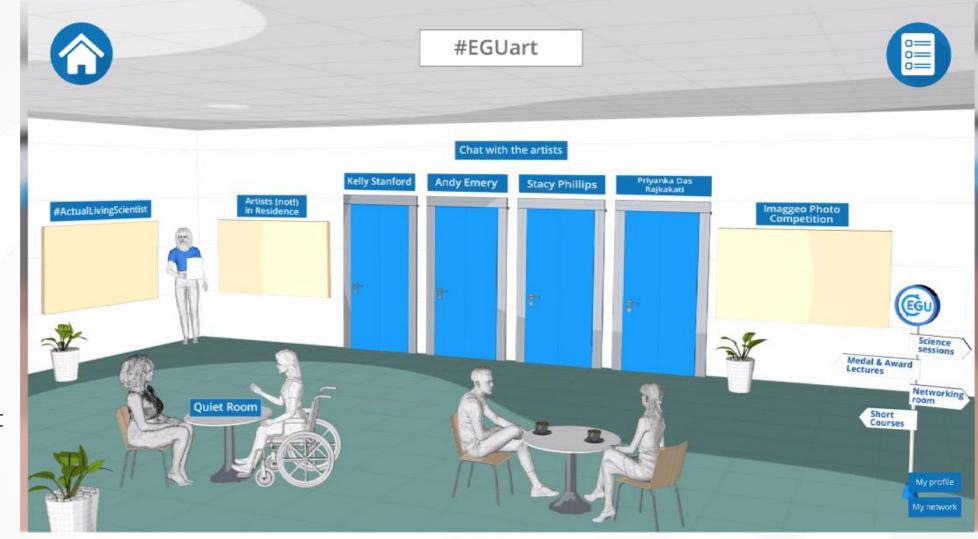


Send suggestions to: edilogo@egu.eu



#EGUart

- 4 artists (not!) in residence
- #EGUart room in platform
- #ActualLivingScientist (EDI initiative)
- Colouring book (EDI initiative)
- Imaggeo photo competition
- Kids Art





#vEGU21 Networking

- Scheduled networking events (Division, ECS, etc.), including on Gather.town
- Pop-up networking events
- EGU committee meet & greets
- Viennese settings (café, art exhibits, cooking)
- Quiet room (Spotify playlist)
- vEGU21 platform built-in networking capabilities (networker, handshake)





#vEGU21 outreach activities

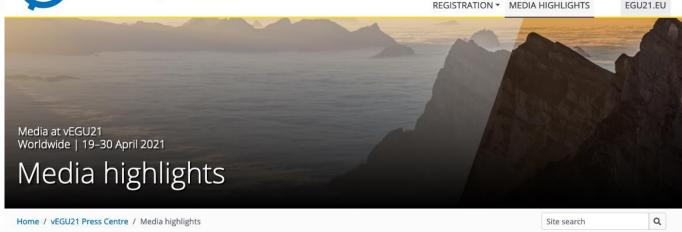
- EGU Public Lecture: Günter Blöschl, Vienna University of Technology and previous EGU President, 21 Apr 18:00 CEST; link on EGU and vEGU21 websites. The lecture is hosted and organised by the Austrian Academy of Sciences.
- **EGU Mentoring**: 130 mentees successfully paired with 83 mentors.
- Croome & Krafft award presentations 20 Apr 18:00 CEST
- Teaching/scientist pairing scheme pilot project





#vEGU21 Media activities

- **6 press conferences**
- New: media highlights page
- New: 5 press releases
- New: 5 media tip sheets
- Every PG represented in these materials!



The evolution of feathers

Birds are covered in feathers, but they are not the only animal to sport a colorful coat. Dinosaurs once did too, according to recent scientific findings. Researchers have uncovered fossils that show feathers existed 100 million years ago and were likely on all dinosaur groups.

Michael Benton, paleontologist at the University of Bristol, UK, presents research on Tuesday, 20 April at 15:05 CEST covering the evolution of feathers, including how paleontologists are detecting colours and patterns of dinosaur feathers. He will also discuss new frontiers of research in paleobiology.



Dinosaurs that are 100 million years old show evidence of feathers. Scientists have discovered that Sinosauropteryx had ginger and white rings of feathers down its tail. Image credit: Sam / Olai Ose / Skjaervoy, CC 2.0, Flickr.

Lessons learned when an earthquake struck during the pandemic



The deadliest earthquake of 2020 occurred amid the global COVID-19 pandemic. When a magnitude-6.9 quake struck the eastern Aegean Sea in October, 119 people died in Turkey and Greece, predominantly from buildings collapsing. It was the scene emergency responders and natural hazards scientists had feared: a major quake occurring during the pandemic.

Normal actions immediately following an earthquake — like search and rescue, first-aid treatment, and setting up emergency shelters — were riskier and more challenging because of COVID. For example, responders needed proper personal protective equipment, especially facemasks, and the affected



ESSI on social media





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ESSI division deals with community-driven and multidisciplinary informatics challenges and solutions.

136 Following **237** Followers

Tweets & replies Media Likes



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Don't forget to tweet your data related questions to the #DataHelepDesk next week as part of the @EGU Sharing Geoscience Online #shareEGU20





ESSI web pages and blog

EGU Searth & Space Science Informatics

🛔 H. Glaves (143820) | 🎢 Home | General Assembly 2018 | Divisions 🔻

Geolog Network Divisions Q BLOGS OF THE EUROPEAN GEOSCIENCES UNION

ESSI Earth and Space Science Informatics

EGU Blogs » Divisions » Earth and Space Science Informatics » Good practice in the evaluation of researchers

Good practice in the evaluation of researchers

Christoph Stasch, ESSI ECS representative - January 8, 2018 - Uncategorized - No Comments

A new statement on good practice in the evaluation of researchers and research programmes has been posted by three national academies (Académie des Sciences, Leopoldina and Royal Society).

It states that "the use of bibliometric indicators for early career scientists must in particular be avoided. Such use will tend to push scientists who are building their career into wellestablished/fashionable research fields, rather than encouraging them to tackle new scientific challenges." (p. 4). Read the full statement at:

https://royalsociety.org/-/media/policy/Publications/2017/08-12-2017-royal-society-leopoldina-and-academie-dessciences-call-for-more-support-for-research-evaluators.pdf

ABOUT

Welcome to the blog of the Earth & Space Science Informatics (ESSI) Division of the European Geosciences Union (EGU). This blog serves as a platform for the ESSI community to share news, events, and activities, as well as updates on the latest research being undertaken in our field. We also hope this blog will serve as a discussion forum. The blog is run by Jennifer Roelens, Anatolii Chernov and Julia Wagemann. Everybody is invited to contribute to the blog and submit posts to the editor Jennifer Roelens.

SUBSCRIBE TO BLOG

- ESSI mailing list
- ESSI-ECS mailing list

ESSI EARTH AND SPACE SCIENCE INFORMATICS

Division on Earth and Space Science

Home / ESSI

President: Helen M. Glaves (essi@egu.eu)

Deputy President: Jens Klump (jens.klump@csiro.au)

As far as informatics and information technology are concerned, the ESSI division deals with Community multidisciplinary challenges and solutions. This include topics like: data model and metadata standardizated data infrastructure interoperability, semantics services, quality and uncertainty information encoding an propagation, geospatial data processing, environmental model accessability, big data management, and visualization for scientific discovery.

