



# vEGU 2021, Gather online

## Solar-Terrestrial Sciences (ST)

### Division Meeting

Olga E. Malandraki

23 April 2021, 13:30–14:30, online



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Meetings | Publications | Outreach | [www.egu.eu](http://www.egu.eu)

# AGENDA

1. Approval of the 2020 minutes
2. Awards and Medals 2021
3. Medal Committees
4. vOSPP 2021
5. ST Division Organisation and Officers
6. ST Early Career Scientist Activities (Theresa Rexer)
7. ST Education and Public Outreach Update
8. ANGEO Update
9. 2021 GA/ST Scientific Programme
10. EGU 2022 and the Future
11. Any Other Business

# 1. Acceptance of the minutes of the ST Division Meeting 2020

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

and this year's Meeting Agenda

## 2. Awards and Medals 2021

# 2021 Jean Dominique Cassini Medal & Honorary Membership

***Janet Luhmann***

The 2021 Jean Dominique Cassini Medal & Honorary Membership is awarded to **Janet Luhmann** for being an **exceptional geoscientist, original thinker, and true pioneer in the science of planetary space weather, revealing the links between solar processes and their planetary responses.**

***“The Science of Space Weather: From Bit Flips to Exoplanets”***

Thursday, 22 April 2021, 13:30-14:39, vEGU2021, online





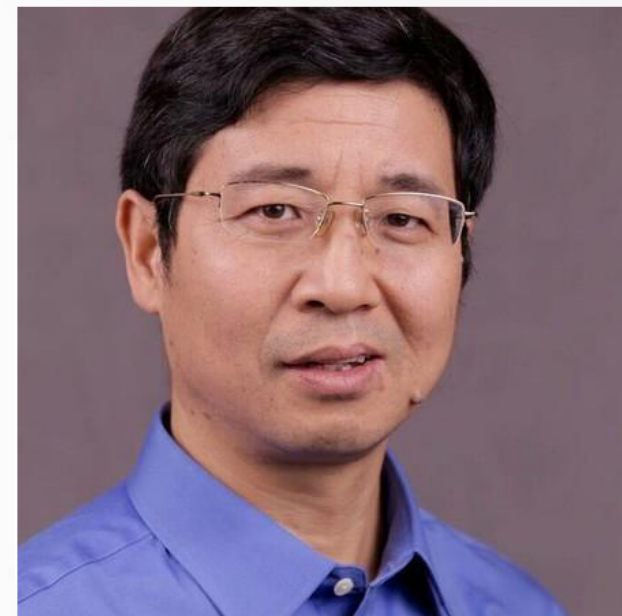
# 2020 Hannes Alfvén Medal

***Quigang Zong***

The 2020 Hannes Alfvén Medal is awarded to Quigang Zong **for his outstanding contributions to the identification of the particle acceleration mechanisms in the magnetosphere and to the development of space plasma physics instrumentation.**

***“Magnetospheric Response to Solar Wind Forcing: ULF waves - Particle Interaction Perspective”***

Friday, 23 April 2021, 15:30-16:15, vEGU2021, online



# 2021 Julius Bartels Medal

***Volker Bothmer***

The 2021 Julius Bartels Medal is awarded to Volker Bothmer **for his outstanding work on understanding the complex nature of coronal mass ejections.**

***“The magnetic flux rope structure of coronal mass ejections –  
2021 Julius Bartels Medal Lecture at vEGU”***



Friday, 23 April 2021, 16:15-17:00, vEGU2021, online

# 2021 Arne Richter Awards for Outstanding Early Career Scientists (ST)

***Mateja Dumbović***

The 2021 ST Arne Richter Awards for Outstanding Early Career Scientists (ST) is given to Mateja Dumbović **for her innovative contributions to solar and space-weather physics, in particular, regarding the modelling and observational studies of Forbush decreases, CME propagation, and geo-effectivity.**

***“Utilizing galactic cosmic rays as signatures of coronal mass ejections”***



Thursday, 22 April 2021, 14:30 – 15:00, vEGU2021, online



# 2020 ST Early Career Scientist (ECS) Award

***Lauri Holappa***

The 2020 ST Early Career Scientist Award is awarded to Lauri Holappa **for outstanding research in the field of space climate and space weather.**

***“Explicit IMF By-dependence in geomagnetic activity”***

Friday, 23 April 2021, 15:00-15:30, vEGU2021, online



# Invitation for Nominations for Awards and Medals

The community is urged to send in suggestions of strong candidates!

**Next Deadline for nominations: June 15**

## **Division level:**

- The Division Outstanding Early Career Scientists Awards
- The best nomination can be recommended for the Arne Richter Outstanding ECS Award
- The Division medals for mid-career scientists (mid career: before retirement) Hannes Alfvén/Julius Bartels Medals
- Based on the size of the ST Programme Group compared to others, the decision was taken on EGU Council level to keep the two division medals for ST, but with one medal every year in an alternating fashion. This strategy already applied to other similar divisions e.g. PS, and EMRP divisions.
- **'Hannes Alfvén Medal' for 2022**

## **Union level:**

- Arne Richter Outstanding Early Career Scientists Awards
- Union Medals for senior scientists
  - ST Division (Planetary and space sciences): Jean Dominique Cassini Medal

*Further details: <https://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/>*

## 3. Medal Committees

# Hannes Alfvén Medal Committee 2022

## **Hannes Alfvén (current committee):**

Iannis Dandouras [Chair]

Stephen Fuselier

Julia Thalmann

Daniel Baker

## **Proposed 2022 committee:**

Iannis Dandouras [CHAIR]

Daniel Baker

Julia Thalmann

Stephen Fuselier [OUT]

Janet Luhmann [IN]

## 4. Outstanding Student Poster and PICO (OSPP) Award

Number of Participants in **2019**: 39

**2020**: has been canceled



# ST 2019 Outstanding OSPP Award

***Alexander Lukin***

***“Night-side magnetopause: simultaneous observations  
of ARTEMIS and MMS”***

Lukin, A. S., Artemyev, A. V., Panov, E. V., Petrukovich, A. A., Yushkov, E. V.

*Poster presented at EGU 2019, Vienna*

## 4. OSPP Award

This year, all participants are eligible for the **Outstanding Student Poster and PICO Awards** that:

- are the first and presenting author of the vPICO abstract;
- satisfy one of the following criteria:
  - are either currently a BSc or MSc student or PhD candidate;
  - obtained their degree after 1 January 2020

[\[PC Overview\]](#)

### vOSPP coordinator tool

The vOSPP coordinator tool is available from 23 April 2021. Thank you very much for your understanding.

## 4. OSPP Participation

### Registered Posters

2016: 45

2017: 28

2018: 49

2019: 39

2020: canceled

2021: vOSPP

Thanks to the conveners and judges for making this possible!

## 5. ST Division Organisation and Officers

# Solar-Terrestrial (ST) Division President

Olga Malandraki

For the period **2019-2023**

ST Division President at EGU2019 GA

ST Division Deputy President

Margit Haberreiter (former ST Division President)



## ST Structure and EGU principles

- Division Officers are appointed by the Division President and approved in the Division Meetings
- Programme Group Chair (Division president)  
Olga Malandraki until 2022

# ST Scientific Officers

- **ST1 The Sun and Heliosphere**

‘Solar Physics’: Manuela Temmer: confirmed for 2022

‘Heliosphere’: Olga Malandraki: confirmed for 2022



- **ST2 Magnetosphere:**

Yulia Bogdanova: confirmed for 2022



- **ST3 Ionosphere and Thermosphere:**

Dalia Buresova: confirmed for 2022



**Thank you all for your active involvement in shaping the EGU Programme!**

# ST Liaison Officers

- **Publications:**  
Manuela Temmer: confirmed for 2022
- **OSPP Coordinator:**  
Chao Xiong: confirmed for 2022
- **Early Career Scientist (ERC) Representative**  
Theresa Rexer [OUT]  
Maxime Gardin [IN]: confirmed for 2022



## ST Liaison Officers *cont.*

- **News, Media, Education and Public Outreach, Webmaster**  
Luke Barnard: confirmed for 2022
- **Scientific Affairs, Foreign Affairs, Division Liaison**  
Olga Malandraki: confirmed for 2022



## 6. Early Career Scientist (ECS) ST Activities

**Theresa Rexer (outgoing)**  
**Maxime Grandin (incoming)**

ECS ST Representative

<http://www.egu.eu/ecs/>



# ECS Team

## Incoming Early Career Scientist



**Maxime Grandin** : [ecs-st@egu.eu](mailto:ecs-st@egu.eu)

Maxime is currently a postdoc at the University of Helsinki in Finland working on particle precipitation from the magnetosphere into the ionosphere using numerical modelling and observations, and on the dune aurora which was recently discovered thanks to citizen science. As the ECS Representative for the ST Division he is working on increasing the awareness of the activities for ECS in the division

## ECS Team



**Christine Smith-Johnsen**

Postdoc at the Birkeland Center for Space Science, Norway



**Theresa Rexer**  
*Outgoing ECS Representative*

PhD at the Arctic University of Norway, Tromsø



**Jone Peter Reistad**

Postdoc at the Birkeland Center for Space Science, Norway



**Liliana Macotela Cruz**

Leibniz-Institute of Atmospheric Physics e.V. at the Rostock University, Germany

## New to the team



**Florine Enegnl**

PhD at the University of Oslo, Norway



**Thomas Chen**

# Mission and Activities

The aim for the ECS Team is to increase the relevance and awareness of the activities for Early Career Scientist in the Division and create opportunities for networking.

- Organise a popular short course, Meet the Experts – The future of solar terrestrial research, to bring together established researchers and ECS to talk and discuss the future and challenges of our field.
- Organised a lunch meeting for ECS in Vienna (pre-Covid), as the GA is an important meeting place for ECS.



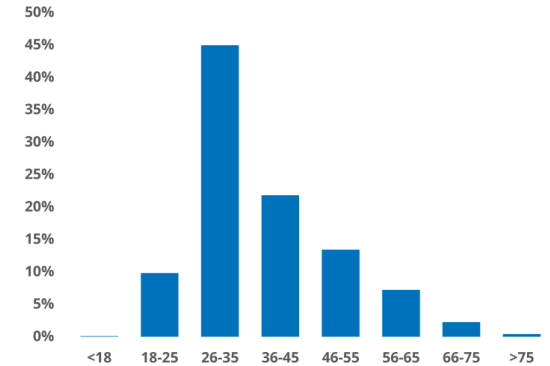
## Social media presence:

Twitter: @egu\_st

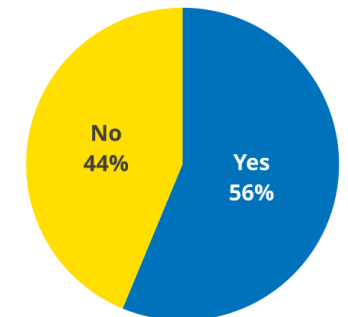
Facebook: EGU Solar-Terrestrial Division

Blog: [blogs.egu.eu/division-st/](https://blogs.egu.eu/division-st/)

## What is your age?



## Are you an early career scientist (ECS)?







SC2.12: MEET THE EXPERTS:

# THE FUTURE OF SOLAR-TERRESTRIAL SCIENCES

ARE YOU INTERESTED IN HOW THE SUN AFFECTS THE NEAR EARTH SPACE?  
WHAT CHALLENGES LIE AHEAD FOR YOU AS AN EARLY CAREER SCIENTIST TO  
EMBARK UPON, AND HOW DO YOU SUCCEED IN ACADEMIA?

LISTEN TO THE EXPERTS AND DISCUSS THE FUTURE OF OUR COMMUNITY AT vEGU.  
SEARCH FOR OUR SHORT COURSE IN THE PROGRAM TO FIND THE ZOOM LINK

**FRIDAY APRIL 23<sup>RD</sup> 10:00CEST (08:00UTC) ON ZOOM**

**KALEVI MURSULA**



EXPERT ON SOLAR  
PHYSICS AND SPACE  
CLIMATE  
(Univ. Oulu, Finland)

**MINNA PALMROTH**



EXPERT ON THE  
MAGNETOSPHERE AND  
NUMERICAL MODELLING  
(Univ. Helsinki, Finland)

**CHRISTINE GABRIELSE**



EXPERT ON THE  
IONOSPHERE AND  
SUBSTORMS  
(Aerospace/UCLA)

**CRAIG RODGER**

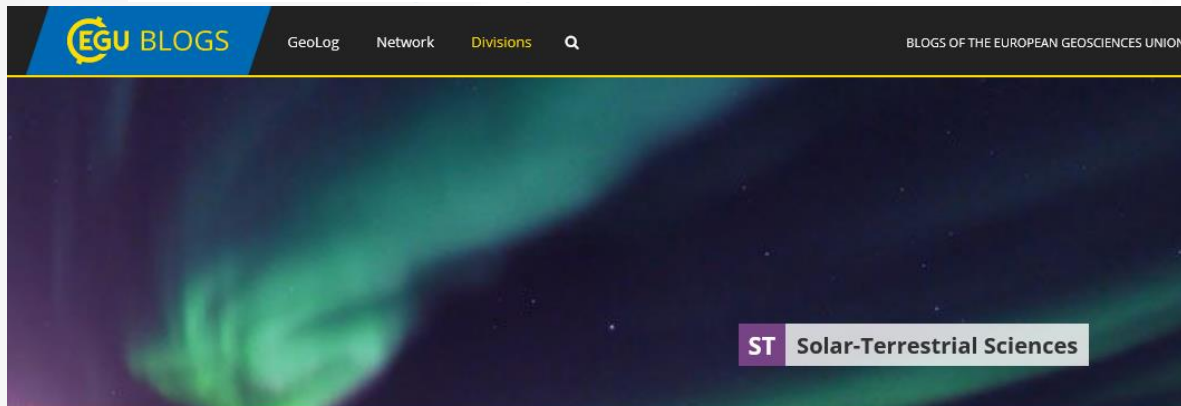


EXPERT ON THE  
RADIATION BELTS AND  
PARTICLE PRECIPITATION  
(Univ. Otago,  
New Zealand)

Image credit: Kari Saari, Dune aurora



<https://blogs.egu.eu/divisions/st/>



EGU Blogs » Divisions » Solar-Terrestrial Sciences

## Solar-Terrestrial Sciences

### First year of Energetic Particle Measurements with EPD aboard Solar Orbiter

Javier Pacheco-Rodríguez · April 22, 2021



### Meet the Experts: The future of solar terrestrial research

Eleanna Asvestari · April 21, 2021

Every year at the EGU General Assembly renowned experts from the field of Solar-Terrestrial research get together to give inspirational talks and to meet with early career scientists. This year's "Meet the Experts" session is focusing on the future of solar terrestrial research. To think of the future, we first have a look at the past, and more precisely on the knowledge acquired with over half a ...

[\[Read More\]](#)

### ABOUT

Welcome to the [blog](#) of the [Solar-Terrestrial Sciences \(ST\) Division](#) of the [European Geosciences Union \(EGU\)](#). This blog serves as a platform for the solar-terrestrial community to share news, events, and activities, as well as updates on the latest research. It is especially aimed at the EGU early career scientists and the general public. The blog is run by Luke Barnard who welcomes guest contributions. To submit a post, simply drop him an [email](#).



SUBSCRIBE TO BLOG

[https://twitter.com/egu\\_st](https://twitter.com/egu_st)



## The Team



**Luke Barnard**



**Jamey R. Szalay**



**Eleanna Asvestari**



**Pietro Zucca**

## Current Status

We mainly aim to publish content about:

- Latest science results, including new missions
- Community matters
- Professional development (e.g. effective public engagement tips)

Currently the blog attracts around 120 visits per month.

The 2020 post frequency was less than planned (monthly) due to COVID related pressures.



## Latest science results and missions: Solar Orbiter



We plan to highlight the new science from the Solar Orbiter mission over 2021-2022

First year of Energetic Particle Measurements with EPD aboard Solar Orbiter

Javier Pacheco-Rodriguez · April 22, 2021 · Uncategorized · No Comments

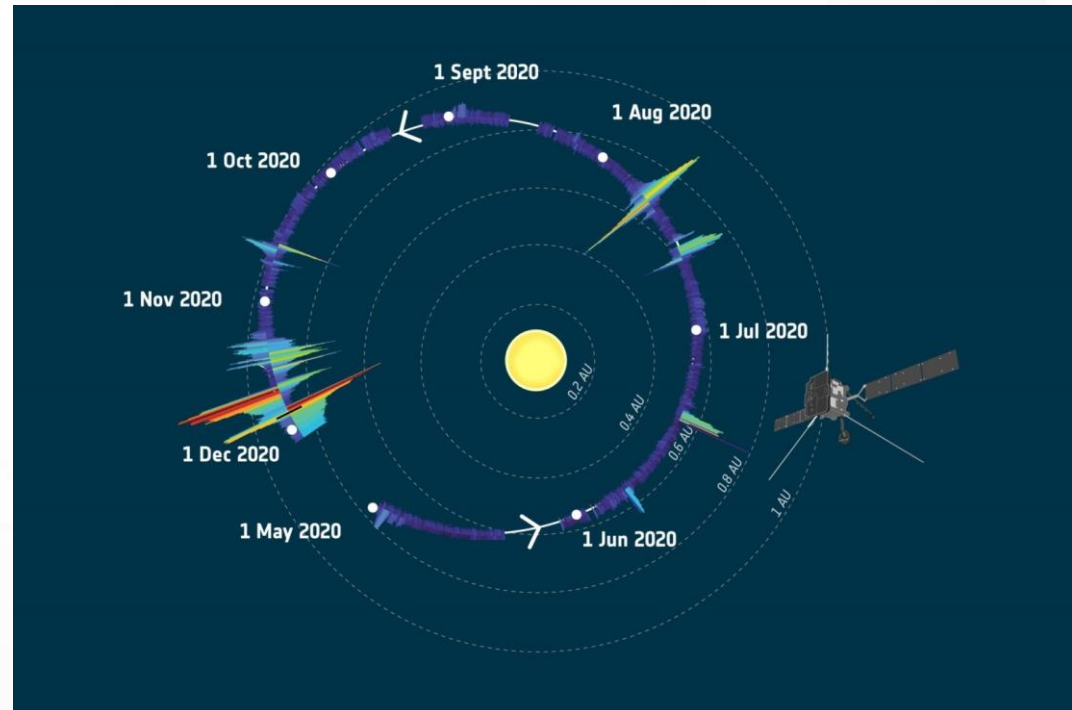
by **Prof. Javier Rodriguez-Pacheco**

Our first post on these results was recently published, aimed to help highlight the vEGU21 session ST1.3 which is themed on Solar Orbiter.



Artists impression of Solar Orbiter. Copyright: ESA/ATG medialab

One year ago, the Energetic Particle Detector (EPD) aboard the European Space Agency's (ESA's) Sun observing spacecraft Solar Orbiter (SolO) was launched starting a long-awaited journey. SolO (Figure 1) will provide both in-situ and remote sensing measurements in the inner Heliosphere and EPD will contribute particularly to the latter ones.



## Latest science results and missions: Parker Solar Probe

EGU Blogs » Divisions » Solar-Terrestrial Sciences » So... Who Cares about Switchbacks?

### So... Who Cares about Switchbacks?

Nathan Schwadron · April 19, 2021 · Uncategorized · No Comments

by **Prof. Nathan Schwadron**

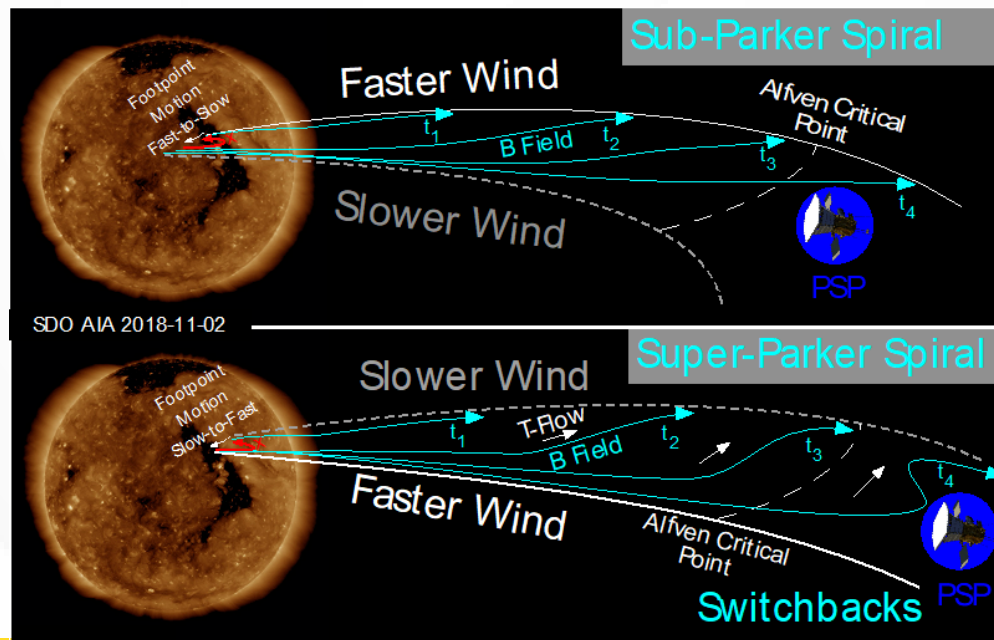
*Explaining the Mysterious Plethora of Short Magnetic Field Reversals Observed by Parker Solar Probe and their Relation to the Origin of Solar Wind.*

Similarly, Parker Solar Probe is returning lots of new results we will also highlight over 2021-2022

A post on these was also recently published to help highlight the vEGU21 session ST1.4 which is themed on Parker Solar Probe.



Credit NASA



WISPR image of Venus. Credit NASA

### Filmmakers get creative with the sounds of satellite data

Dr Martin Archer · October 19, 2020 · Uncategorized · No Comments



Martin Archer (EGU public engagement grant winner) provided content on the results of his EGU funded project, as well as on effective public engagement best practice.

### Tips on engaging outside of your echo chamber

Dr Martin Archer · February 10, 2021 · Uncategorized · No Comments

In my [previous blog](#), I highlighted that public engagement needs to go beyond traditional approaches such as lectures, since these tend to only attract audiences who are already highly interested in science. However, our science is relevant to (and funded by) everyone, so we have a duty to engage beyond simply this “scientific echo chamber”. But how do you even approach attempting this? It seems like a very daunting task, but I’ll try and break down some introductory steps that should set you on your way.

- **Maintain an average post frequency of 1 per month, 1000-1500 words.**
- **Focus on topical ST science, but also provide space for community issues and professional development.**
- ***Further improve the diversity of blog authors, to better represent our wide community.***
- **Continue to directly solicit content.**
- **We would also appreciate community suggestions of content they could provide, or authors we can approach.**

# Communication facilities

**New:**

Twitter:

Facebook:  
Division

Blog:

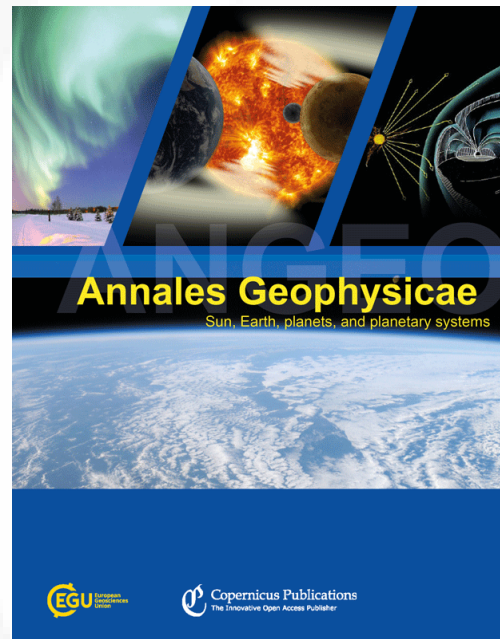
@egu\_st

EGU Solar-Terrestrial

[blogs.egu.eu/divisions/st](https://blogs.egu.eu/divisions/st)



# 8. ANGEO Update



## Annales Geophysicae Editorial Board 2020 (newly invited editors in bold)

### Editors in Chief

I. Daglis, C. Jacobi, I. Mann

### Sun and Heliosphere

M. Haberreiter, M. Temmer, P. Wurz

### Magnetosphere & Space Plasma Physics

G. Balasis, I. Daglis, M. Gkioulidou, W. Li, V. Maget, A. Milillo, Y. Miyoshi, C. Mouikis, M. Palmroth, **J. Rae**, E. Roussos, N. Sergis

### Earth's Ionosphere and Aeronomy

D. Buresova, A.G. Elias, K. Hosokawa, H. Liu, S. Milan

### Terrestrial atmosphere and its relation to the sun

C. Jacobi, **T. Giannaros**, **A. Kavanagh**, V. Kotroni, P. Pisoft, M. Salzmann, **G. Stober**

### Terrestrial Planet Systems

B. Foing, E. Palomba, S. C. Werner

### Small bodies to dust

D. Bockelee-Morvan, J. De Keyser, I. Mann, T. Mukai, K. Tsiganis

+ 9 guest editors



## Special issues

[► Alphabetically](#)[► \*\*Chronologically\*\*](#)[► By latest activity](#)[► Inter-journal SIs only](#)

### 2020

- [Special Issue on the joint 19th International EISCAT Symposium and 46th Annual European Meeting on Atmospheric Studies by Optical Methods, 2020](#)

Eds. Juha Vierinen, Noora Partamies, Daniel Whiter, and Andrew J. Kavanagh

### 2019

- [7th Brazilian meeting on space geophysics and aeronomy, 2019](#)  
Eds. Igo Paulino, Inez Batista, Fabiano Rodrigues, Marcos D. Silveira, and Christoph Jacobi
- [Satellite observations for space weather and geo-hazard, 2019](#)  
Eds. M. Piersanti, L. Conti, X. Shen, and G. Balasis
- [Solar magnetism from interior to corona and beyond, 2019](#)  
Eds. V. Fedun, S. Shelyag, E. Scullion, A.K. Srivastava, G. Verth, and M. Temmer
- [Vertical coupling in the atmosphere–ionosphere system, 2019](#)  
Eds. P. Koucka Knizova, E. Yiğit, C. Arras, K. Baumgarten, W. Ward, and C. Jacobi

### 2018

- [Dynamics and interaction of processes in the Earth and its space environment: the perspective from low Earth orbiting satellites and beyond \(SE/ANGEOS inter-journal SI\), 2018](#)  
Eds. C. Stolle, J. L. Chau, E. Doornbos, M. Korte, A. Kuvshinov, J. Kusche, H. Lühr, R. Nakamura, J. Vogt, and G. Balasis

Papers in	2020	2019
Submissions to ANGEOD	96	160
Regular	82	111
Special Issues	14	49
Published in ANGEOD	93	87

Impact factor: 2019: 1.490

(2018: 1.585 / 2017: 1.621 / 2016: 1.610 / 2015: 1.731 / 2014: 1.709 / 2013: 1.676 /  
2012: 1.518 / 2011: 1.842 / 2010: 1.620 / 2009: 1.648 / 2008: 1.660 / 2007: 1.427)



## Papers submitted

2020	96
2019	160
2018	133
2017	226
2016	213

## Some reasons for decreasing numbers

Covid-19

Reduced number of SIs

Change to 2-stage in January 2018

Move to open access system, and increasing  
ACPs

Competitors publish for free (JASTP, ASR,  
SoPh...)

Other growing scientific fields (e.g. planets...)

# 9. 2021 GA/ST Scientific Programme

## vPICO sessions

All scientific sessions at vEGU21 will be run in the new virtual PICO (vPICO) format, which is modelled after the popular interactive touchscreen presentations used at in-person EGU General Assemblies. Each 1.5-hour-long vPICO session will feature approximately 20 abstracts and be divided into two parts: an overview and chats.

### 1) Overview

- **2-minute talks:** an introductory round of live 2-minute talks (each based on a single slide) will be presented in a central video chat moderated by the session conveners. The slide (\*.png, \*.jpg, 150 dpi) should summarize the essence of the research in the meeting abstract and **must be uploaded at least 24 hours prior to your session's start**.
- While conveners, chairpersons, and presenting authors gather in the live video chat, the session attendees watch the stream from these live presentations and can comment in form of a text chat, all combined on the session page.
- Conveners have the option of including one 10-minute solicited presentation per 1.5-hour session time block.
- Further details of presentation formats and rules are provided in the [presenter guidelines](#).

### 2) Chats

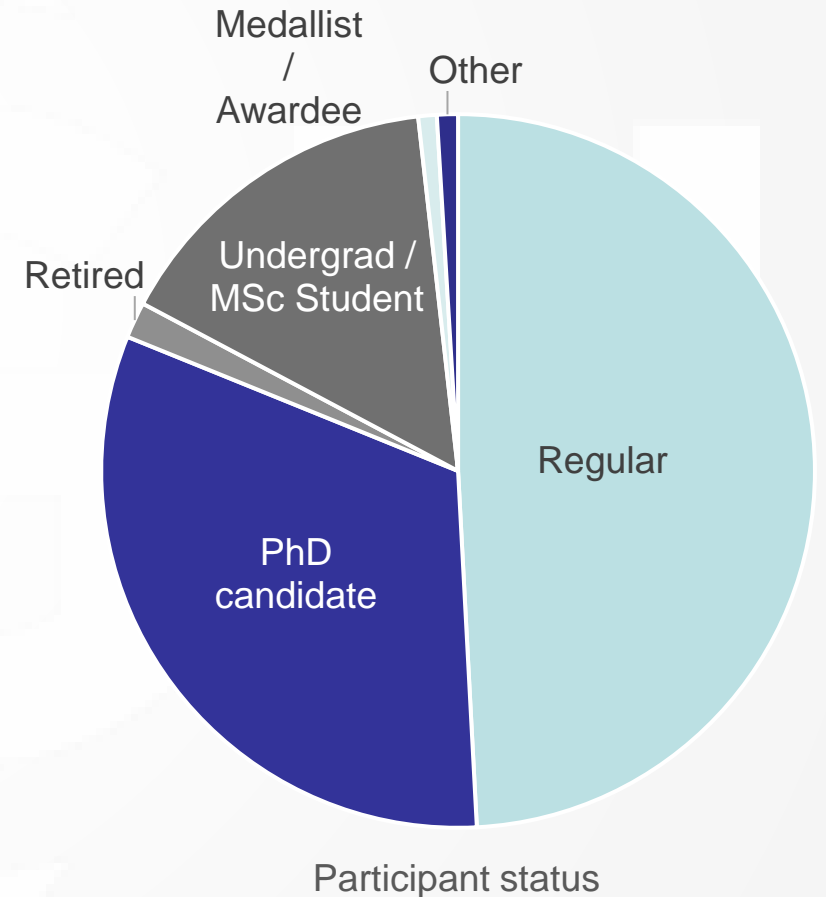
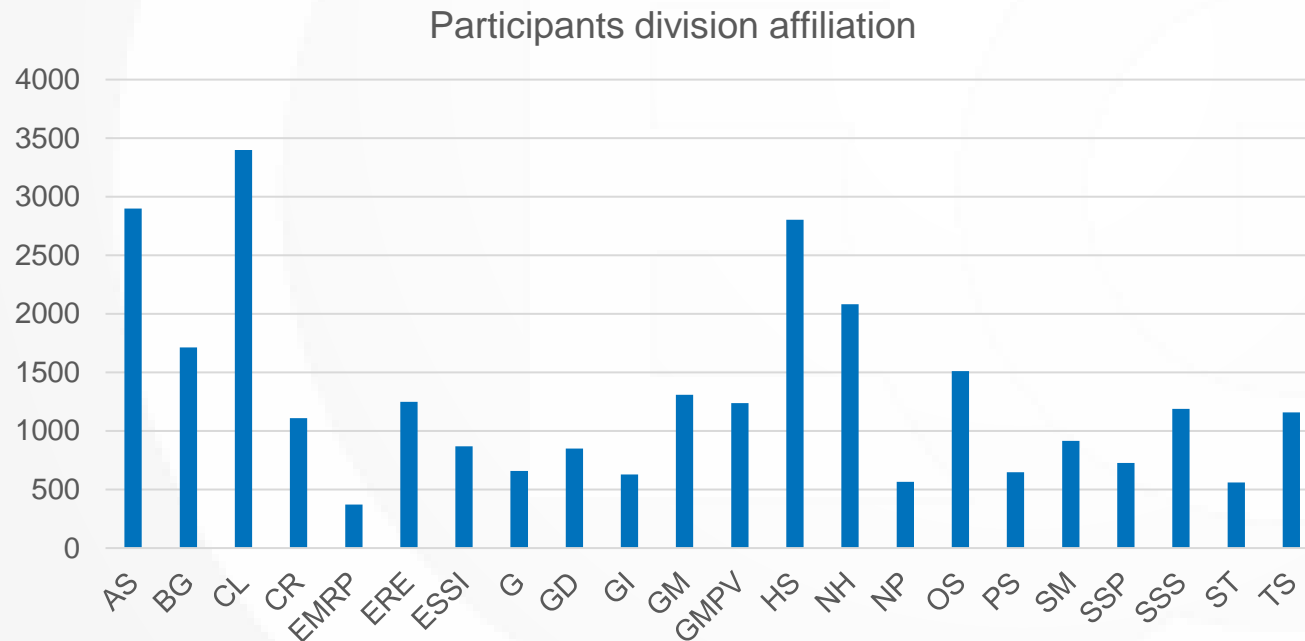
- **Breakout text chats:** starting after all 2-minute talks of a time block have been finished, each presentation will have its own live text chat, where participants can post questions to the abstract authors to stimulate further discussion, just as PICO presenters assemble around touchscreens to continue their conversations in Vienna.
- **Central video chat:** during the breakout text chats, the central video chat, formerly used only by conveners, chairpersons, and presenting authors, opens for all attendees for further group discussion hosted by the conveners. Attendees will be able to simultaneously participate in the central video chat and as many of the live text chats as they wish.
- Attendees will be able to simultaneously participate in the central video chat and as many of the live text chats as they wish.

## **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

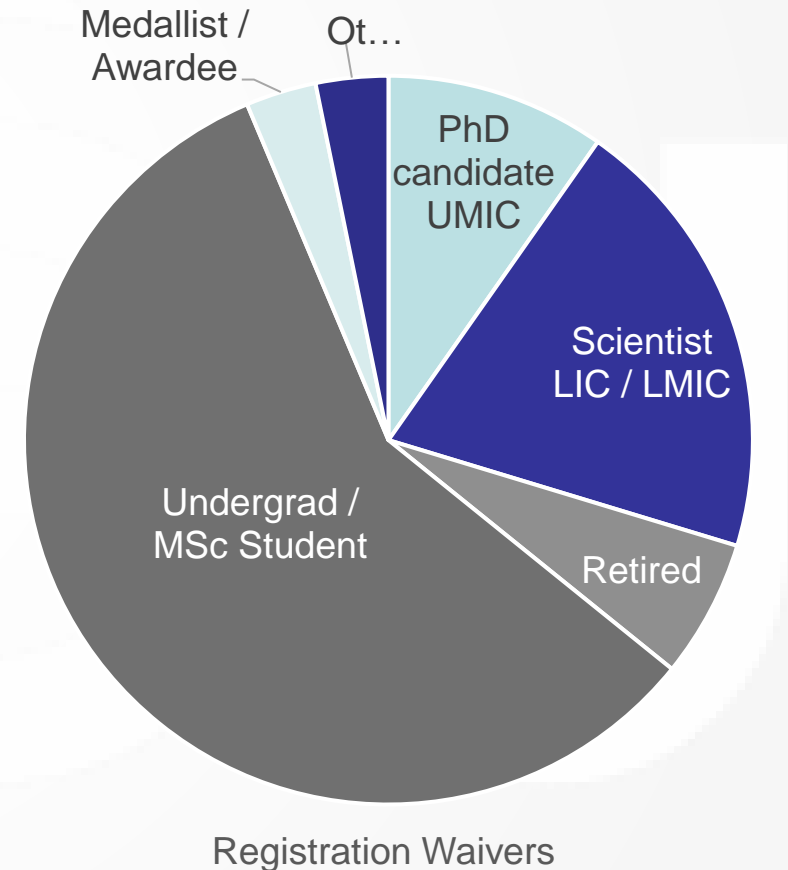
## vEGU21: Registration numbers and breakdown

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



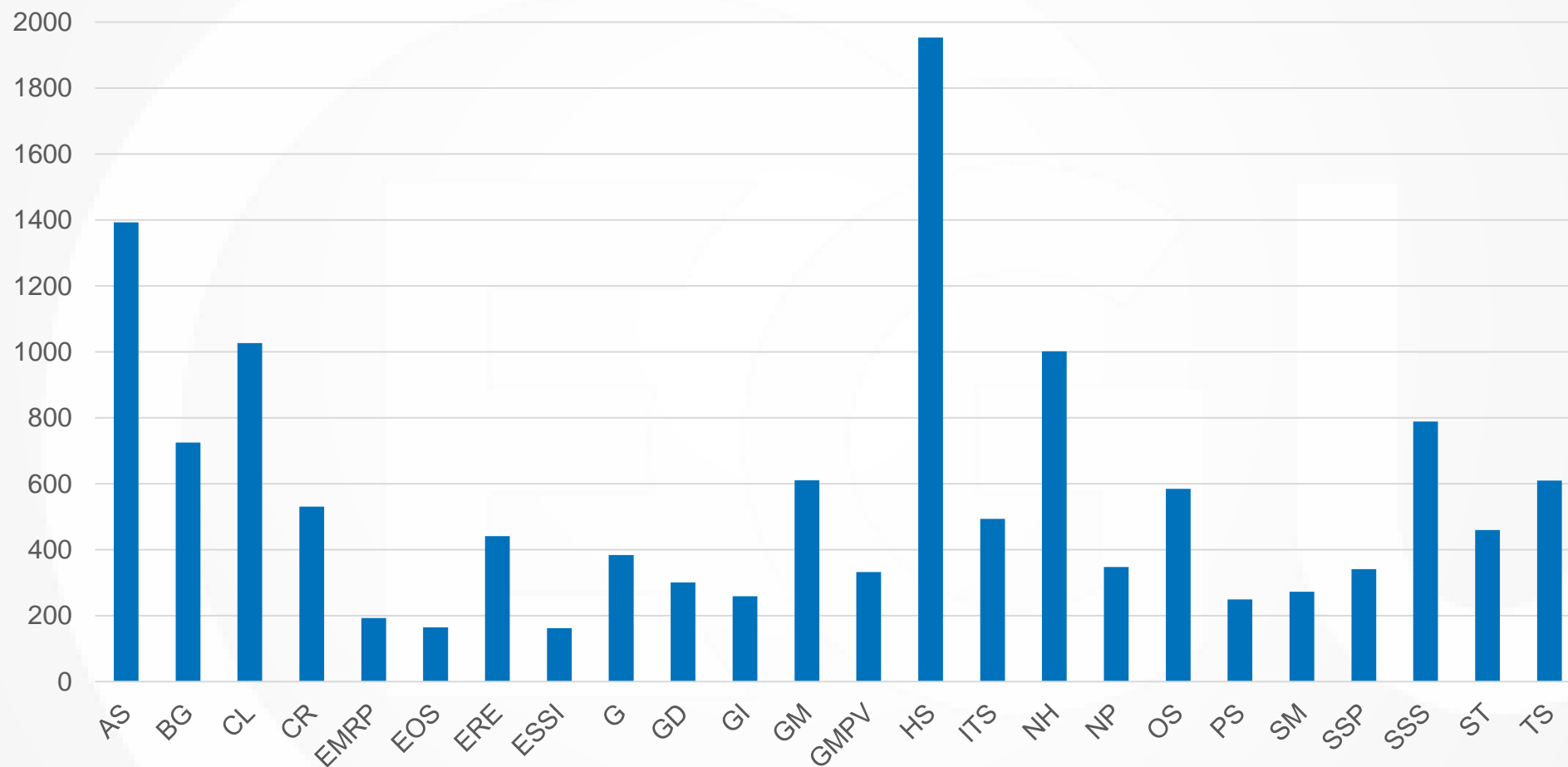
## vEGU21: Registration fee waiver programme

- 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, ...)



\* World Bank Definition

## vEGU21: Abstracts per Programme Group



# 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



## Equality, Diversity and Inclusion (EDI) Events at vEGU21

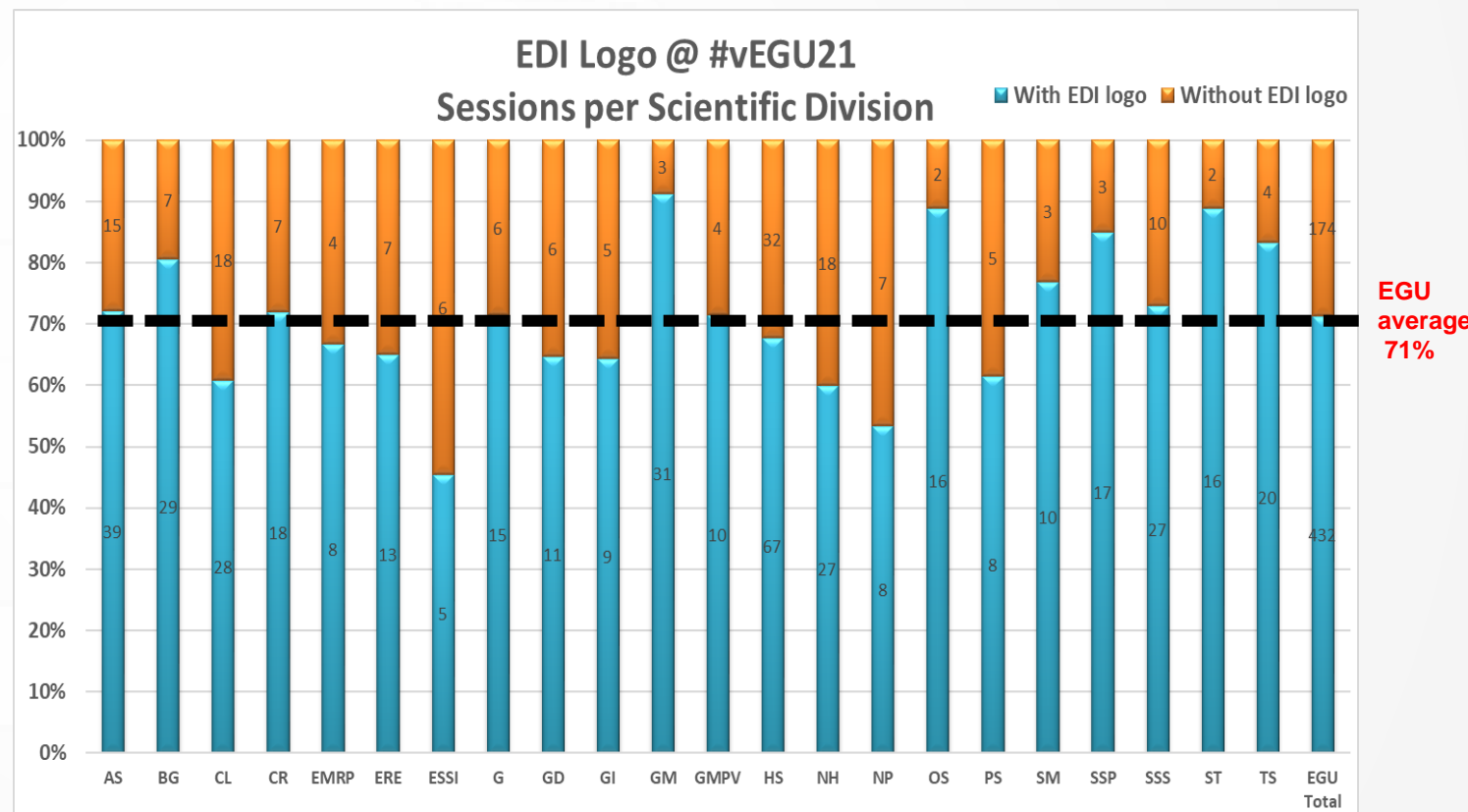
- SC2.8 Promoting Diversity in Geosciences | 19 Apr 10:00 – 11:00 CEST
- SC2.9 Practical Recommendations on how to combat discriminatory work environments in the Geosciences | 19 Apr 14:30 – 15:30 CEST
- EOS5.1 Promoting and supporting equality, diversity and inclusion in the geosciences | 26 Apr 11:00 – 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

# EDI Logo

## EDI

Session conveners fulfill all three criteria:

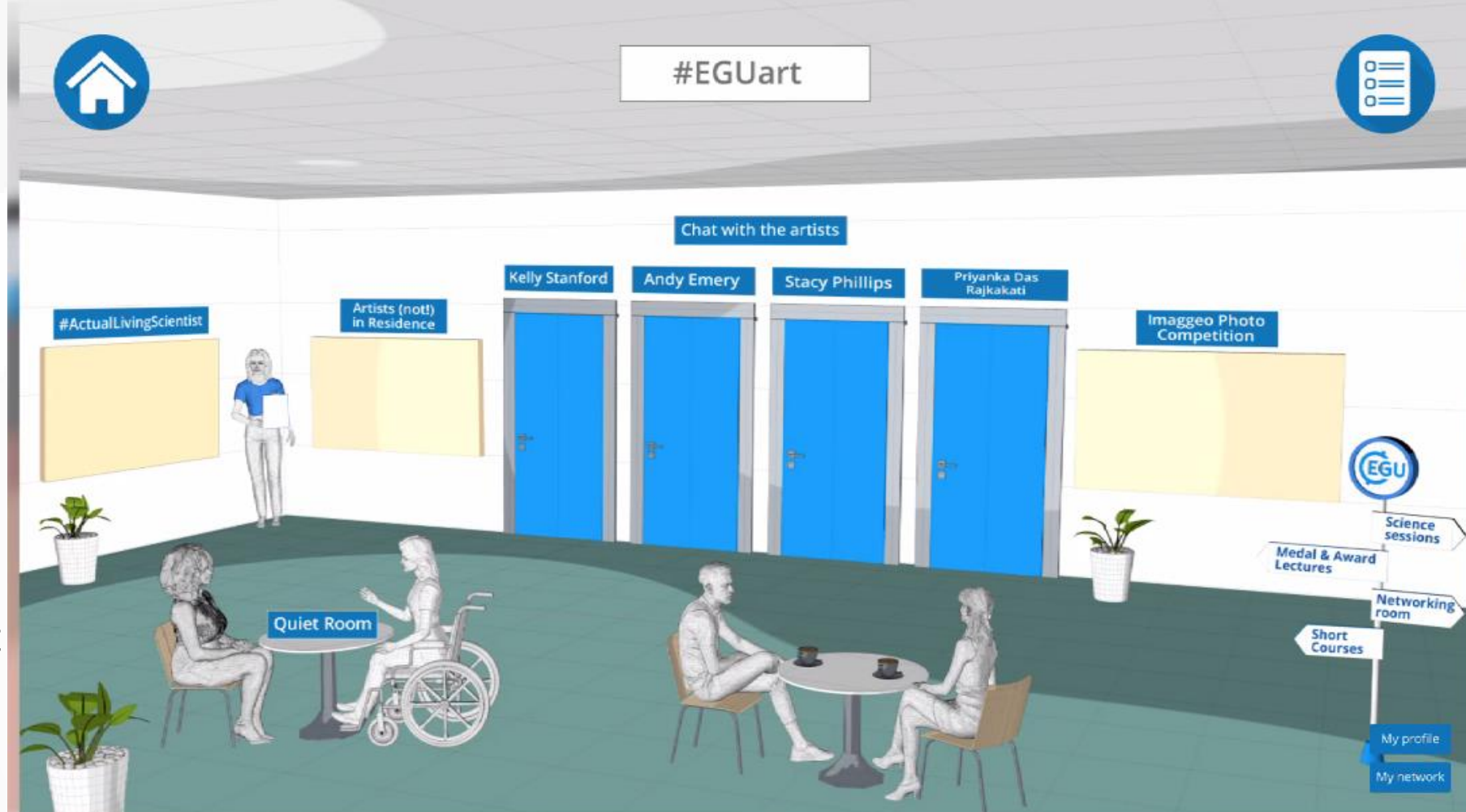
1. Include conveners from **multiple countries and institutes**
2. Have conveners from **different career stages**, including at least one ECS
3. Include conveners that represent **more than one form of gender identity**



Send suggestions to: [edilogo@egu.eu](mailto: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

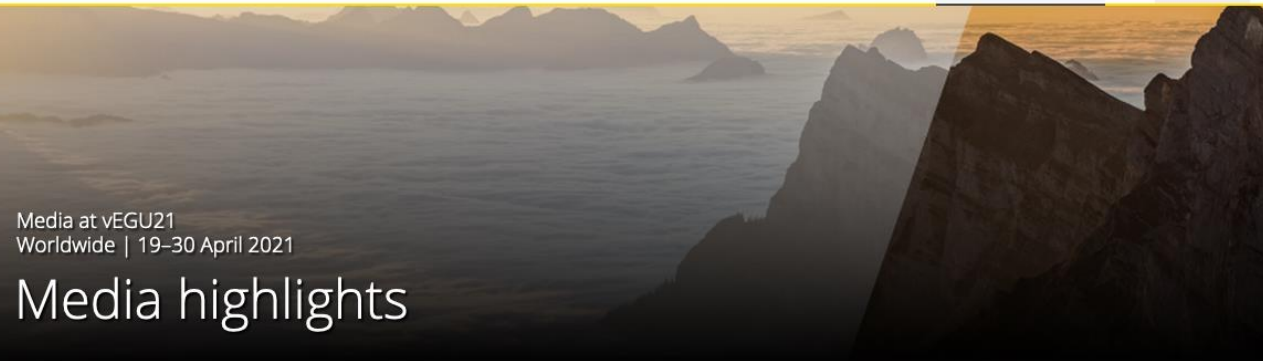
# #vEGU21 Media activities

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



Terri Cook (cook) | EGU home | General Assembly 2021 | Divisions

REGISTRATION
MEDIA HIGHLIGHTS
EGU21.EU



Media at vEGU21  
Worldwide | 19–30 April 2021


## Media highlights

Home / vEGU21 Press Centre / Media highlights

### 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



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## 10. EGU 2022 and the Future

# ST Medal/Award Nominations

- **Deadline 15. June, 2021!!**
- Evaluation purely based on scientific excellence
- Particular invitation for the nomination of female researchers
  - Hannes Alfvén Medal
  - Outstanding Early Career Scientist Awards

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Suggestions

Questions

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