



Division

Planetary & Solar  
System Sciences

# Division Meeting Planetary and Solar System Sciences (PS)

**Dr Anezina Solomonidou**

President 2023-2027

<https://www.egu.eu/ps/home/>



## WELCOME

May 5, 2026, 12:45-13:45

# Agenda

- Welcome
- **PS important events**
- Facts and figures about EGU GA 2026
- GA highlights –stay informed!
- Union & PS division awardees
- OSPP competition
- Structure of the PS Science Team (2026-) and ECS cohort
- PS diVISION
- AOB and Member comments
- Adjourn



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# PS Social Events @EGU26

→ **\*PS Annual Dinner REGISTRATION REQUIRED\***

Thu 7/5, 19:30: PS Annual Dinner @**Schöne Perle Restaurant**  
(limited seating up to 60 people)



→ **\*AWARDS\***

Tue 5/5, 19:00-19:55: PS Awards, David Bates Medal Lecture by **Patrick Irwin** and  
PS Division Outstanding ECS Award Lecture by **Hamish C.F.C. Hay**, Room E2

Thu 7/5, 12:45-13:45: Jean Dominique Cassini Medal Lecture by **Martin Bizzarro**, Room E1

# PS Social Events @EGU26

## → \*Union Symposia\*

**US3** Tue 5/5, 10:45-12:15 Towards a new RoadMap for Environmental Stewardship and Sustainability in Space Exploration **ROOM E1**

**US4** Tue 5/5, 16:15-18:00 Seas of the Sun: The Cluster Story **ROOM E1**

**GeoCinema** Tue 5/5, 18:10-19:10 Seas of the Sun: The Cluster Story **ROOM E1**

## → \*Press Conference\*

**PC3** Tue 5/5, 14:00-15:00 NASA's Juno Mission: Briefing **Press Center**

## → \*ECS EVENTS\*

Tue 5/5, 18:00-19:30: ECS Networking Reception, **Rooftop Foyer + Foyer C**

Wed 6/5, 10:45-12:30: Splinter Meeting: Strengthening ECR Engagement & Empowerment: A Joint Forum for Senior and Early-Career Researchers, **Room 2.97**

## → \*Short Courses\*

Wed 6/5, 16:15-18:00: Exoplanets 101, **Room -2.41/42**

Wed 6/5, 19:00-20:00: Building the Planetary Science Community: ECS Engagement in Communication and Outreach, **Room 2.97**

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## The EGU Programme Committee welcomes you to EGU26!



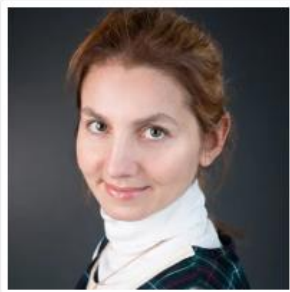
EGU25

Photo credit: MHR

**Our goal:**  
to provide a forum where scientists, especially early career researchers, can present their work and discuss their ideas with experts in **all fields of geoscience**, by offering a **hybrid, inclusive and environmentally friendly** as possible **General Assembly** that responds to the main **scientific challenges** of geosciences worldwide

## The EGU Programme Committee welcomes you to EGU26!

EGU Volunteer (NH)



Ira Didenkulova

Outgoing



Maria-Helena  
Ramos

EGU Volunteer (HS)

EGU Office



Jane Roussak  
EVENTS MANAGER

Incoming



Viktor J. Bruckman

EGU Volunteer (ERE)

Meet the PC Co-chairs &  
EGU Events Manager:

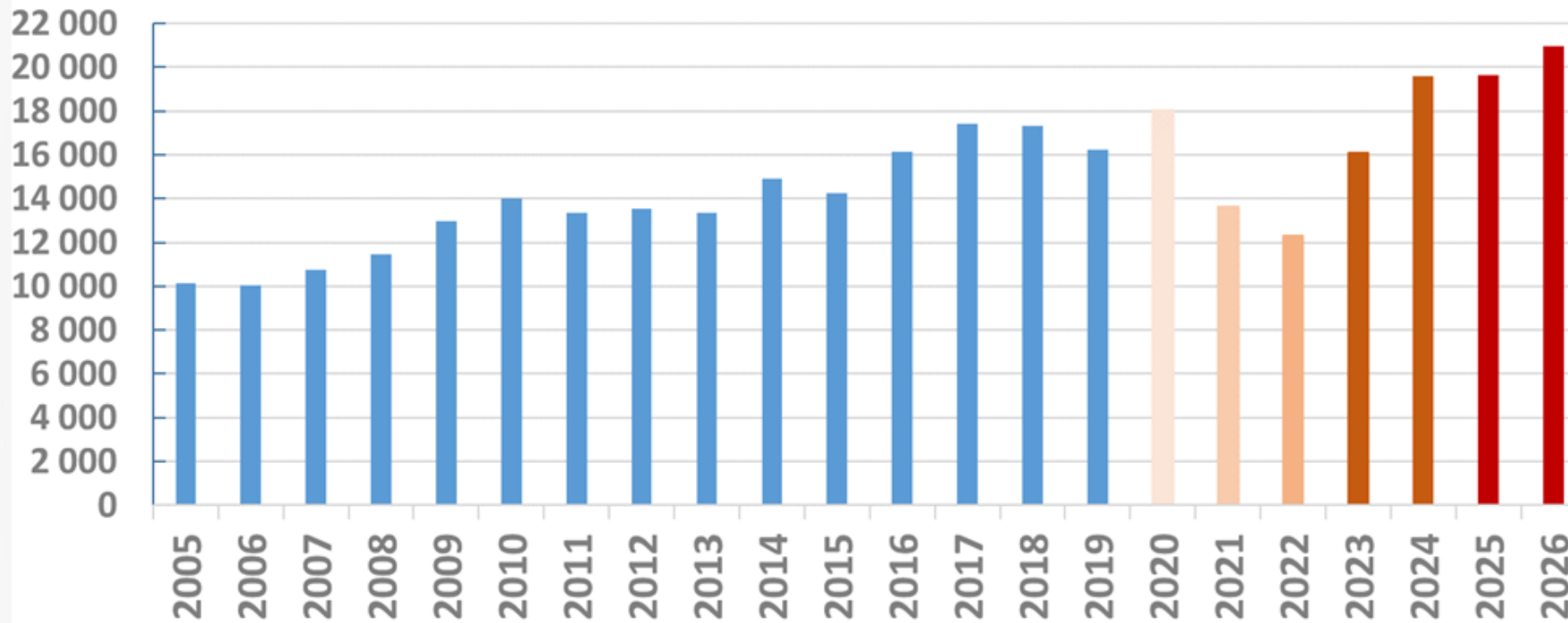
Tue, 05 May  
15:00–15:30 CEST

EGU booth – Hall X2

**EGU26 Programme Committee composition**

**(~40 people):**

[https://www.egu26.eu/about/programme\\_ committee\\_composition.html](https://www.egu26.eu/about/programme_committee_composition.html)



- 21,117 abstracts submitted at the deadline

**20,534 active scheduled abstracts in 2026**

(as of 21 April 2026)

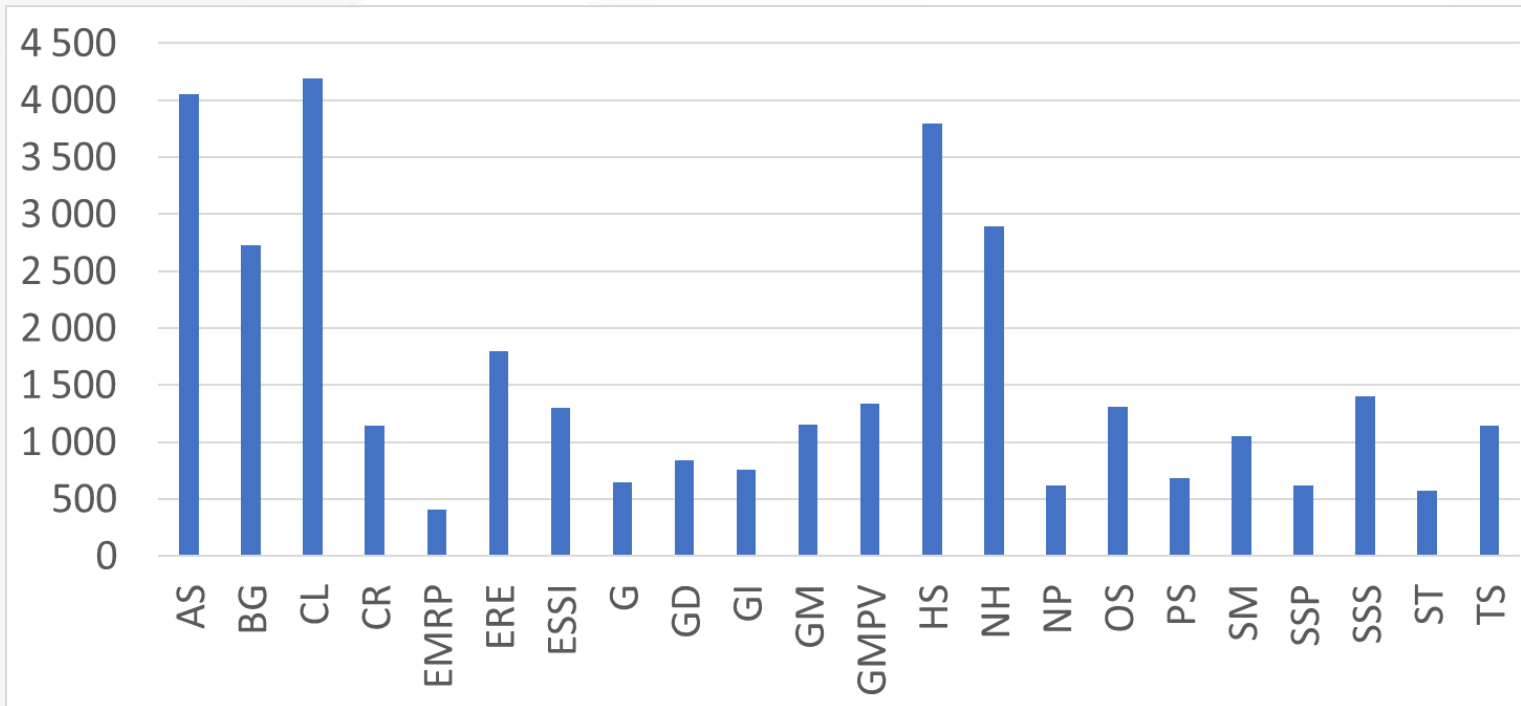
On-site only up to 2019

Online only

Hybrid orals only

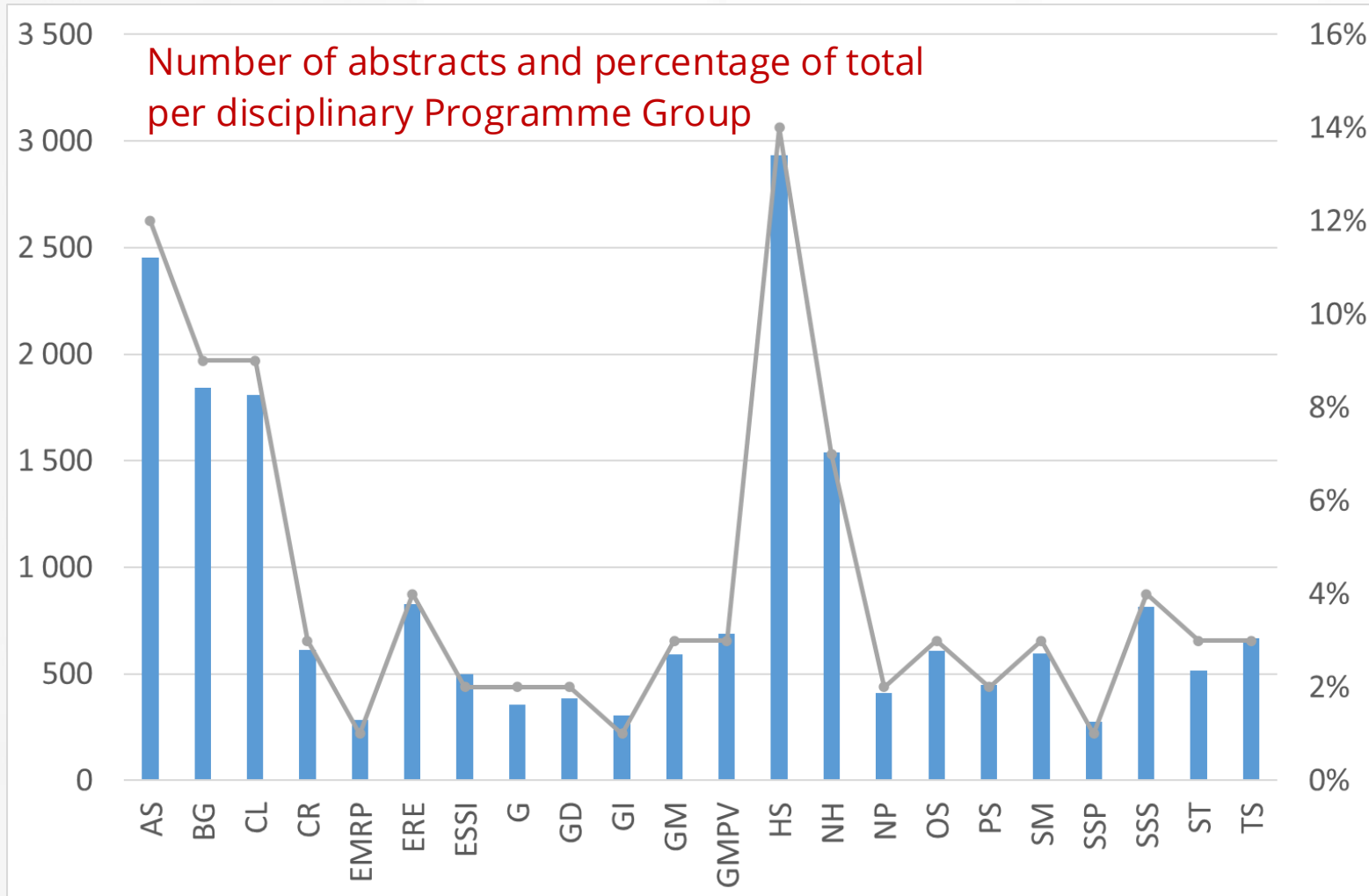
Fully hybrid since 2023

## Registration per disciplinary Programme Group



(note: a participant can choose more than one affiliation)

- **~18,000 registrations** (~8% for **virtual participation**)
- **117 different countries** for on-site participation; 99 for virtual participation
- **Travel support** for on-site participation: 1,000 eligible applications (22% increase in applications); success rate ~30%)



- Overall, about 25 abstracts per session at EGU26
- Presentation types:
  - Orals: 43%
  - PICO: 7%
  - Posters on site: 47%
  - Posters virtual: 3%
- ECS authors: 58%

(as of 21 April 2026)

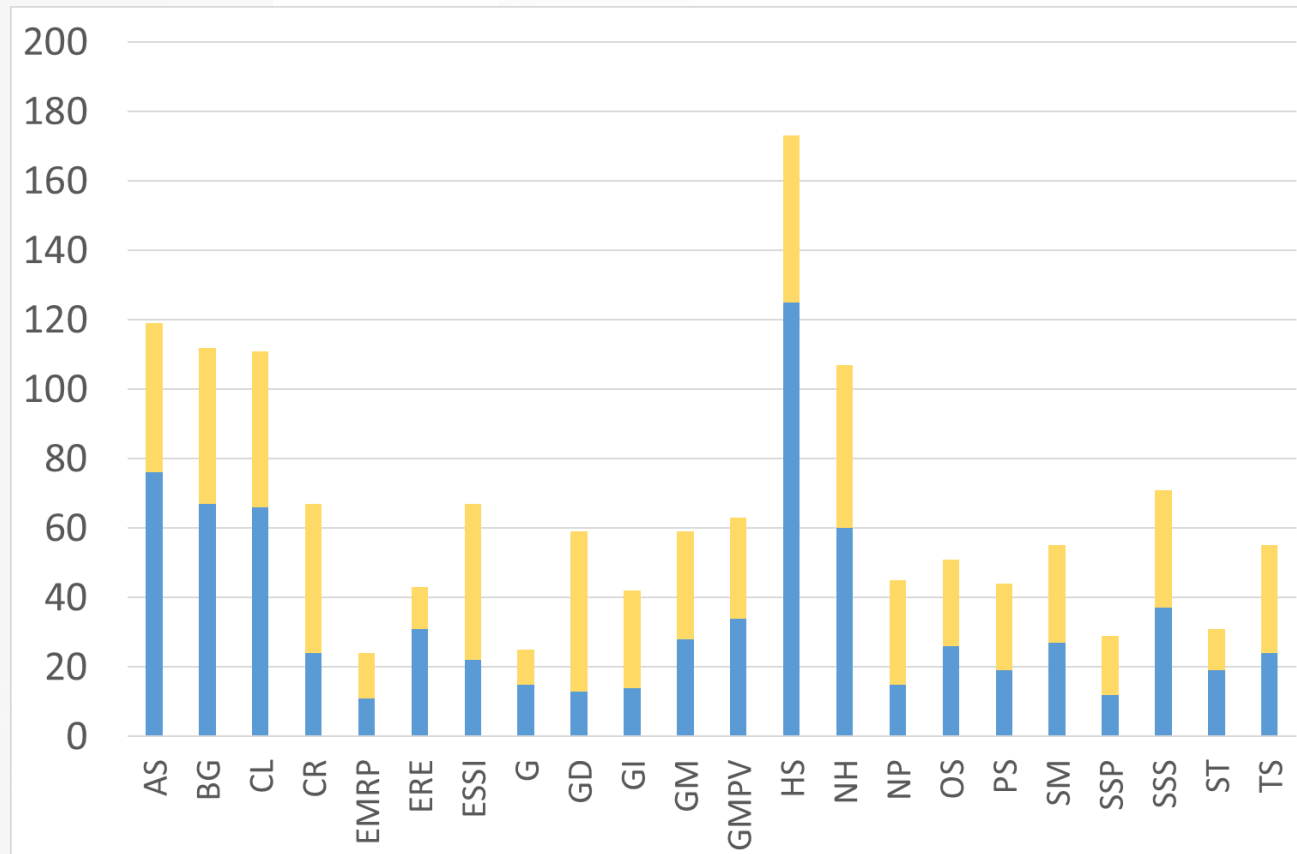
## EGU26: numbers at a glance

- **1,000+ active sessions in total**
  - ~800 disciplinary PG sessions (60 ITS sessions)
  - 62 Short Courses + Artist-in-Residence workshops
  - 20 Education and Outreach Sessions (EOS), GIFT workshop
  - 38 Medal and Award Lectures
  - 9 Union Symposia and 7 Great Debates
  - 150+ Townhall & Splinter meetings scheduled
- **ECS Networking**
- **Science for Policy**



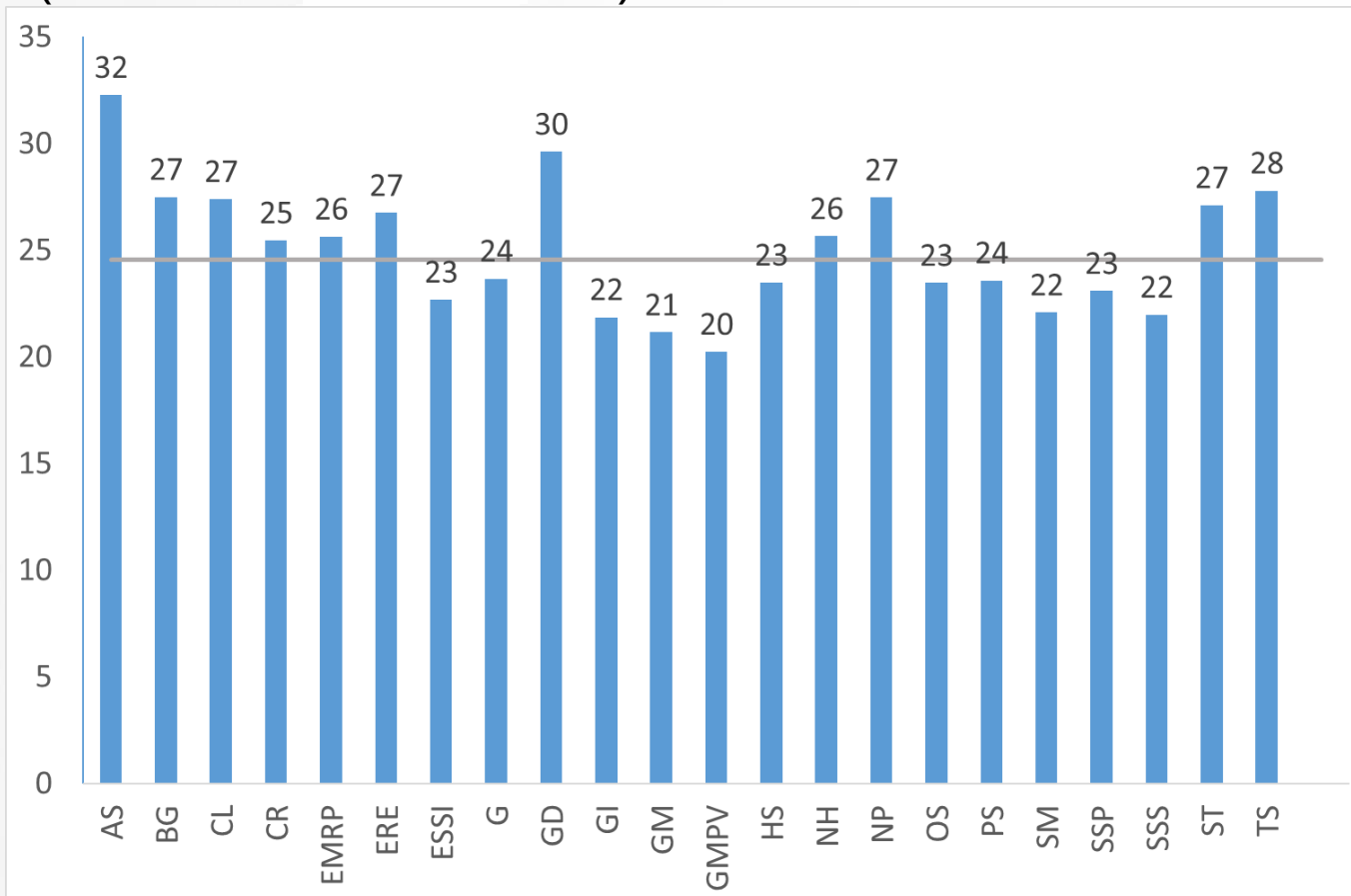
More on: [egu26.eu](https://egu26.eu)

Number of lead (blue) and co-organized (yellow) sessions per disciplinary Programme Group



(as of 21 April 2026)

Abstracts per (lead) sessions per Programme Group (PG)  
(median: 24.6 abs/session)



- Overall, about 25 abstracts per session at EGU26

(as of 21 April 2026)

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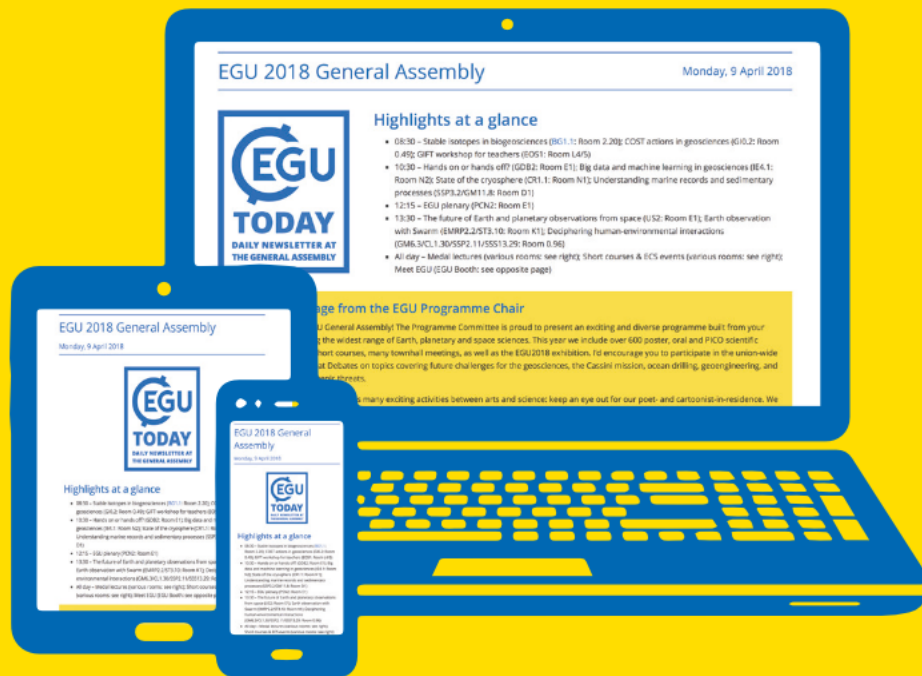


# The Daily Newsletter at the General Assembly

## EGU TODAY IS NOW DIGITAL!



[www.egu.eu](http://www.egu.eu) | [info@egu.eu](mailto:info@egu.eu)



All issues of the newsletter  
will be made available at

[www.egu.eu/egutoday/](http://www.egu.eu/egutoday/)

through the conference app  
and on screens inside the ACV.

# Did you know the EGU has a monthly newsletter?



[www.egu.eu](http://www.egu.eu) | [info@egu.eu](mailto:info@egu.eu)



The email newsletter  
informs EGU members about

- EGU NEWS AND BLOGS
- GENERAL ASSEMBLY UPDATES
- HIGHLIGHTS FROM EGU JOURNALS
- JOBS AND MEETINGS

and much more!

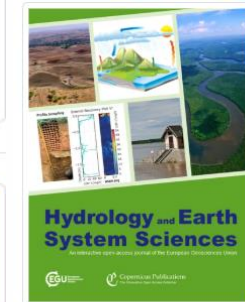
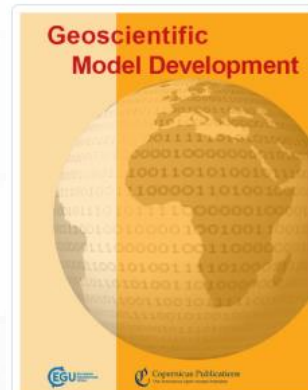
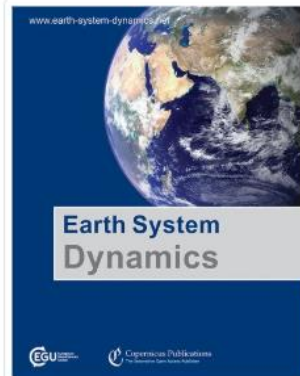
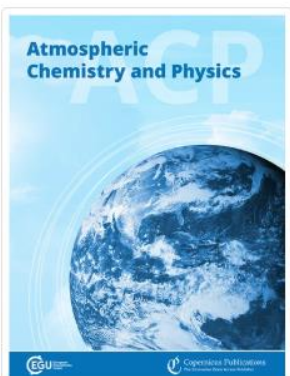
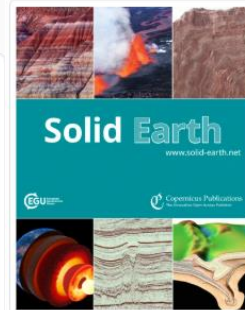
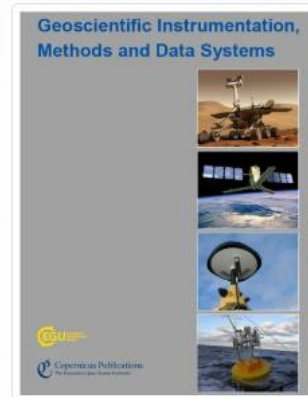
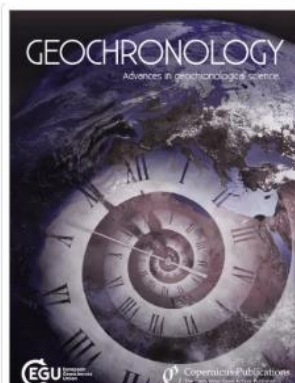
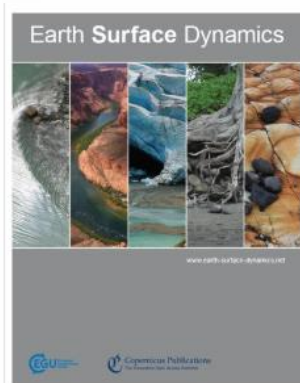
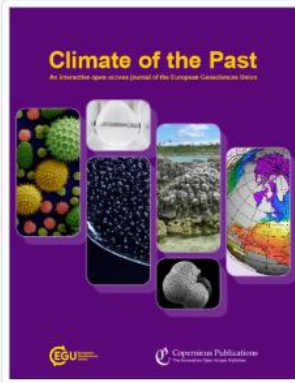
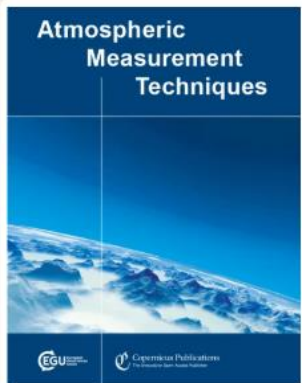
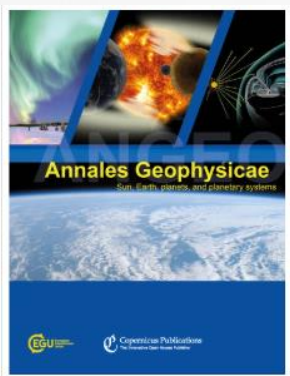


[www.egu.eu/newsletter](http://www.egu.eu/newsletter)



PUBLICATIONS

# Open access peer-reviewed journals





# EGU Award & Medal Celebration

Wednesday 6 May,  
17:00-19:30 CEST

**#EGU26**

**Room E1**

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# Planetary and Solar System Sciences

## Awards & Medals

# 2026 Jean Dominique Cassini Medal

**Martin Bizarro**

The 2026 Jean Dominique Cassini Medal & Honorary Membership is awarded to Martin Bizarro for outstanding contributions to understanding the origin of solar system bodies and for bridging cosmochemistry, astrophysics, and astronomy.

Thu, 07 May, 12:45–13:45 (CEST) Room E1



## David Bates Medal & PS Division Outstanding ECS Award

2026 David Bates Medal is awarded to Patrick Irwin (University of Oxford, UK).

Lecture: A voyage of discovery: Exploring the atmospheres of solar system planets and exoplanets with NEMESIS.



The 2026 Division Outstanding Early Career Scientist Award is awarded to Hamish C.F.C. Hay (University of St Andrews, UK).

Lecture: Neighbouring moons, partial melt, and oceans: Tides of rocky and icy outer solar system satellites.



# 2026 David Bates Medal

The 2026 David Bates Medal is awarded to Prof. **Patrick Irwin** for outstanding contributions to the study of giant planet atmospheres, together with exemplary commitment to mentoring, community building, and open science.

**A voyage of discovery: Exploring the atmospheres of solar system planets and exoplanets with NEMESIS**

**Patrick Irwin**



**TONIGHT!**

**Tuesday 5/5, 19:00-19:55**

**Room E2:**

Lecture by **Patrick Irwin**



# 2026 Division Outstanding Early Career Scientist Award

The 2026 Division Outstanding Early Career Scientist Award is awarded to **Hamish C.F.C. Hay** for pioneering work on tidal dissipation and ocean–ice coupling in icy moons, advancing our understanding of internal heating, ocean dynamics, and the habitability of ocean worlds.

**Neighbouring moons, partial melt, and oceans: Tides of rocky and icy outer solar system satellites**

**Hamish C.F.C. Hay**



**TONIGHT!**  
Tuesday 5/5, 19:00-  
20:00 Room E2:  
Lecture by **Hamish  
C.F.C. Hay**



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The 2025 Outstanding Student and PhD candidate Presentation (OSPP) Award is awarded to Gerlinde Timmermann for the poster/PICO entitled:

Influence of sensor noise levels on magnetometer calibration (Timmermann, G.; Constantinescu, D.; Kolhey, P.; Richter, I.; Auster, H.-U.; Plaschke, F.)



OSPP coordinator: Lena Noack

## Influence of sensor noise levels on magnetometer calibration

**1. Abstract**

Magnetometers are prime instruments of scientific spacecraft targeting the space plasma environments of solar system bodies. Despite extensive ground calibration efforts, regular inflight calibration activities of these magnetometers have shown to be crucial to maintain necessary data quality levels over time. Classically, 12 parameters influence the calibration: 3 gain values, 6 angles defining magnetic sensor orientations, and 3 zero level offsets that correspond to instrument outputs in vanishing ambient fields. Particularly in low fields, accurate choice of offset levels are of utmost importance. To achieve this, measurements of Alfvénic fluctuations in the solar wind are typically used. We investigate the influence of sensor noise levels on the accuracy of different calibration parameters, particularly on the offsets, using MMS magnetic field measurements.

**2. Noise Data and Methods**

- Magnetic field data from a fluxgate magnetometer measured in a magnetically shielded environment over night
- Calculate the power spectral density (PSD) with a discrete Fourier transform according to:
 
$$P(f_k) = \frac{2.41}{3N} \sum_{k=1}^N \left| \sum_{n=1}^N B_{xyz,n} \exp(-2\pi i \frac{nk}{N}) \right|^2$$
 N: number of sampling points, Δt: sampling period
- Calculate the 5th, 10th, 25th, 50th, 75th, 90th, and 95th quantile
- Downsample to 1 Hz, split into 1 min intervals, detrend linearly

**3. Magnetic Field: Data and Methods**

- Use well-calibrated 8 Hz magnetic field data from NASA's Magnetospheric Multiscale Mission (MMS)
- despun major principal axis of inertia (DMPA) Coordinate system: x-y plane is spin plane, positive z points north, aligned with spacecraft spin axis
- MMS 1 survey data in DMPA from dayside extended mission phase 3B is used between Dec 1st and Dec 31st 2017
- according to [1] dividing of data into 1 min intervals, downsampling to 1 Hz to reduce computational efforts
- Identify offsets with Hedgecock method [2] by minimizing standard deviation  $\sqrt{\sum (B - O)^2}$  for solar wind intervals with  $|B| < 10$  nT
- Only take offsets with  $-10$  nT  $< O_x, O_y, O_z < 10$  nT and only take intervals where B is fluctuating:  $\sigma(B) > \sigma_x = 0.075$
- $\delta$  = width of kernel density estimation (KDE) result in nT at 90% peak value (only intervals with Alfvénic fluctuations)

**4. Results**

Histogram of  $B_x$  Offsets based on Alfvénic Fluctuations

**4. Results - continued**

Histogram of x-Offsets with 2x noise (1.29 pT/√Hz bei 0.5 Hz) added

Histogram of x-Offsets with 5x (10.59 pT/√Hz bei 0.5 Hz) noise added

Histogram of x-Offsets with 10x noise (42.37 pT/√Hz bei 0.5 Hz) added

δ vs. PSD @ 0.5 Hz

**5. Discussion and Conclusions**

- The histogram of original data resembles a sharp bell curve,  $\delta = 0.507$  (Fig. 3)
- The offsets are changing when noise is added  $\rightarrow$  bell curve widens,  $\delta$  increases
- Noise added one or two times changes  $\delta$  by less than 0.1 nT (Fig. 4+5), five times more noise changes  $\delta$  by more than 0.3 nT (Fig. 6), adding 10 times noise more than doubles  $\delta$  and peak of KDE shifts to the left (Fig. 7)
- Adding noise can lead to challenges in determining accurate offset values
- Fig. 8 shows the PSD levels depending on the added noise at 0.5 Hz
- Fig. 9 shows the noise levels (calculated as described in section 2) of an AMR magnetometer: at 0.5 Hz it has a value of 200 pT
- If the magnetometer has already a high noise level, determining the offsets won't be possible

**Acknowledgements**

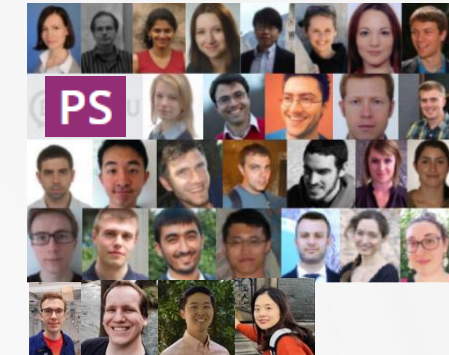
This project is supported by the Federal Ministry of Economic Affairs and Climate Actions (BMWK) on the basis of a decision by the German Bundestag.

**References**

[1] Plaschke, F.: Solar wind sufficient for FGM offsets, Geosc. Instrum. Method. Data Syst., 8, 285-291, 2019

[2] Hedgecock, P.C.: A correlation technique for magnetometer zero level determination, Space Science Instruments, 1, 83-90, 1975

# OSPP: Outstanding Student and PhD candidate Presentation contest



## OSPP contest at EGU

- highlights poster and PICO presentations
- since 2003 (initiated by HS, PS included since 2010)
- 1 per ~30 participants awarded (~2300 participants)
- 2023: 28 participants, 2024: 49 participants, 2025: 37 in PS

## Who can participate?

- first and presenting author
- either currently a BSc or MSc student or PhD candidate
- or last degree obtained in year of GA

## Who votes?

- 3 pre-defined judges per participating presentation
- ALL EGU participants (from post-doc level on, not co-author, no shared affiliation) can vote as well on abstract page!



**WE NEED YOU!!!**

## What is evaluated?

- scientific content (relevance, methods, ...)
- presentation (organization, aesthetic appeal, ability to answer questions, ...)

## Why participate?

- Better visibility for your research
- Award certificate and ceremony
- Free open-access publication in one of the EGU journals
- Conference fee waiver for next EGU



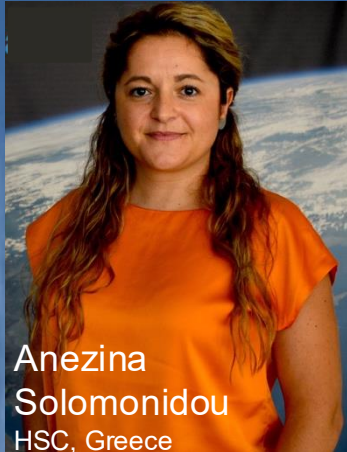
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# Structure

# Division Officers '25-'26

President (23-27)



Anezina  
Solomonidou  
HSC, Greece

Dep. President



Joana S.  
Oliveira  
ESAC, Spain

SO: Terrestrial Planets



Franck  
Montmessin  
U Paris-Saclay, France

SO: Outer Planets



Tristan  
Guillot  
OCA, France



Panayotis Lavas  
U Reims, France

SO: Small Bodies



Chrysa Avdellidou  
U Leicester, UK

SO: Space Weather



Moa Persson  
IRF, Sweden

SO: Exoplanets



Martin Turbet  
LMD, France

SO: Astrobiology



Nozair Khawaha  
Freie Universität Berlin



Oliver Herbert  
U Vienna, Austria

OSPP Co-ordinator



Lena Noack  
F-UN, Germany

ECS Rep



Salvatore Buoninfante  
INAF, Italy

# Outgoing officers 2026

OSPP Co-ordinator



**Lena Noack**

F-UN, Germany

**We are very grateful for your service and support to the  
PS division. Thank you!!!**

# Incoming President 2027

**Our incoming Division President!  
2027-2029**



**Joana S. Oliveira**  
ESAC, Spain

# Structure

# Incoming officers 2026

**JOIN US!**

[ps@egu.eu](mailto:ps@egu.eu)

[ecs-ps@egu.eu](mailto:ecs-ps@egu.eu)

[policy@egu.eu](mailto:policy@egu.eu)

Policy Officer



OSPP Co-ordinator



Social Media Manager



ECS Co-representative





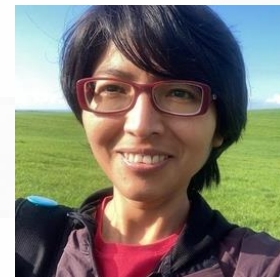
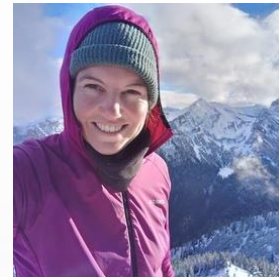
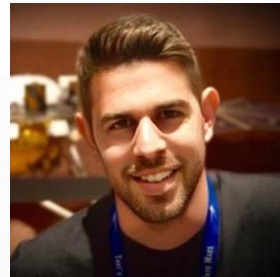
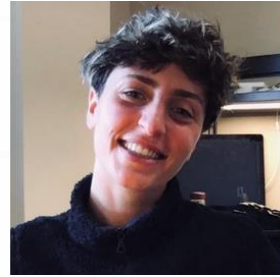
# Early Career Scientist Representatives



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



[ecs@egu.eu](mailto:ecs@egu.eu)



SPM156

## Building the Planetary Science Community: ECS Engagement in Communication and Outreach

Organized by Anezina Solomonidou | Co-organized by: Joana S. Oliveira, Salvatore Buoninfante

**Join our ECS team!**

This splinter meeting will bring together members interested in contributing to the PS Division's communication activities, including the division blog, social media channels, and other outreach initiatives.

The discussion will focus on identifying interested volunteers, exchanging ideas for future blog posts and communication formats, and strengthening collaboration between the ECS team and the PS Division leadership.



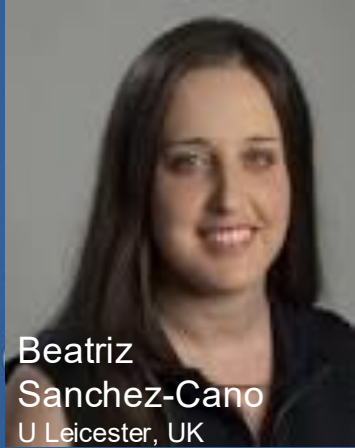
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# PS Awards & Medal Committees 2026+



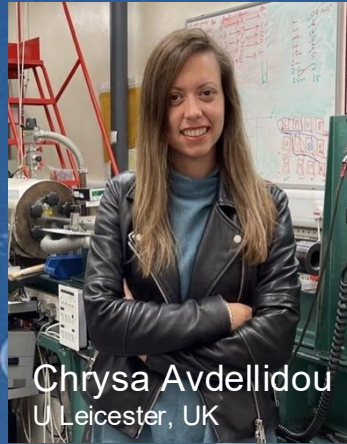
Franck  
Montmessin  
U Paris-Saclay, France

**A&M Chair**



Beatriz  
Sanchez-Cano  
U Leicester, UK

**A&M committee**



Chrysa Avdellidou  
U Leicester, UK

**A&M committee**



Ricardo Hueso  
U of Basque Country

**A&M committee**



Shangchun Teng  
U of Hong Kong

**A&M committee**

**We are very grateful for your service  
and support to the PS division.  
Thank you!!!**



Division

# Planetary & Solar System Sciences

<https://www.egu.eu/ps/structure/>

**President**

**Anezina Solomonidou (2023-2027)**

**Deputy President**

**Joana S. Oliveira**

**PS Programme Group Chair**

**Anezina Solomonidou**

**Science Officers**

**Joana Oliveira**  
*Terrestrial Planets*

**Franck Montmessin**  
*Terrestrial Planets*

**Chrysa Avdellidou**  
*Small Bodies*

**Moa Persson**  
*Space weather & space weathering*

**Panayotis Lavas**  
*Outer Planets*

**Tristan Guillot**  
*Outer Planets*

**Nozair Khawaha**  
**Olivier Herbort**  
*Astrobiology*

**Martib Turbet**  
*Exoplanets*

**Awards & Medals Chair**  
**Awards & Medals Committee**

**Franck Montmessin**  
**Chrysa Avdellidou**  
**Beatriz Sanchez-Cano**  
**Ricardo Hueso**  
**Shangchun Teng**

**OSPP Coordinator**

**TBD**

**ECS Representative**  
**ECS Co-Representative**

**Salvatore Buoninfante**  
**TBD**

**Social Media Manager**  
**Policy Officer**

**TBD**  
**TBD**



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**A big THANK YOU**

**to all PS Officers, Conveners, Volunteers, Authors, Attendees**

**our diVISION 2026 – 2027**





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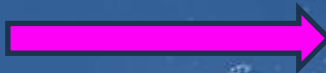
### 1. Resilient & Inclusive Community

- Hybrid participation as default, not fallback
- Reduce barriers to global participation
- Strengthen underrepresented regions



### 2. Global Positioning of PS

- Connect missions, disciplines, and communities
- Strengthen role in science-for-policy
- Increase visibility beyond EGU



### 3. Scientific Leadership

- Curated, high-impact sessions
- Focus on emerging and cross-cutting topics
- Define—not just follow—the field

Strengthening PS within EGU is essential, as planetary and space science is a fundamental pillar of the Union's identity.



Division

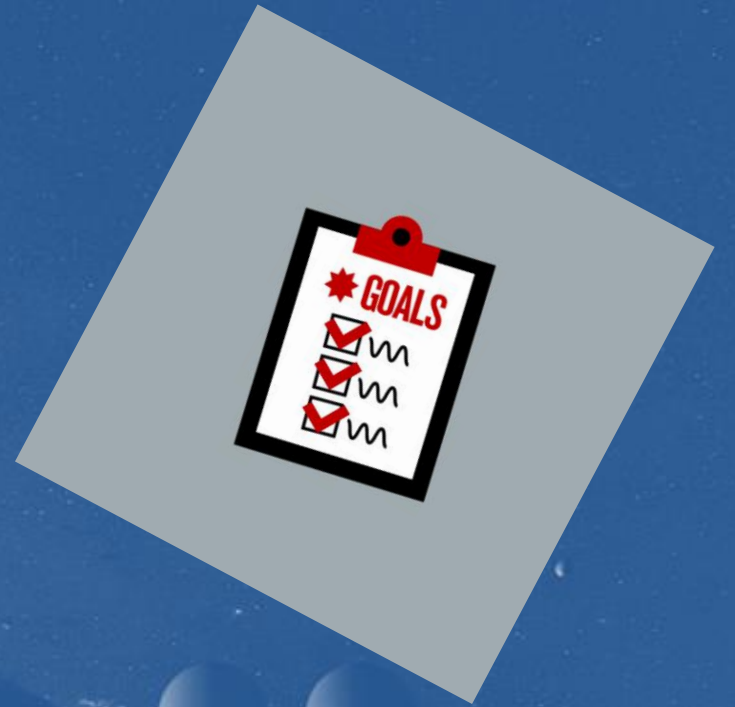
Planetary & Solar  
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## PS Vision: From Assembly to Leadership

- **Build a year-round PS community** beyond the General Assembly
- **Ensure our sessions reflect the global reality** of planetary science
  - **Capture the rapid growth of the field** within EGU
- **Establish PS as a voice in policy**, including planetary protection and exploration
  - **Define the field — not just follow it**

**Strengthening PS within EGU is essential, as planetary and space science is a fundamental pillar of the Union's identity**



## PS in action

- **Embed equity and inclusion** in all PS activities and representation
- **Support the full career spectrum**, from ECS to established leaders
- **Increase access to funding and training opportunities**
- **Promote high-impact, focused discussions** (splinter meetings, short courses)
- **Strengthen cross-division collaboration** within EGU

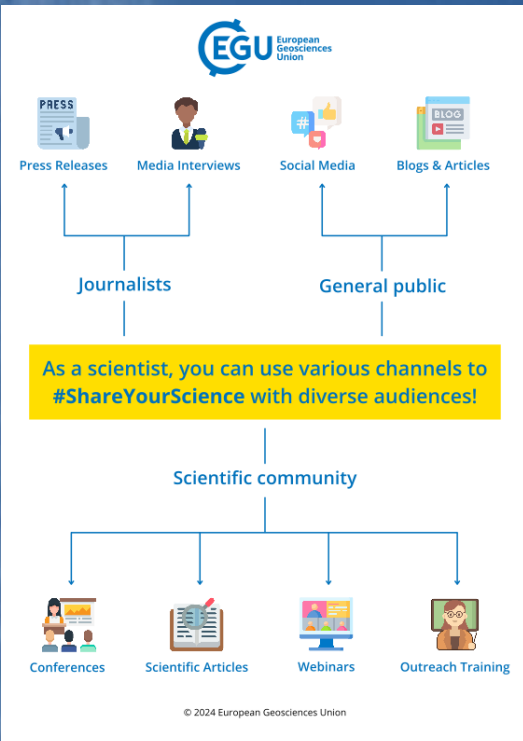


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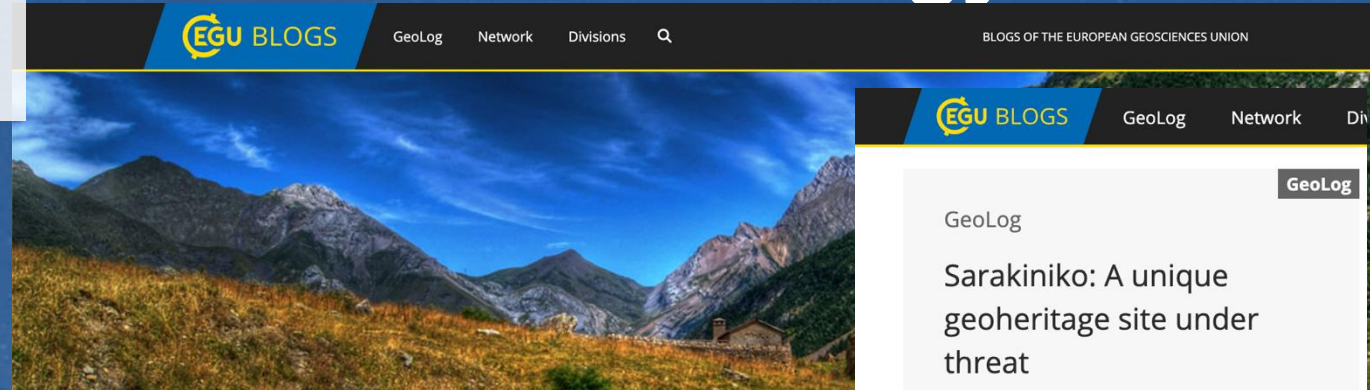
Planetary & Solar System Sciences

# Press Strategy

## Social Media Strategy



## Training Schools Conferences



[topical-events@egu.eu](mailto:topical-events@egu.eu)

Meet the Topical Events Committee ▶

Location: EGU booth – Hall X2

★ Tue, 05 May, 11:00–12:00 CEST



Sarakiniko, a stunning geological landmark on the aegean island of Milos, Greece, is under imminent threat. Known for its breathtaking white tuff formations built by the deposition of submarine volcanic eruptions and sculpted by wind and water over millions of years, this site serves as both a natural laboratory for geoscience and planetary research and a worldwide significant geoheritage site. H ... [\[Read More\]](#)

submission deadline 15 May 2026

# Open Access Publications



- Open Access Journals
- Interactive Public Peer Review



[www.egu.eu/publications](http://www.egu.eu/publications)



# EGU Persons of Trust

We are committed to providing a **safe, open, accessible, and respectful General Assembly**, as per the EGU Code of Conduct.

Any behaviour that is disrespectful or violates the Code of Conduct can be **reported to the designated Person(s) of Trust**

- by emailing **conduct@egu.eu**
- or on-site, 8:00-17:00 at the **EGU Info Desk (Yellow level)**

**Please  
Give Us  
Feedback!**



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**[egu26.eu/feedback](https://egu26.eu/feedback)**

**Anezina Solomonidou:**

**[anezina.solomonidou@hsc.gov.gr](mailto:anezina.solomonidou@hsc.gov.gr)**

**[ps@egu.eu](mailto:ps@egu.eu)**

In Memory  
**Candy  
Hansen-  
Koharcheck**



# Agenda

- Welcome
- PS important events
- Facts and figures about EGU GA 2026
- GA highlights –stay informed!
- Union & PS division awardees
- OSPP competition
- Structure of the PS Science Team (2025-) and ECS cohort
- PS diVISION
- **AOB and Member comments**
- Adjourn



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**Any Other Business**

**Comments from the members**



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# Division Meeting Planetary and Solar System Sciences (PS)

## ADJOURN

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