



# EGU 2019

## Solar-Terrestrial Sciences (ST)

### Division Meeting

Olga E. Malandraki

12 April 2019, 12:45–13:45 , Room L4/5



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

# AGENDA

1. Approval of the 2018 minutes
2. Awards and Medals 2019
3. Medal Committees
4. OSPP 2018 Award
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. 2019 GA/ST Scientific Programme
10. EGU 2019 and the Future
11. Any Other Business

# 1. Acceptance of the minutes of the ST Division Meeting 2018

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

and this year's Meeting Agenda

## 2. Awards and Medals 2019

# 2019 Jean Dominique Cassini Medal & Honorary Membership

***Margaret G. Kivelson***

The 2019 Jean Dominique Cassini Medal & Honorary Membership is awarded to Margaret G. Kivelson **for pioneering work in using magnetic fields to understand the interiors of planets and moons, which has revolutionised our vision of them as habitable worlds.**

***Periodicities in planetary magnetospheres***

Thursday, 11 April 2019, 12:45-13:45, Vienna, Austria

# 2019 Hannes Alfvén Medal

***Daniel Baker***

The 2019 Hannes Alfvén Medal is awarded to Daniel Baker for **outstanding, multi-faceted contributions to the near-Earth space plasma environment research and predictions, Earth's radiation belt environment monitoring, and planetary space plasma studies.**

***Multi-Year Observations of the Earth's High-Energy Radiation Environment***

Monday, 8 April 2019, 11:30-12:30, Vienna, Austria

# 2019 Julius Bartels Medal

***Masatoshi Yamauchi***

The 2019 Julius Bartels Medal is awarded to Masatoshi Yamauchi  
**for extraordinary work in space physics and planetary science.**

***Ion phenomena in space***

Wednesday, 10 April 2019, 09:15-10:15, Vienna, Austria

# 2019 ST ECS Award

***Chao Xiong***

The 2019 ST Early Career Scientist Award is given to Chao Xiong **for his outstanding research on space weather effects on the thermosphere and ionosphere.**

***The influence of ionospheric plasma irregularities on the GNSS receiver onboard low Earth-orbiting satellites***

Wed, 10 Apr, 15:30 – 15:45 / Room L1



# Invitation for Nominations for Awards and Medals

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

**Next Deadline for nominations: June 15, 2018**

## **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 Alfven/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 Alfven Medal' for 2020

## **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 detail: <http://www.egu.eu/awards-medals/awards-and-medals/>*

## 3. Medal Committees

# Julius Bartels Medal Committee 2020

## **Julius Bartels (current committee):**

Norma Crosby (Chair)

Jeffrey Forbes

Yuri Shprits

Ilya Usoskin

## **Proposed 2020 committee:**

Norma Crosby [CHAIR]

Yuri Shprits

Ilya Usoskin

Jeffrey Forbes [OUT]

Masatoshi Yamauchi [IN]

# Hannes Alfvén Medal Committee 2020

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

Iannis Dandouras [Chair]

Stephen Fuselier

Julia Thalmann

Sami Solanki

## **Proposed 2020 committee:**

Iannis Dandouras [CHAIR]

Stephen Fuselier

Julia Thalmann

Sami Solanki [OUT]

Daniel Baker [IN]

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

Number of Participants in 2018: 49

# ST 2017 Outstanding OSPP Award

***Pauli Väisänen*** and ***Irina Zhelavskaya***

***‘Long-term evolution of the power-law spectrum of galactic cosmic rays in 1953-2016’***

***Pauli Väisänen, Ilya Usoskin, and Kalevi Mursula***

***‘Systematic analysis of machine learning techniques for Kp prediction in the framework of the H2020 Project ‘SWAMI’***

***Irina Zhelavskaya, Yuri Shprits, Ruggero Vasile, Claudia Stolle, Jürgen Mataka***

*Poster presented at EGU 2018, Vienna*

## 4. OSPP Award

Eligible for the **Outstanding Student Poster and PICO Awards** are students that:

- are first author and personally present the poster or PICO;
- satisfy one of the following criteria:
  - are a current undergraduate (e.g., BSc) or postgraduate (e.g., MSc, PhD) student;
  - are a recent undergraduate or postgraduate student (conferral of degree after 1 January of the year preceding the conference) who are presenting their thesis work

## 4. OSPP Participation

### Registered Posters

2016: 45

2017: 28

2018: 49

2019: 39

Thanks to the conveners and judges for making this possible!



## 5. ST Division Organisation and Officers

# Solar-Terrestrial (ST) Division President

Olga Malandraki  
(former Deputy President)

ST Division President at EGU2019 GA

ST Division Deputy President

Margit Haberreiter (outgoing 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 2021

# ST Scientific Officers

- **ST1 The Sun and Heliosphere**

‘Solar Physics’: Manuela Temmer: confirmed for 2020

‘Heliosphere’: Olga Malandraki: confirmed for 2020



- **ST2 Magnetosphere:**

Yulia Bogdanova: confirmed for 2020



- **ST3 Ionosphere and Thermosphere:**

Dalia Buresova: confirmed for 2020



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

# ST Liaison Officers 2020

- **Publications:**  
Manuela Temmer: confirmed for 2020
- **OSPP Coordinator:**  
Chao Xiong: confirmed for 2020
- **Early Career Scientist (ERC) Representative**  
Theresa Rexer: confirmed for 2020



## ST Liaison Officers 2020 cont.

- **News, Media, Education and Public Outreach, Webmaster**  
Athanasios Papaioannou (stepped down)  
Luke Barnard [IN]: confirmed for 2020
- **Scientific Affairs, Foreign Affairs, Division Liaison**  
Olga Malandraki: confirmed for 2020



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

**Theresa Rexer**

ECS ST Representative

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

# 6. ECS Activities in our division

## Early Career Scientist Representative

**Theresa Rexer**  
ecs-st@egu.eu



Theresa is an enthusiastic space physicist working on mostly on the plasma and wave interactions in the ionosphere and the aurora. As the ECS Representative for the ST Division she is working on increasing the awareness of the activities for ECS in the division. She and her small team 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. This year, they additionally organised a social event for ECS as the GA is an important meeting place for ECS.

## ECS Team

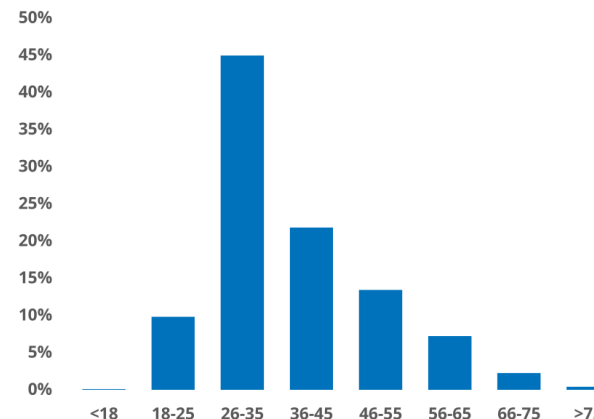


**Christine Smith-Johnsen**  
Postdoc at the Birkeland  
Center for Space Science

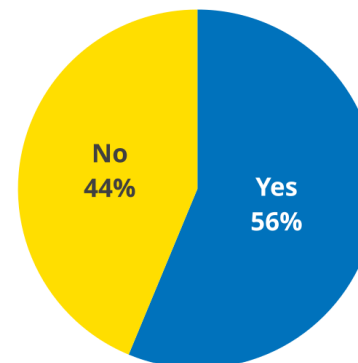


**Jone Peter Reistad**  
Postdoc at the Birkeland  
Center for Space Science

## What is your age?



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





MEET THE EXPERTS

# THE FUTURE OF SOLAR TERRESTRIAL RESEARCH

Are you interested in how the sun affects the near earth space? How well do we understand the sun-earth system, and what challenges lie ahead for you as an early career scientist to embark upon?

**Listen to the experts and discuss the future of our community at this EGU Short Course**



**Eric Priest**

Expert on solar physics and how the solarwind connects to our magnetosphere



**Esa Turunen**

Expert on ionospheric physics and measurements of the ionosphere using incoherent scatter radars



**Margaret Kivelson**

Expert on space- and magnetospheric physics, of earth and other planets

**Thursday 11 April**

**| 16:15 – 18:00**

**| Room -2.62**



European  
Geosciences  
Union

# Improved communication facilities

## **New:**

Twitter:

@egu\_st

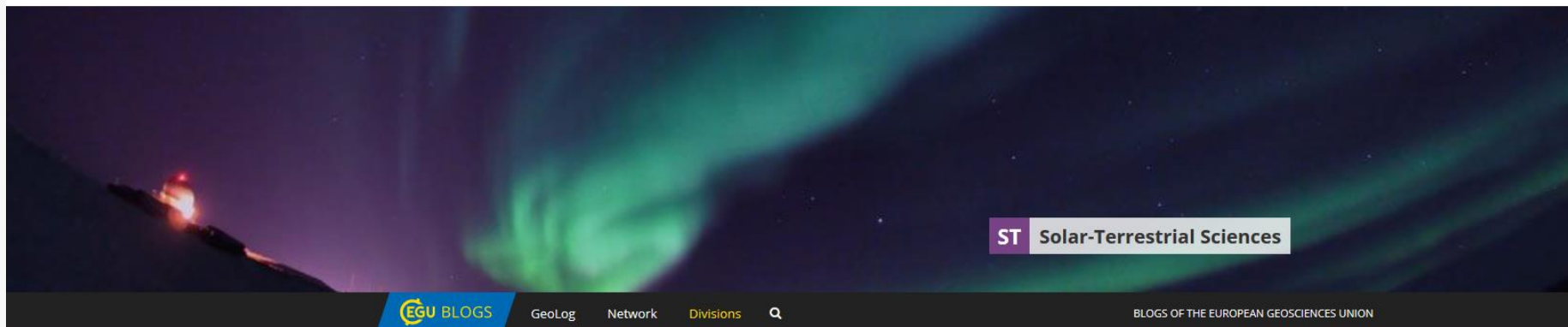
Facebook:

EGU Solar-Terrestrial

Division

Blog:

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



## New insights to the north-south asymmetries of auroral features

Jone Peter Reistad · February 14, 2019 · Science Posts · No Comments



Aurora Borealis above the EISCAT Svalbard Radar. Credit: Jone Peter Reistad

Recent research on the simultaneous displays of aurora in both hemispheres have lead to new knowledge of how

### 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 Athanasios Papaioannou who welcomes guest contributions. To submit a post, simply drop him an email.



### SUBSCRIBE TO BLOG

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### EGU DIVISION BLOGS





**Luke Barnard**



**Jamey R. Szalay**



**Jone Peter Reistad**



**Kamalam Vanninathan**



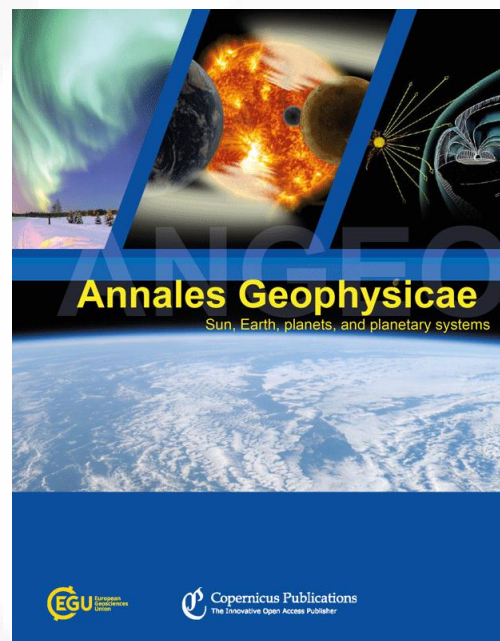
**Koen Hendrickx**

## **PLAN FOR IMPROVEMENTS**

- **Maintain similar post frequency of 1 per month, 1000-1500 words**
- **Focus on topical ST science, but also provide space for community issues**
- ***Improve the diversity of blog authors, to better represent our wide community***
- **To do this, we will directly solicit content, but we would also appreciate the community suggesting content they could provide, or suggesting authors we can approach.**



# 8. ANGEO Update



## Annales Geophysicae Editorial Board 2018 (newly invited editors in bold)

### Editors in Chief

I. Daglis, C. Jacobi, I. Mann

### Sun and Heliosphere

C. Scott, M. Temmer, M. Haberreiter, **P. Wurz**

### Magnetosphere & Space Plasma Physics

G. Balasis, I. Daglis, M. Gkioulidou, **W. Li**, V. Maget, A. Milillo, Y. Miyoshi, C. Mouikis, C. Owen, M. Palmroth, 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, A. Kavanagh, V. Kotroni, P. Pisoft, M. Salzmann

### Terrestrial Planet Systems

**B. Foing, S. C. Werner**

### Small bodies to dust

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

+ 18 guest editors

## Special issues

- [Alphabetically](#)      ► [Chronologically](#)      ► [Inter-journal SIs only](#)

### 2019

- [7th Brazilian meeting on space geophysics and aeronomy, 2019](#)  
Eds. Igo Paulino, Inez Batista, Fabiano Rodrigues, Marcos D. Silveira, and Christoph 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
- [Solar magnetism from interior to corona and beyond, 2018](#)  
Eds. V. Fedun, S. Shelyag, E. Scullion, A.K. Srivastava, G. Verth, and M. Temmer
- [Vertical coupling in the atmosphere–ionosphere system, 2018](#)  
Eds. P. Koucká Knizová, E. Yiğit, C. Arras, K. Baumgarten, W. Ward, and C. Jacobi

### 2017

- [Space weather connections to near-Earth space and the atmosphere, 2017](#)  
Eds. M. Abdu, A. Dal Lago, R. A. Buriti, J.-P. Raulin, and C. Jacobi
- [The Earth's magnetic field: measurements, data, and applications from ground observations \(ANGEOS/GI inter-journal SI\), 2017](#)  
Eds. J. Rasson, A. Gonsette, K. Arora, A. Chulliat, C. Turbitt, and G. Balasis

### 2016

- [The 14th International Symposium on Equatorial Aeronomy, 2016](#)  
Eds. E. Yizengaw, J. Makela, P. J. Erickson, K. Shiokawa, C. Stolle, D. Pallamraju, and C. Jacobi

## Papers received in 2018 and 2017

ANGEO (Discussions/traditional)	2018 papers (Discussions)	2017 papers (traditional)
<b>Total</b>	<b>133   -41.2%</b>	226
Regular papers	113 (85%)   -29.4%	160
Special issue papers	20 (15%)   -69.7%	66

## Papers published in 2018 and 2017

ANGEO	2018 (traditional and final)		2017 (traditional)	
	Articles	Pages	Articles	Pages
<b>Total</b>	<b>130 (+16.1%)</b>	<b>1599 (+19.9%)</b>	112	1334
Regular articles	90 (+7.1%)	1127 (+11.8%)	84	1008
Special issue articles	40 (+42.9%)	472 (+44.8%)	28	326

ANGEO impact factor **(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

2018	133
2017	226
2016	213
2015	201
2014	219
2013	272
2012	254
2011	311
2010	273
2009	265

## Some reasons for decreasing numbers after 2013

and 2018

Change to **2-stage** in January 2018

Move to open access system

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

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

Measures

Open Annales to **Planetary Science**, new Editor- in-Chief Ingrid Mann



# 9. 2019 GA/ST Scientific Programme



## EGU General Assembly 2018 facts

**As of 5 April (12:45), the Assembly 2018 provides:**

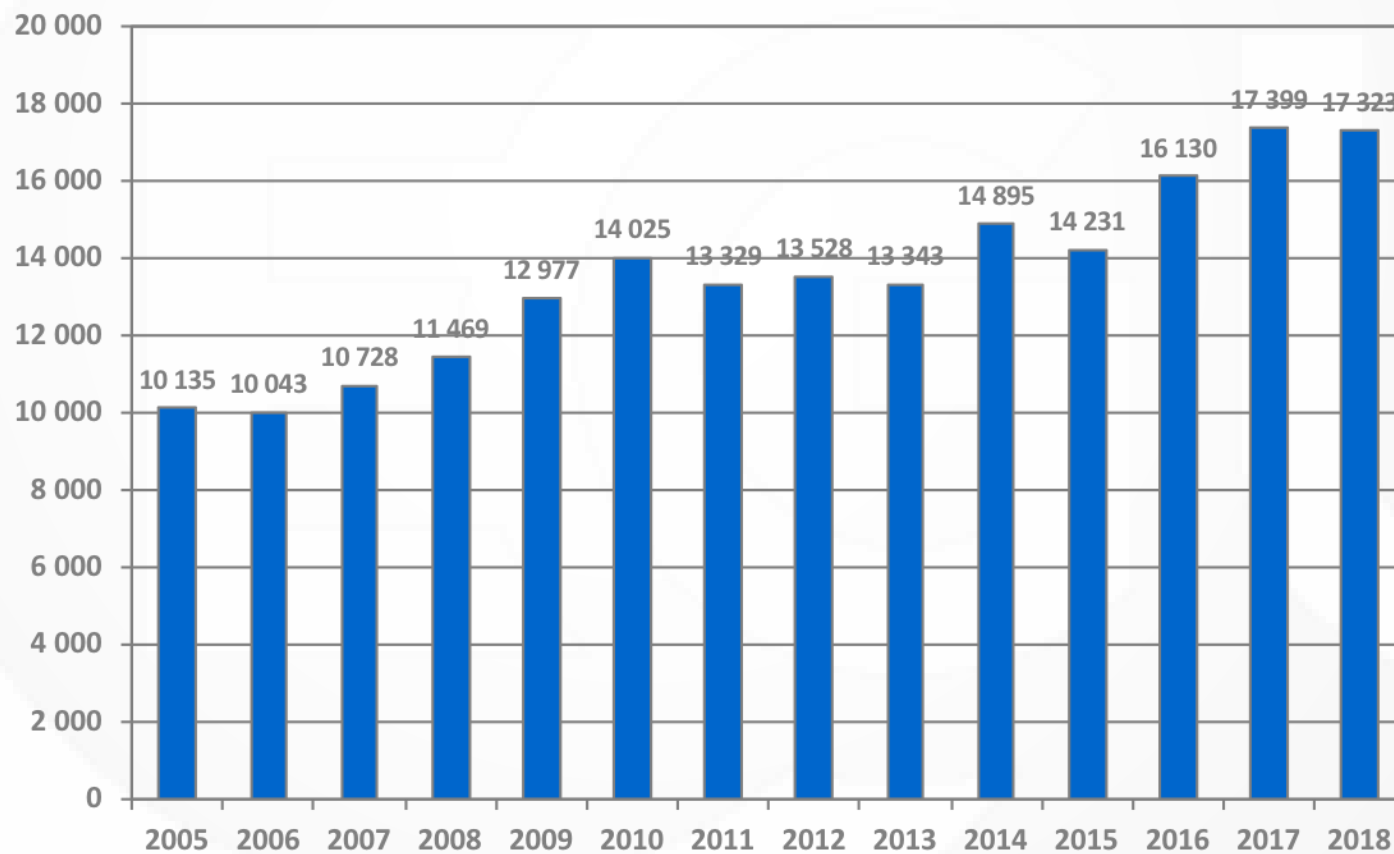
- 17,323 papers in programme | -0.44% (2017)
- 4,776 orals | 11,128 posters | 1,419 PICOs | ratio 28 / 64 / 8
- 12,733 registrations in advance | +12.37% (2017)
- 666 unique scientific sessions | 68 short courses | 294 side events\*
- 433 out of 666 scientific sessions are co-organized (65%)
- The 433 co-organized include 20 IE sessions with 459 presentations
- Original sessions: 1,355; 1,028 still active, 327 withdrawn
- Withdrawn: 309 scientific sessions, 7 SC, and 11 side events

\*Side events include the programme groups ML, PCN, FAM, TSM, SEV, PC, PPAA



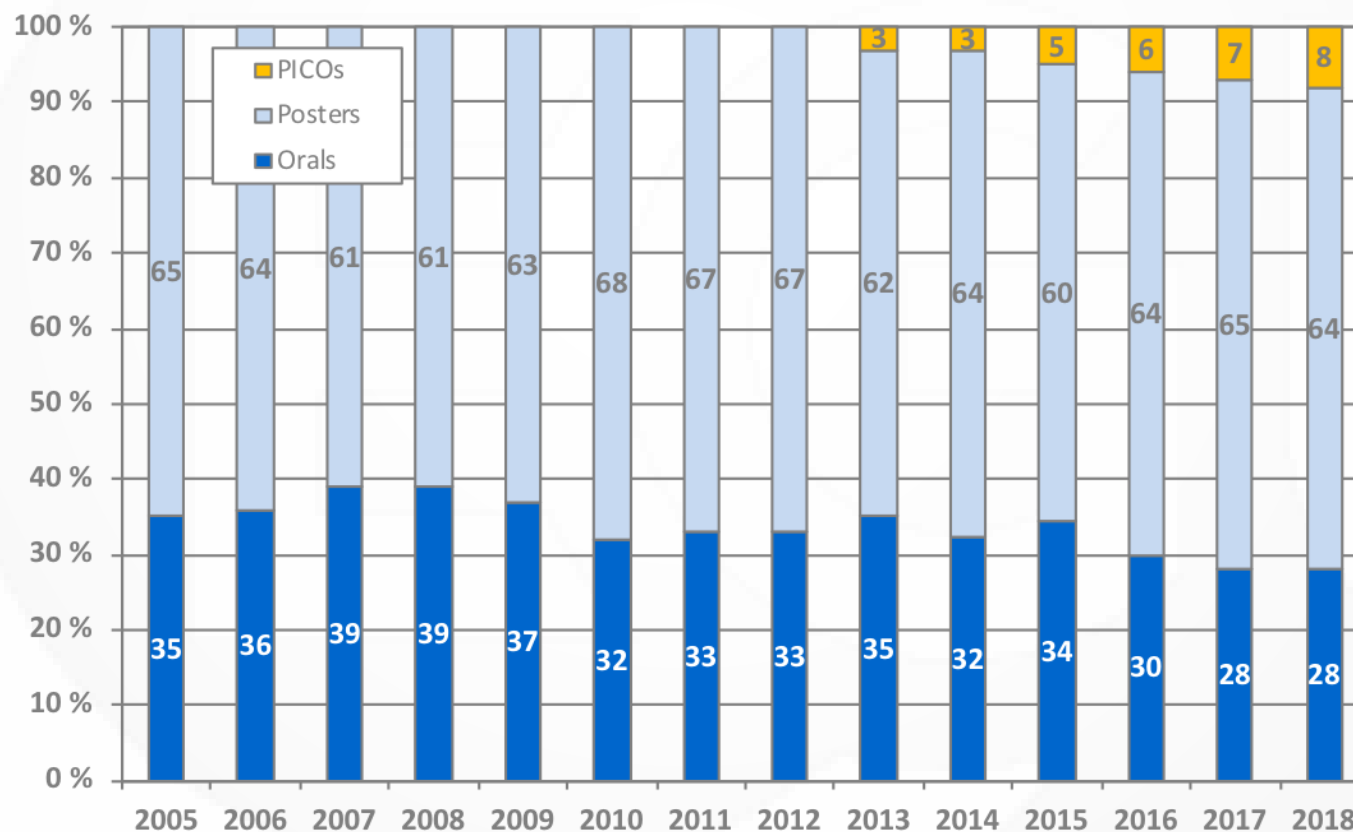
## Papers in programme 2005–2018

17'399





## Presentation ratio 2005–2018



# EGU ST 2019 Scheduling

## **Maximum number of ST oral blocks determined by:**

- EGU boundary conditions on room availability
- Oral/PICO/poster sessions in all four daily slots (next slide)
- Ratio submitted abstracts per oral session: **22 abstracts/1 oral block (90 min)???**.

## **ST oral blocks are allocated taking the following into consideration:**

- Time Requests (Requests to AVOID scheduling on the following days).
- Inter-Session Relations (No-Overlap Request).
- Number of Oral and Poster abstracts.

**Feedback is very welcome**

## 9. GA2019: New time block schedule and networking time

Block	Activity	Time	Orals	PICO	Posters
TB1	Oral, PICO, poster	08:30 - 10:15	7	15	
Break		10:15 - 10:45			
TB2	Oral, PICO, poster	10:45 - 12:30	7	15	
Lunch		12:30 - 14:00			
TB3	Oral, PICO, poster	14:00 - 15:45	7	15	
Break		15:45 - 16:15			
TB4	Oral, PICO, poster	16:15 - 18:00	7	15	
TB5	Networking	18:00 - 19:00			
TB6	Medal lectures, TM, SC	19:00 - 20:00			

### Networking time:

- Extra poster viewing
- Exhibition
- Meet colleagues
- Gather community pre-evening medal lectures
- Artists-in-residence Foyer D
- Geoscience Games Night Foyer D
- TU, WE and TH receptions at EGU booth (diversity, journals)
- No events that are inside rooms

## Communication Activities at the Assembly

### EGU Today

- EGU Today is a daily newsletter highlighting interesting workshops, lectures and GeoCinema screenings, amongst activities at the Assembly
- Paper copies will be distributed daily and are available to download at [www.egu2018.eu/egu\\_today](http://www.egu2018.eu/egu_today)

### Blogs

- GeoLog, the EGU Blog Network & EGU Division Blogs will be sharing great sessions, research, interviews and more throughout the Assembly
- Follow them at [geolog.egu.eu](http://geolog.egu.eu) and [blogs.egu.eu](http://blogs.egu.eu)

### Social Media

- Sessions will be advertised on Twitter (@EuroGeosciences) and Facebook (European Geosciences Union)
- Participants can ask questions & keep updated by following **#EGU18**

## EGU Topical events

EGU supports the organisation of meetings to promote the exchange of science:

- **EGU Galileo Conferences**

First two in 2017/2018, next call at the end of 2018

- **EGU Conferences series**

starting “NOW”! Invitation for Proposals June 1, 2018

- **Training schools** (formerly: co-sponsored events)

Open call: June 2017 (one call only for 2018)



# Angioletta Coradini Conference on Solar System and Planetary Processes.

The Angioletta Coradini Conference Series of the European Geosciences Union promotes novel and innovative research related to all aspects of space research, in particular chemical and physical processes and their interactions with the Sun, other host stars, the heliosphere and astrospheres with the planetary magnetospheres, atmospheres and climate. Proposals for the Angioletta Coradini Conference Series are welcome at any time and should be submitted to the Topical Events Committee.



Angioletta Coradini (1946 - 2011)

Italian astrophysicist and planetary scientist.

In 2007 she was awarded the David Bates Medal and in 2012 Jean Dominique Cassini Medal.

# 10. EGU 2019 and the Future

# ST Medal/Award Nominations

- **Deadline 15. June, 2019!!**
- Evaluation purely based on scientific excellence
- Particular invitation for the nomination of female researchers
  - Hannes Alfvén Medal
  - Outstanding Early Career Scientist Awards

## Promotion of PICO Sessions

- Overall increase of abstracts
- Limited number of oral blocks and rooms
- PICO Sessions are great way to communicate your science
- Very interactive
- Invited presentations possible (10min – PICO presentation)

## GA 2020 timeline

01 Jun – 21 Jun 18	Call-for-skeleton. Only sub-programme structure (headers), no sessions
25 Jun – 13 Sep 18	Public call-for-sessions Includes GDB and US
17 Sep – 12 Oct 18	Session programme finalization
11 Oct 18	PC Meeting Ismanning
1 Dec 2019	Support application deadline
15 Jan 2020	Abstract submission deadline
3-8 May 2020	EGU General Assembly

# Future format General Assembly **NOT VALID**

## Current model

TB1	Orals, PICO
Break	
TB2	Orals, PICO
Lunch	
TB3	Orals, PICO
Break	
TB4	Orals, PICO
Break	
TB5	Posters, drinks
TB6	Medal lect, TM

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

## Alternative model

TB1	Orals, PICO, Posters
Break	
TB2	Orals, PICO, Posters
Lunch	
TB3	Orals, PICO, Posters
Break	
TB4	Orals, PICO, Posters
TB5	Exhibition, drinks
TB6	Medal lectures, TM

- 6000-6400 orals
- 1800 PICO
- 12500 posters (full day).
- Poster capacity full by ~2023.
- Double poster capacity to 25000 by half-day showing time
- No room fill issues next 10 years

## New for GA 2019 RECAP SOME OF THEM ????

- No solicited presentations by conveners: “Authors (first and co-authors) should not have a solicited presentation in a session they (co-)convene. (Co-)conveners should not be presenting author, and are discouraged from being co-author, on oral presentations in a session they convene.”
- 1 abstract rule: “Authors are allowed as first author to submit either one regular abstract plus one abstract solicited by a convener, or two solicited abstracts.”
- Number of conveners on a session: At session submission minimum 2 – maximum 5
- Number of convenerships as a recommendation: 1 as main convener, maximum 3 (co-)convenerships total



# Any Other Business

Suggestions

Questions

Comments

[egu2019.eu/feedback](https://egu2019.eu/feedback)