



# EGU 2017

## Solar-Terrestrial Sciences

### Division Meeting

Margit Haberreiter

27 April 2017, 12:15–13:15 , Room L3



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

# AGENDA

1. Awards and Medals 2017
2. Medal Committees
3. OSPP 2017 Award Ceremony
4. Update on ST OSPP
5. ST Division Organisation and Officers
6. ST Early Career Scientists Activities
7. ST Education and Public Outreach Update
8. ANGEO Update
9. 2017 GA/ST Scientific Programme
10. EGU 2018 and the Future
11. Any Other Business

# Acceptance of the minutes of the ST Division Meeting 2016

# 1. Awards and Medals 2017



# 2017 Jean Dominique Cassini Medal

*Luciano less*

The 2017 Jean Dominique Cassini Medal & Honorary Membership is awarded to Luciano less his command of the Doppler radio technique leading to important discoveries about the interiors of giant planets and their moons, and for performing high accuracy tests of the theory of General Relativity.

**Tuesday, 25 Apr, 12:15–13:15 / Room E1**

***The Attraction of Gravity***

# 2017 Hannes Alfvén Medal

***Eric Priest***

The 2017 Hannes Alfvén Medal is awarded to Eric Priest for his fundamental contribution to the understanding of the mathematical complexity and physics of magnetic reconnection and the magnetic coupling of the convection zone with the solar atmosphere.

**ST1.1 Open Session on the Sun and Heliosphere**

**Tue, 25 Apr, 11:00–12:00 / Room L3**

***Our Dynamic Sun***

# 2016 Julius Bartels Medal

***Tuija Pulkkinen***

The 2017 Julius Bartels Medal is awarded to Tuija Pulkkinen for her key contributions in solar-terrestrial science, scientific management, academic leadership, and services to the space community.

**ST2.1 Open Session on the Magnetosphere**

**Mon, 24 Apr, 11:00–12:00 / Room L3**

***Understanding the space environment: simulations, statistics and space weather***

# 2017 Arne Richter Award

***Julia Thalmann***

The 2016 Arne Richter Award for Outstanding Young Scientists is awarded to Julia Thalmann for her notable contributions to understanding the magnetic field configurations in the solar atmosphere in general, and those associated to flares and Coronal Mass Ejections in particular.

Wed, 26 Apr, 12:00–12:30 / Room L3

***Advances in solar flare science through modeling of the magnetic field in the solar atmosphere***

# Nominations for Awards and Medals

<http://www.egu.eu/awards-medals/>

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

**Next Deadline for nominations: June 15, 2017**

## **Division level:**

- The Division Outstanding Early Career Scientists Awards
- The Division medals for mid-career scientists (mid career: before retirement)

## **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/>



## 2. Medal Committees

# Julius Bartels Medal Committee 2018

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

Hermann Lühr (Chair)

Jeffrey Forbes

Rumi Nakamura

Yuri Shprits

## **Proposed 2018 committee:**

Hermann Lühr (Chair)

Jeffrey Forbes

Rumi Nakamura

Yuri Shprits [OUT]

Norma Crosby [IN]

# Hannes Alfvén Medal Committee 2018

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

Loukas Vlahos [Chair]

Sandra Chapman

Stephen Fuselier

Sami Solanki

## **Proposed 2018 committee:**

Loukas Vlahos [Chair]

Sandra Chapman [OUT]

Stephen Fuselier

Sami Solanki

Iannis Dandouras [IN]

# 3. OSP 2016 Award Ceremony

By Cassandra Bolduc

Outgoing ST OSPP Coordinator

# ST 2016 Outstanding Students Poster Award

***Cecilia Norgren***

***“Kinetic scale current sheet observed at the magnetopause”***

**By Norgren, C.; Graham, D.; Khotyaintsev, Y.; André, M.; Vaivads, A.**



### 3. 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. 2017: OSPP

We currently have 28 registered posters

(Decrease by 40%)

2016: last year 45 registered posters!

Thanks to the conveners and judges for making  
this possible!

## 5. ST Division Organisation and Officers

# ST Structure and EGU principles

- **Division Presidents elected and can be re-elected only once.**
  - Margit Haberreiter: re-elected 2016, stepping down 2019
  - ST President election scheduled for autumn 2017

**Call for applications: July to September 15, 2017**

- **Deputy President**

Olga Malandraki (confirmed until autumn 2017)  
Elected ST Division President will be Deputy /  
incoming Division President until EGU GA 2019



# ST Structure and EGU principles

- **Division Officers are appointed by the Division President and approved in the Division Meetings**
- **Programme Group Chair (Division president)  
Margit Haberreiter confirmed for 2018**



# ST Scientific Officers

- **ST1 The Sun and Heliosphere**  
Manuela Temmer: confirmed for 2018  
Olga Malandraki: confirmed for 2018
- **ST2 Magnetosphere:**  
Natalia Ganushkina: outgoing 🌸  
Yulia Bogdanova: incoming
- **ST3 Ionosphere and Thermosphere:**  
Dalia Buresova: confirmed for 2018



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

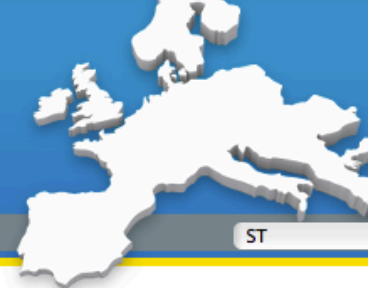
# ST Liaison Officers 2018

- **Publications:**  
Manuela Temmer: confirmed for 2018
- **OSPP Coordinator:**  
Cassandra Bolduc: outgoing  
Chao Xiong: incoming
- **Young Scientist Representative**  
Jone Peter Reistad: confirmed for 2018



## ST Liaison Officers 2018 cont.

- **News, Media, Education and Public Outreach, Webmaster**  
Athanasios Papaioannou: confirmed for 2018
- **Scientific Affairs, Foreign Affairs, Division Liaison**  
Margit Haberreiter: confirmed for 2018



Home

ST Structure

Meetings

Publications

Awards & Medals

Jobs

Division Meeting Reports

ST Blog

Education & Public  
Outreach

« Back to EGU Website

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## ST Structure

<b>President</b>	Margit Haberreiter	<a href="mailto:st@egu.eu">st@egu.eu</a>
<b>Deputy President</b>	Olga Malandraki	<a href="mailto:omaland@astro.noa.gr">omaland@astro.noa.gr</a>
<b>Programme Group Chair</b>	Margit Haberreiter	<a href="mailto:st@egu.eu">st@egu.eu</a>
<b>Science Officers</b>	Manuela Temmer The Sun and Heliosphere	<a href="mailto:manuela.temmer@uni-graz.at">manuela.temmer@uni-graz.at</a>
	Olga Malandraki The Sun and Heliosphere	<a href="mailto:omaland@astro.noa.gr">omaland@astro.noa.gr</a>
	Yulia Bogdanova Magnetosphere	<a href="mailto:yulia.bogdanova@stfc.ac.uk">yulia.bogdanova@stfc.ac.uk</a>
	Dalia Buresova Ionosphere and Thermosphere	<a href="mailto:buresd@ufa.cas.cz">buresd@ufa.cas.cz</a>
<b>Publications</b>	Manuela Temmer	<a href="mailto:manuela.temmer@uni-graz.at">manuela.temmer@uni-graz.at</a>
<b>News, Media, Education and Public Outreach</b>	Athanasios Papaioannou	<a href="mailto:atpapaio@astro.noa.gr">atpapaio@astro.noa.gr</a>
<b>Scientific Affairs, Foreign Affairs, Division Liaison</b>	Margit Haberreiter	<a href="mailto:st@egu.eu">st@egu.eu</a>
<b>Hannes Alfvén Medal Chair</b>	Loukas Vlahos	<a href="mailto:vlahos@astro.auth.gr">vlahos@astro.auth.gr</a>
<b>Julius Bartels Medal Chair</b>	Hermann Lühr	<a href="mailto:hbluehr@gfz-potsdam.de">hbluehr@gfz-potsdam.de</a>
<b>OSPP Coordinator</b>	Chao Xiong	<a href="mailto:chao.xiong@gfz-potsdam.de">chao.xiong@gfz-potsdam.de</a>
<b>ECS Representative</b>	Jone Peter Reistad	<a href="mailto:ecs-st@egu.eu">ecs-st@egu.eu</a>
<b>Webmaster</b>	Athanasios Papaioannou	<a href="mailto:atpapaio@astro.noa.gr">atpapaio@astro.noa.gr</a>

## 6. ECS ST Activities

**Jone Reistadt**

**ECS ST Representative**

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





European  
Geosciences  
Union

# Early Career Scientist (ECS) activities in our division



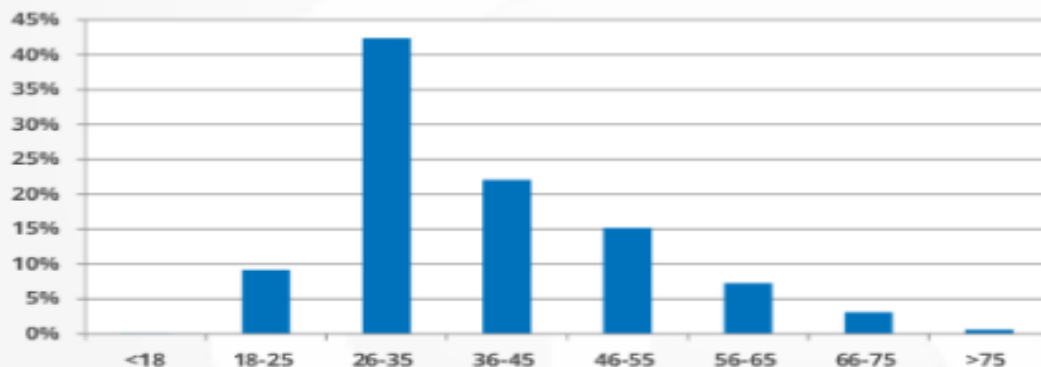
## Solar-Terrestrial Sciences (ST)

**Jone Peter Reistad**

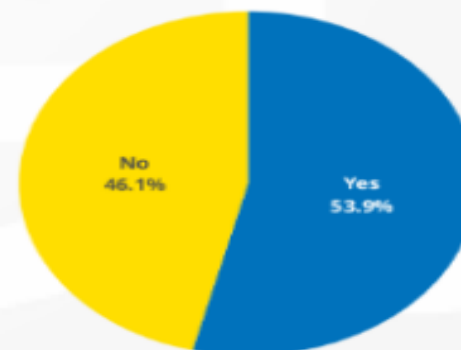
[ecs-st@egu.eu](mailto:ecs-st@egu.eu)

Jone is a space physicist working on how the two polar hemispheres are asymmetrically coupled to space. He wants to increase the awareness of ECS activities within the ST division and encourage participation at the General Assembly, which is an important meeting place for the ECS.

## 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? Do you wonder how well we understand this system? And most importantly, what challenges lie ahead for you to embark upon?**

**Tuija Pulkinen:** This years Julius Bartels awardee and an expert on the solar wind - magnetosphere coupling.



**Nat Gopalswamy:** Expert on Coronal Mass Ejections from the Sun and their impact on Earth and the heliosphere.



**Ian Mann:** Expert on magnetospheric, global scale waves in the near Earth space and the Van Allen radiation belts



**Listen to the experts and discuss the future of our community at this EGU Short Course (SC41)  
Wednesday, April 26<sup>th</sup>  
15.30 - 17.00, Room -2.31**



# 7. ST Education and Public Outreach Update

<http://www.egu.eu/st/education-public-outreach/>



# European Geosciences Union

Division on  
Solar-Terrestrial Sciences

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[Home](#)

[ST Structure](#)

[Meetings](#)

[Publications](#)

[Awards & Medals](#)

[Jobs](#)

[Reports](#)

[Education & Public Outreach](#)

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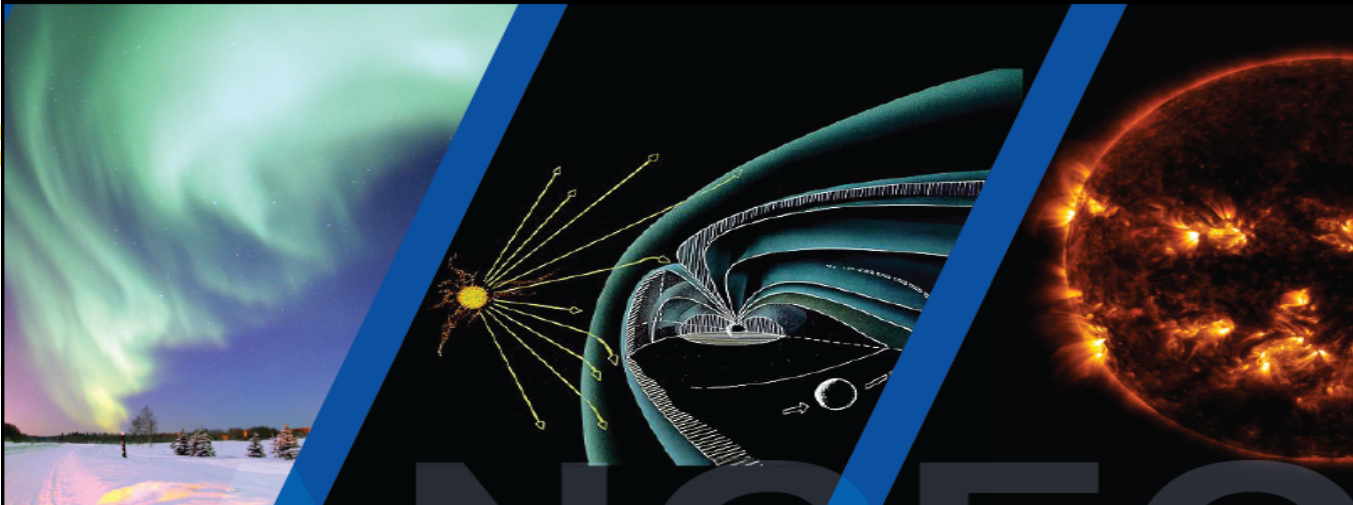
## Education & Public Outreach

The Solar-Terrestrial (ST) Sciences section embraces all regions of the Earth's atmosphere, ionosphere and magnetosphere that are under the influence of the physical conditions in the Sun (its interior and atmosphere), the solar wind (SW) and the galactic cosmic rays (GCRs), covering all aspects of solar and heliospheric physics from solar eruptive events such as solar flares and coronal mass ejections (CMEs) to the manifestations recorded *in situ* by an armada of spacecraft in the near-Earth environment and detectors on the ground (i.e. solar energetic particles – SEPs; Interplanetary CMEs – ICMEs), as well as the physical processes that couples the Sun's activity to the Earth's environment responses.

Solar storms are part of this quest for the unfolding, understanding and eventually predicting of the physical and phenomenological state of our natural space environment. To this end, scientists have been observing, monitoring, analyzing and modeling in both large and small scales the building blocks of these storms, in an attempt to identify the possible impacts on biological and technological systems. This research field, commonly termed as Space Weather, has received a lot of attention in recent years, since it can in some cases affect the technology that our daily lives depend upon.

In order to develop and sustain interest in ST Sciences and with the aim to ensure nurturing of the public, investment must be made in education and public awareness activities. Therefore, in the subpages of this section several efforts (e.g. Websites, Books, Videos) are being presented and categorized based on the audience (e.g. general public, University students, Scientists) to which these are applicable. Evidently, these lists are far from complete but it is a first step. To help contribute to this effort (e.g. add more information, links) please do contact [us](#).





# Annales Geophysicae

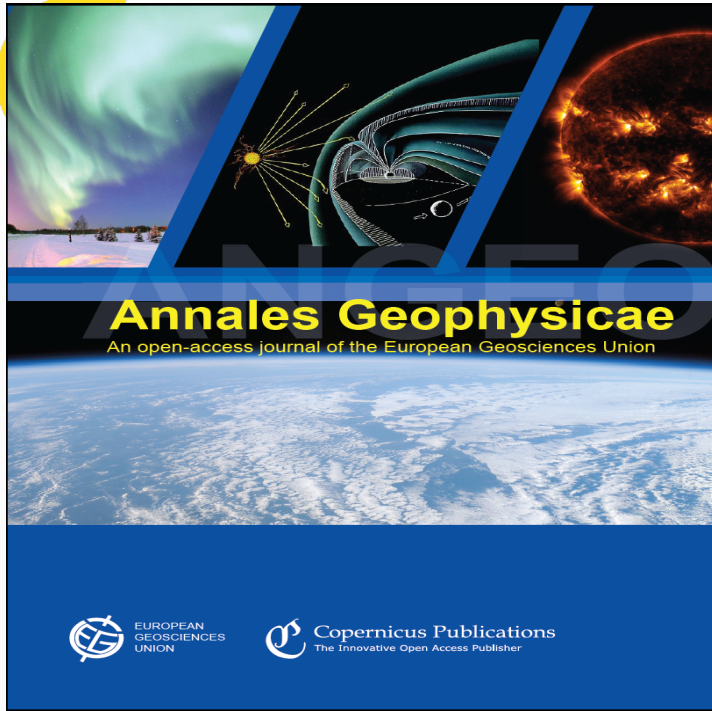
An open-access journal of the European Geosciences Union



EUROPEAN  
GEOSCIENCES  
UNION



Copernicus Publications  
The Innovative Open Access Publisher



## Annales Geophysicae Editorial Board

Editors in Chief	I. Daglis C. Jacobi	2016
Solar Corona & Heliospheric Physics	C. Scott, M. Temmer M. Haberreiter	9
Magnetosphere & Space Plasma Physics	G. Balasis, I. Daglis, C. Owen, E. Roussos, Y. Miyoshi, <b>M. Palmroth</b>	72
Ionosphere and Aeronomy	K. Hosokawa, H. Kil, S. Milan	74
Middle & Upper Atmosphere	C. Jacobi, A. Kavanagh	29
Lower Atmosphere & Climate	V. Kotroni, M.	
Salzmann	29	
	8 guest editors	
		213

**ANGEO impact factor (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)



## Special issues

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

### 2017

- [The Earth's magnetic field: measurements, data, and applications from ground observations \(ANGEO/GI inter-journal SI\), 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

### 2015

- [Dynamic processes in geospace, 2015](#)  
Eds. I. A. Daglis, C.-P. Escoubet, B. Mauk, and G. Balasis

### 2014

- [Observation, analysis and modelling of solar and heliospheric processes, 2014](#)  
Eds. M. Temmer, C. Scott, V. Fedun, L. Ofman, and J. Wild

## Papers received in 2016 and 2015

	2016 papers	2015 papers
<b>Total</b>	<b>213   +6%</b>	201
Regular Papers	183 (85.9%)   -1.1%	185
Special Issue Papers	30 (14.1%)   +87.5%	16

## Papers published in 2016 and 2015

ANGEO				
	2016		2015	
	Papers	Pages	Papers	Pages
<b>Total</b>	<b>106 (-22.6%)</b>	<b>1204 (-17.5%)</b>	137	1460
Regular papers	100	1135	117	1210
Special issue papers	6	69	20	250

Acceptance rate 59.6%



## Papers submitted

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

## Some reasons for decreasing numbers

Move to open access system

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

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

## Plans

Open Annales to Planetary Science

Already approved by PS Division

Will become active this year

Change to 2-stage under discussion

## Annales Geophysicae Editorial Board

Editors in Chief

I. Daglis  
C. Jacobi

Subject

Topical Editors

bold: appointed since EGU 2015

Papers  
submitted  
2015

Solar Corona & Heliospheric Physics C. Scott, M. Temmer  
**M. Haberreiter**

5

Magnetosphere & Space Plasma Physics  
74

G. Balasis, I. Daglis, C. Owen,

E. Roussos, **Y. Miyoshi**

Ionosphere and Aeronomy

K. Hosokawa, H. Kil, S. Milan 62

Middle & Upper Atmosphere

C. Jacobi, A. Kavanagh 31

Lower Atmosphere & Climate

V. Kotroni, **M. Salzmann** 29

201

# 9. 2015 GA/ST Scientific Programme



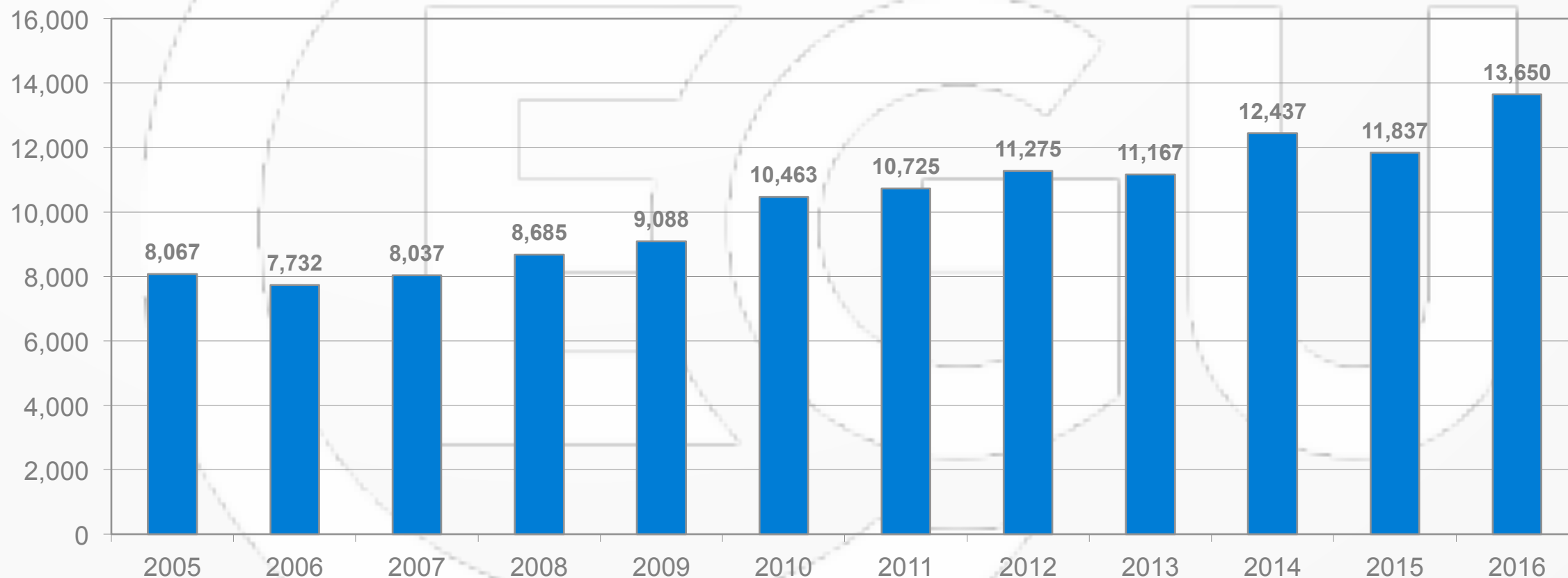
# European Geosciences Union General Assembly 2016

Vienna | Austria | 17–22 April 2016

EGU.eu



## Participants at EGU General Assemblies 2005–2016





## EGU General Assembly 2017 facts

As of 19 April (17:01), the Assembly 2017 provides:

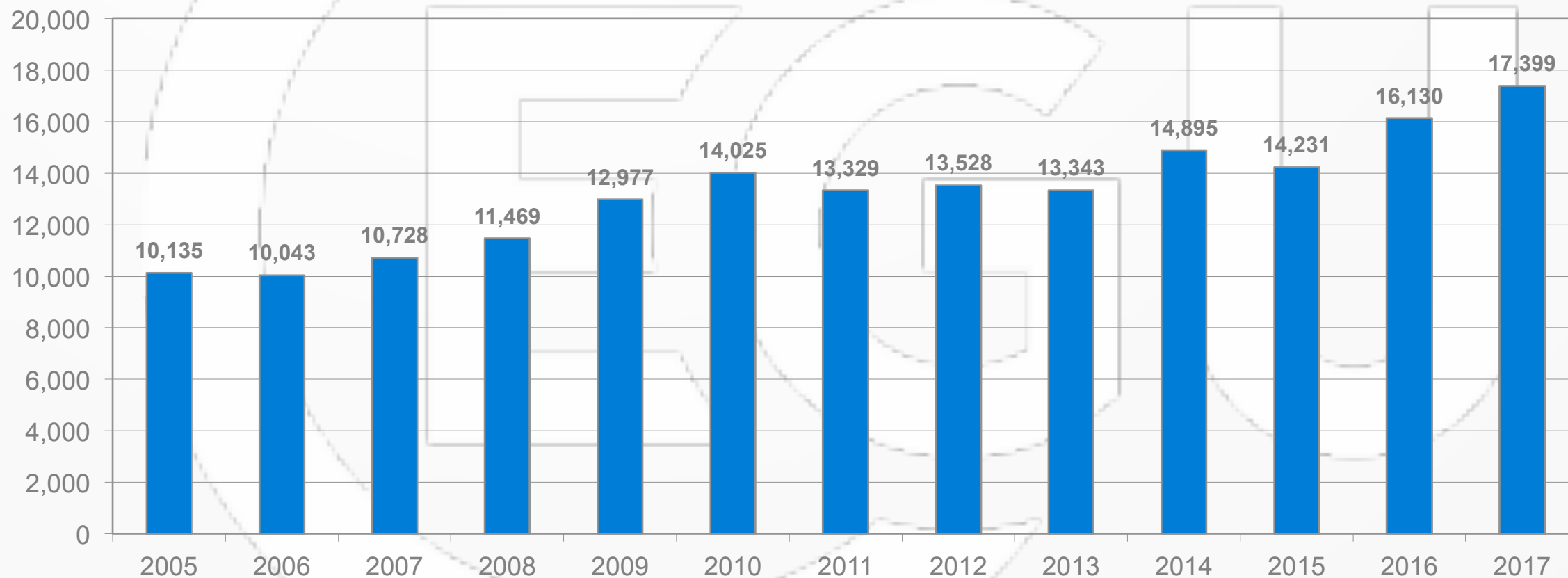
- 17,399 papers in programme | +7.87% (2016)
- 4,849 orals | 11,312 posters | 1,238 PICOs | ratio 28 / 65 / 7
- 11,331 registrations in advance | +3.55% (2016)
- 649 unique scientific sessions | 88 short courses | 322 side events\*
- 383 out of 649 scientific sessions are co-organized (59%)
- The 383 co-organized include 12 IE sessions with 261 presentations
- Original sessions: 1,432; 1,059 still active, 373 withdrawn
- Withdrawn: 356 scientific sessions and 17 side events

\*Side events include: SSE (w/o US), OEM (w/o EOS), STM (w/o SC), FAN, AM



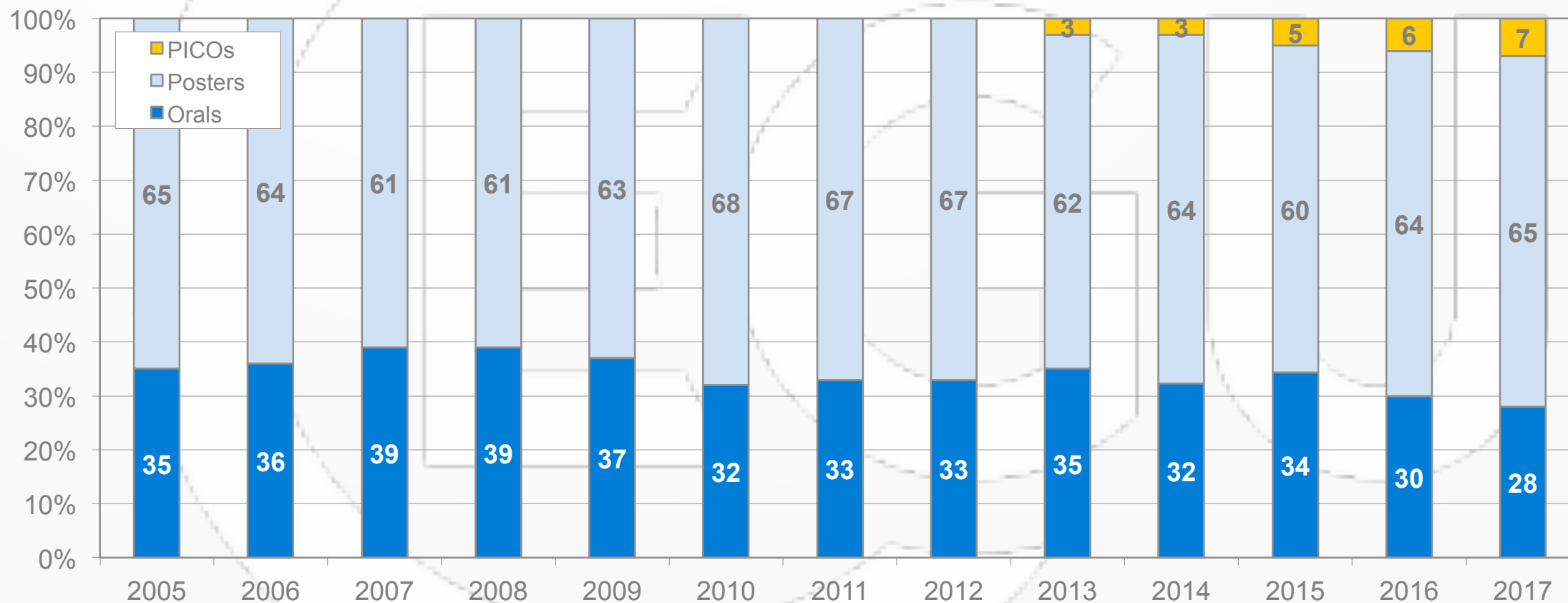
## Papers in programme 2005–2017

17'399





## Presentation ratio 2005–2017



# EGU ST 2017 Statistics - Abstracts

**Total: 538 abstracts** [2016: 538 abstracts] **-10% (last year +57%)**

**Oral: 305 abstracts (63 %)** [2016: 317 abstracts]

**Posters: 179 abstracts (37 %)** [2016: 249 abstracts]

**PICO ratio: 0 abstracts (0 %)** [2016: 0abstracts]

**23 ST led oral blocks spread over 17 ST lead sessions and 7 co-organized sessions  
(includes 2 ST Division Medal oral blocks, 1 Arne Richter lecture)**



# EGU ST 2017 Scheduling

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

- EGU boundary conditions on room availability
- Oral sessions only in the first four daily slots [other papers are given as posters]
- 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**

# EGU 2017 ST Ranked Support Applications

Overall 22 applications

- 4 ECSAs “Early Career Scientist’s Travel Awards” granted
- none ESTA “Established Scientist’s Travel Award”

Travel Award Officer: Thomas Blunier, CL outgoing President

## 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.egu2017.eu/egu\\_today](http://www.egu2017.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](https://twitter.com/EuroGeosciences)**) and Facebook (**European Geosciences Union**)
- Participants can ask questions & keep updated by following **#EGU17**

## Topical events

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

- **EGU Galileo Conferences**

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

- **Conferences series**

Three scheduled for 2017, possibly more in the future, presently on hold

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

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

## **Purpose of Galileo conferences:**

- Bring together up to 100 participants for a 3-5 days meeting to discuss a well-focused cutting-edge topic at the frontier of geosciences research in a stimulating environment.
- Possibility to publish a special Galileo Conference proceeding issue in one of the EGU journals

## **Support:**

- EGU is putting at disposal the conference organization tools; web hosting, abstract, programme and registration management.
- EGU provides comprehensive organisational support by organizing e.g. venue, poster boards, catering, Wi-Fi facilities, etc. Thereby the organising committee can fully focus on the scientific aspects of the conference.
- Support for Early Career Scientists (up to 5000€)
- EGU is covering a potential deficit of the event.

# 10. EGU 2018 and the Future

The background of the slide features a large, faint, light gray watermark of the EGU logo. The logo consists of a stylized 'E' and 'G' inside a circle, followed by a 'U'. The 'E' and 'G' are formed by thick, blocky lines, while the 'U' is a simple outline. The circle is also a thick outline.

## ST Medal/Award Nominations

- **Deadline 15. June, 2017!!**
- Evaluation based on scientific excellence
- Particular invitation for the nomination of female researchers
  - Hannes Alfvén Medal
  - Julius Bartels Medal
  - Outstanding Early Career Scientist Awards
    - Either a ECS Division Award or Arne Richter Award (Union Award)

## 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)



# EGU 2018 – Subprogramme Groups

ST1 – Sun and Heliosphere

ST2 – Magnetosphere

ST3 – Ionosphere and Thermosphere

ST4 – Space Weather and Space Climate (optional)

# Any Other Business

Suggestions

Questions

Comments

[egu2017.eu/feedback](http://egu2017.eu/feedback)