



## EGU 2015

## Solar-Terrestrial Sciences

## **Division Meeting**

Norma B. Crosby and Margit Haberreiter



Vienna, Austria, Tue. 14 April 2015, 12:15–13:15, Room Y5





### **AGENDA**

- 1. Awards and Medals 2015
- 2. Medal Committees
- 3. OSP 2014 Award Ceremony
- 4. The first 5-6 years of ST OSP
- 5. EGU Update
- 6. ST Division Organisation and Officers
- 7. ST Young Scientists Activities
- 8. ST Education and Public Outreach Update
- 9. ANGEO Update
- 10. 2015 GA/ST Scientific Programme
- 11. EGU 2016 and the Future





## 1. Awards and Medals 2015







## 2015 Jean Dominique Cassini Medal

## Jonathan I. Lunine

The 2015 Jean Dominique Cassini Medal & Honorary Membership is awarded to Jonathan I. Lunine for his key discoveries and his seminal contributions in planetary sciences and exobiology, his leadership and instrumental participation in the design and implementation of space-exploration missions, and his pivotal role in space-science policy.

Fri, 17 Apr, 12:15–13:15 / Room Y1

"Discovering habitable environments and life in the Saturn System"





## 2015 Hannes Alfvén Medal

## Robert L. Lysak

The 2015 Hannes Alfvén Medal is awarded to Robert L. Lysak for fundamental contributions to the theory of Alfvén waves that firmly established their importance in magnetosphere-ionosphere interactions.

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

Wed, 15 Apr, 13:30–14:30 / Room Y5

"Alfvén Waves and the Aurora"





## 2015 Julius Bartels Medal

### Sami Solanki

The 2015 Julius Bartels Medal is awarded to Sami Solanki for his truly exceptional work that has provided understanding of the Sun and is of fundamental importance to studies of Earth's past global climate, present regional climates, and to space weather effects on mankind's operational systems.

ST1.1 Open Session on the Sun and Heliosphere

Thu, 16 Apr, 10:30–11:30 / Room Y5

"Variations of Solar Activity and Irradiance"





## **Awards and Medals**

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

The community is urged to come with suggestions of strong candidates!

#### At Union level:

- The Union Medals for senior scientists including the most prestigious awards made by the Union that are associated with an EGU Honorary Membership
- The Union Awards including the Arne Richter Outstanding Young Scientists Awards

#### At Division level:

- The Division Outstanding Young Scientists Awards
- The Division medals for mid-career scientists.





## 2. Medal Committees







## Julius Bartels Medal Committee 2016

#### Julius Bartels (current committee):

Karl-Heinz Glaßmeier [CHAIR] Eigil Friis-Christensen Mark Lester Rumi Nakamura

#### **Proposed 2016 committee:**

Karl-Heinz Glaßmeier [CHAIR, OUT]
Hermann Lühr [CHAIR, IN]
Eigil Friis-Christensen [OUT]
Mark Lester
Rumi Nakamura
Yuri Shprits [IN]





## Hannes Alfvén Medal Committee 2016

#### Hannes Alfvén (current committee):

Sandra Chapman [CHAIR] Mike Lockwood Göran Marklund Loukas Vlahos

#### **Proposed 2016 committee:**

Sandra Chapman [CHAIR] Mike Lockwood [OUT] Göran Marklund Loukas Vlahos Sami Solanki [IN]





## 3. OSP 2014 Award Ceremony







## ST 2014 Outstanding Student Poster Award

#### Lauren Blum

"Rapid MeV electron precipitation and its contribution to radiation belt losses"

abstract N° EGU2014-488 in session ST2.4/PS5.4

By Lauren Blum and Xinlin Li





## ST 2014 Outstanding Student Poster Award

## Michael von Papen

"Evaluation of reduced power spectra from threedimensional k-space"

abstract N° EGU2014-4078 in session ST4.2

By Michael von Papen and Joachim Saur





## ST 2014 Outstanding Student Poster Award

## Paweł Swaczyna

"Fluxes of energetic neutral helium atoms from the heliosheath and the IBEX Ribbon"

abstract N° EGU2014-223 in session ST1.1

By Pawel Swaczyna, Stan Grzedzielski, and Maciej Bzowski





## 4. The first 5-6 years of ST OSP

by Claire Foullon







# The first 5-6 years of ST OSP (formerly YSOPP)

"to further improve the overall quality of poster presentations and most importantly, to foster the excitement of younger colleagues in presenting their work in form of a poster."

#### **Coordinators:**

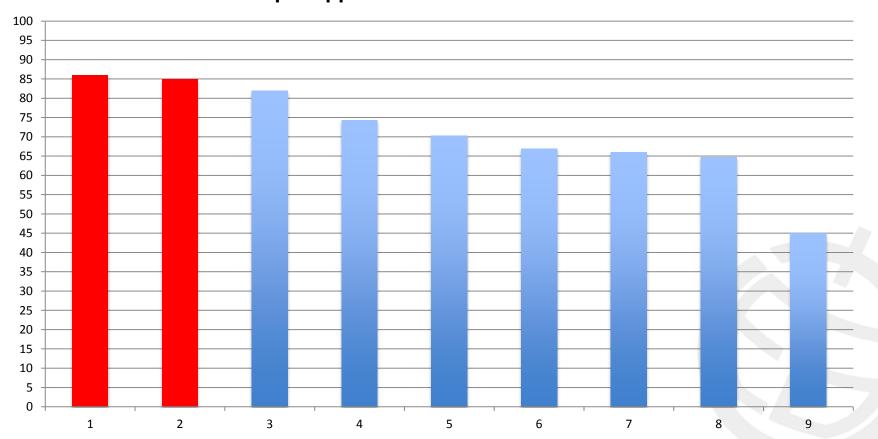
Claire Foullon (EGU 2012-2015), ST OSP Coordinator Iannis Dandouras (EGU 2010-2011), ST president until 2011





# Distribution of scores per applicant in each year since 2010 (winners in red)

#### **Total score per applicant in ST EGU 2010 YSOPP contest**



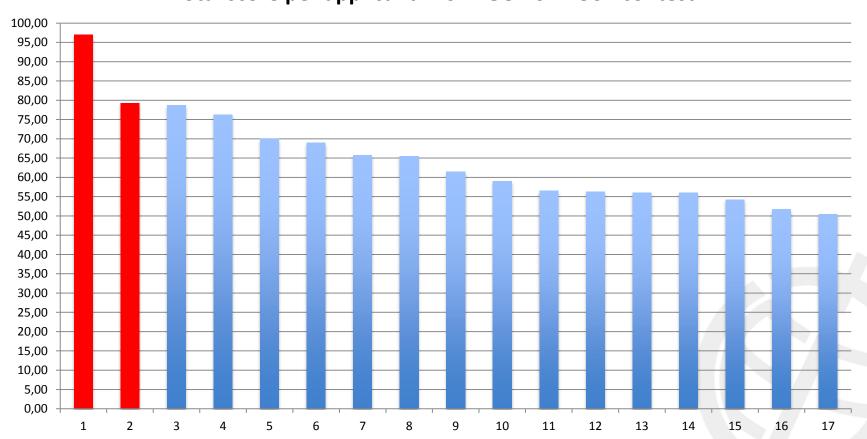






#### 2011: OSP contest started

#### **Total score per applicant in ST EGU 2011 OSP contest**

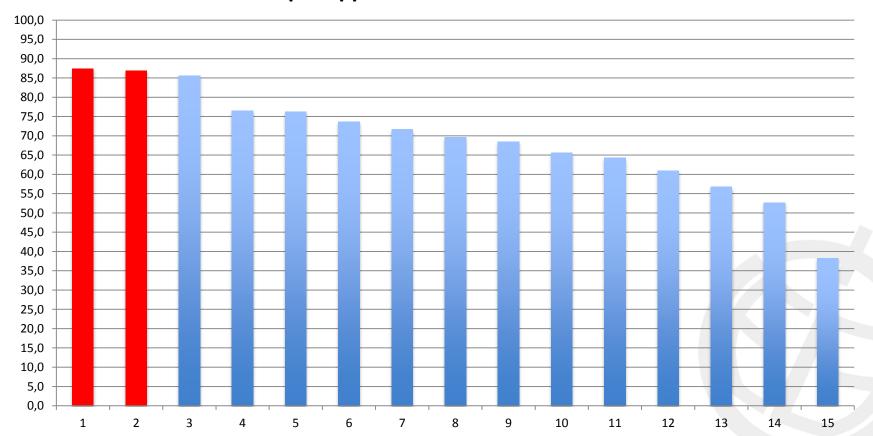






## 2011-2014: OSP organisation via email letters and paper evaluation forms

#### **Total score per applicant in ST EGU 2012 OSP contest**

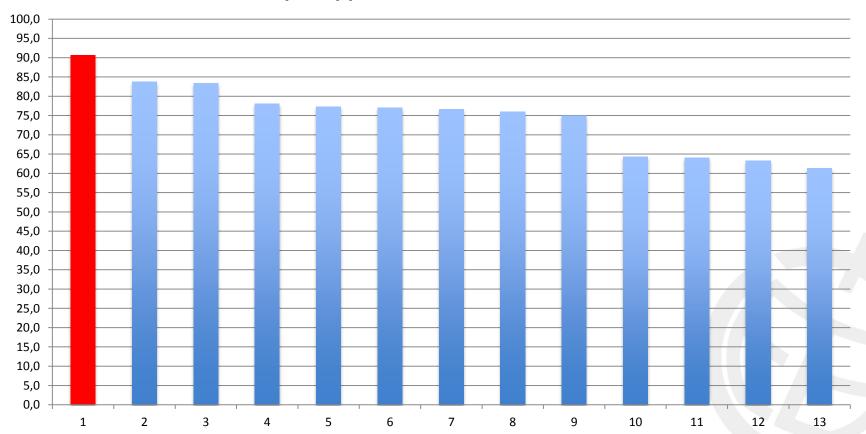






"The number of awards in each division should depend on the quality and the number of participating posters in that year".

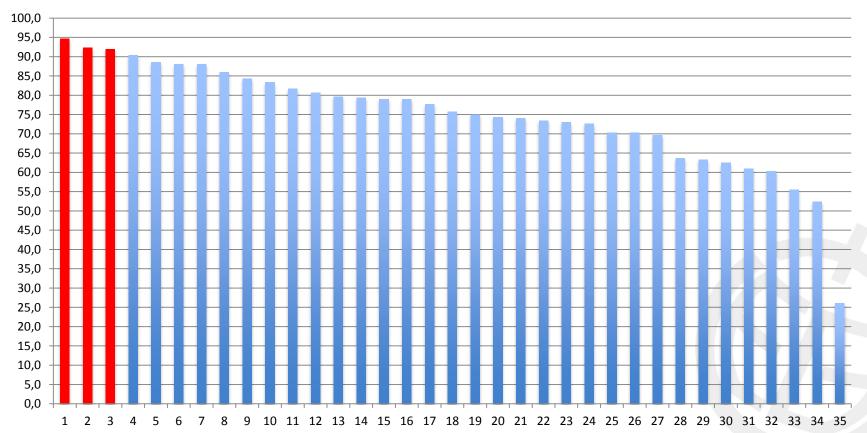
#### **Total score per applicant in ST EGU 2013 OSP contest**





In 2014 the number of posters saw a sharp increase, and the number of posters with marks above 85 -- the awarding level from previous years -- was 9.

#### **Total score per applicant in ST EGU 2014 OSP contest**







"In general, the number of awards should be small to keep the contest competitive and the award a particular distinction." 4 awards is the maximum allowed.

- The proportion of high quality posters with respect to the number of entrants is on the rise.
- 29 posters to be marked in 2015.
- Awarding level above
  - mark 92 in 2014 (35 posters, 3 awards)
  - mark 90 in 2013 (13 posters, 1 award)
  - mark 87 in 2012 (15 posters, 2 awards)
  - mark 79 in 2011 (16 posters, 2 awards)
  - mark 85 in 2010 (10 posters, 2 awards)
- 1 awardee for  $\sim$  9  $\pm$  4 posters with mark > 61.
- Comments by the judges are important.





# Thank-you to all the convenors and judges for helping with the contest

- New OSP tool this year.
- A few suggestions for improvement.
- Finding 3 judges for each poster can be difficult
   Volunteers in the database can be contacted.
- We would not normally ask for a judge to evaluate more than 3 posters - in the same session or on the same day being the most demanding on the judge's part.





## 5. EGU Update







### **EGU Executive Board**

#### **EGU President**

- Hans Thybo (President)
- Günter Blöschl (Vice-President)

#### **General Secretary**

Mioara Mandea

#### **EGU Treasurer**

- Patric Jacobs
- Roland Schlich (April 2005 yesterday)

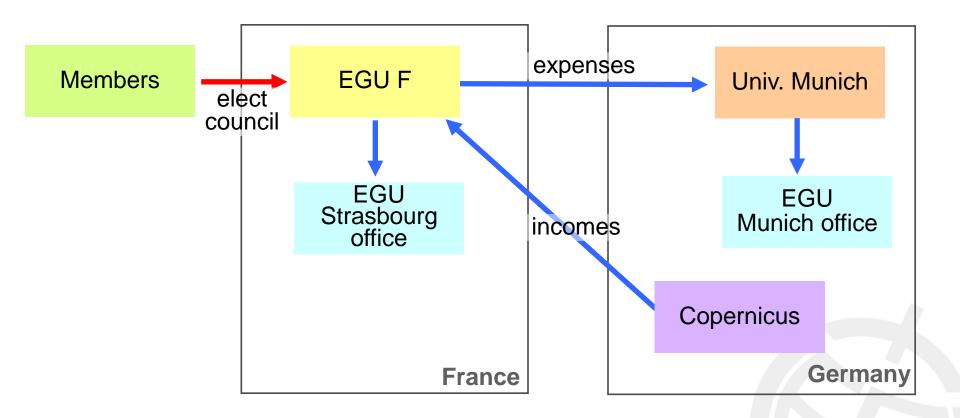
#### **Executive Secretary**

Philippe Courtial





## **Current Setup of EGU**









## **Issues with current Setup**

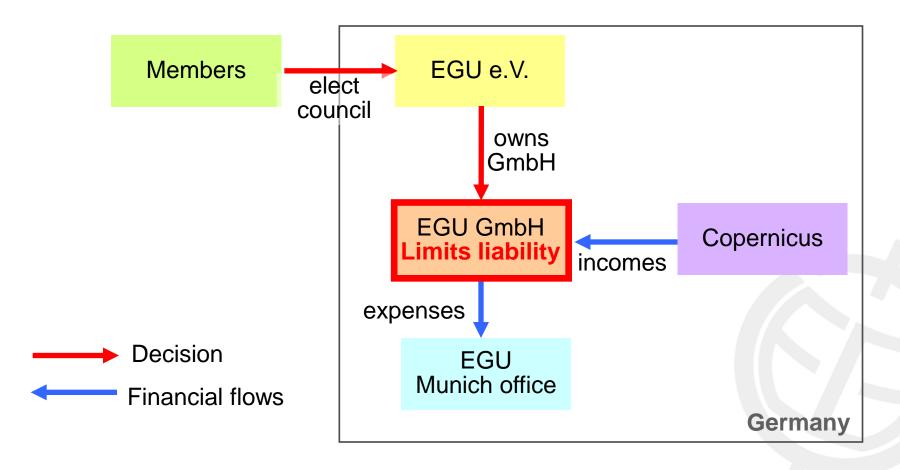
- EGU is 12 yrs old but still some **tentative** arrangements
  - EGU Council personally liable for any deficits/claims
  - office **staff hired** through Munich University
- Roland Schlich **retires** as a Treasurer → close Strasbourg office (but need office in country of registration)
- → Need consolidation to ensure sustainability of EGU (maintain quality of meetings and journals)
  - Register EGU in Germany
  - Setup Limited company (GmbH) to remove liability of council members





## Planned setup of EGU

**EGU e.V.** is a non-profit association to be registered in Munich, **EGU GmbH** will be a business company registered in Munich.







## Planned setup of EGU

7 Feb. 2015: Foundation meeting of EGU e.V.

May 2015: Registration of EGU e.V. in Germany

July 2015: Registration of EGU GmbH in Germany

Oct. 2015: Sign contract between EGU GmbH and Copernicus

(effective as of 1 Jan 2016)

Jan. 20XX: Current membership become members of EGU e.V.

20YY: Wind down EGU registered in France

- Council and Executive Board to handle setup
- Nothing will change for EGU Members



## **EGU Galileo conferences**

- Address well-focused cutting-edge topics at the frontier of geosciences research.
- 3-5 days meeting for discussion and debate for about 100 participants.
- EGU provides comprehensive organisational support allowing organizing committees to focus on the scientific aspects.
- EGU is partly sponsoring the event. Financial loss or benefit go to EGU.
- 2 stage application process on-line. "Deadline" for 1<sup>st</sup> round of applications **November 30<sup>th</sup> 2015** (submission page coming up in summer).
- Submission from September 1<sup>st</sup>, 2015





# 6. ST Division Organisation and Officers









#### **European Geosciences Union**

Division on Solar-Terrestrial Sciences

General Assembly 2015 Divisions Membership Contact Login



Solar-Terrestrial §

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#### Links

- EGU Newsletter
- EGU Blogs
- Imaggeo
- EGU TV

#### Division on Solar-Terrestrial Sciences (ST)

President: Norma B. Crosby, st@equ.eu

The ST Division considers all aspects of solar and heliospheric physics, specifically the solar-terrestrial connection. It covers the physical processes occurring on the Sun, in the solar wind, as well as in Earth's magnetosphere and ionosphere. Solar activity (e.g. coronal mass ejections, solar flares, solar energetic particle events) and the response of the near-Earth space environment to these solar phenomena are studied on a wide-range of temporal and spatial scales. Data analysis and interpretation of space-borne and ground-based data, as well as theoretical studies and different modeling techniques are used to better our understanding of how our local star defines the neighborhood that we live in.

#### Current issue of the EGU newsletter

The preparations for the <u>2015 EGU General Assembly</u> (12–17 April, Vienna), which has A Voyage Through Scales as a theme this year, continue in full swing. You can now download the conference app and prepare your personal programme, as well as register for the conference. Find out more by following the links below.

In this newsletter, you will also find information about events at the Assembly especially targeted at young scientists. If you are an early career researcher interested in getting involved with the EGU, we are looking for new young scientist representatives for the Geomorphology, Natural Hazards, Geosciences Instrumentation and Data Systems, and Earth Magnetism and Rock Physics Divisions. Contact Laura Roberts for more information.

[ Read more ]



http://www.egu.eu/st/



President	Norma B. Crosby	st@equ.eu
Programme Group Chair	Norma B. Crosby	st@equ.eu
Deputy President	Olga Malandraki	omaland@astro.noa.qr
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	Natalia Ganushkina Magnetosphere	natalia.qanushkina@fmi.fi
	Olga Malandraki Heliosphere	omaland@astro.noa.qr
	Jan Laštovička Ionosphere	jla@ufa.cas.cz
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	Sandra Chapman	s.c.chapman@warwick.ac.uk
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Media	Athanasios Papaioannou	atpapaio@astro.noa.qr
Education and Public Outreach	Athanasios Papaioannou	atpapaio@astro.noa.qr
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Foreign Affairs	Norma B. Crosby	st@equ.eu
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OSP Coordinator	Claire Foullon	c.foullon@exeter.ac.uk
Webmaster	Athanasios Papaioannou	atpapaio@astro.noa.qr
Young Scientist Representative	Beate Krøvel Humberset	beate.humberset@ift.uib.no







## ST Division Officer terms (to be approved):

- The motivation for the new rule is, in our view, to strengthen and encourage an active involvement from the overall scientific community.
- If the community agrees, this rule would start from 2016 (impact EGU2017) and would include previous years. For example if you had been Division Officer in EGU2015 and EGU2016 then EGU2017 would be your third one-year term.





# ST Division Officer terms (to be approved) – cont.:

- ST Deputy President term (one year) can be renewed at maximum four times.
- ST Science Officer term (one year) can be renewed at maximum six times.
- ST Liaison Officers term (one year) can be renewed at maximum four times.

Does the community agree?





## ST Structure and EGU principles:

- Division Presidents elected and can be re-elected only once.
  - ST President election (autumn 2014)
     Margit Haberreiter (incoming)
     Norma Crosby (outgoing)
- Division Officers are appointed at the Division Meetings.
- Programme Group Chair
   Norma Crosby (2015, Margit Haberreiter confirmed for 2016)
- Deputy President
   Olga Malandraki (2015, confirmed for 2016)





## ST Scientific Officers

- Heliosphere:
   Olga Malandraki (2015, confirmed for 2016)
- Solar Physics:
   Volker Bothmer (2015, Manuela Temmer confirmed for 2016)
- Magnetosphere:
   Natalia Ganushkina (2015, confirmed for 2016)
- Ionosphere:
   Jan Laštovička (2015, confirmed for 2016)





## ST Liaison Officers 2016

- Publications:
   Manuela Temmer (2015, confirmed for 2016)
- OSP Coordinator: Claire Foullon (2015, Cassandra Bolduc confirmed for 2016)
- Young Scientist Representative Beate Krøvel Humberset (2015, confirmed for 2016)





## ST Liaison Officers 2016 cont.

- News, Media, Education and Public Outreach, Webmaster Athanasios Papaioannou (2015, confirmed for 2016)
- Scientific Affairs, Foreign Affairs, Division Liaison
   Norma Crosby, (2015, Margit Haberreiter confirmed for 2016)





# 7. ST Young Scientists Activities

by Jone Peter Reistad

[Representing the Solar-Terrestrial Sciences YS representative at the GA]

http://www.egu.eu/young-scientists/





## **ST Young Scientists Update**

**Jone Peter Reistad** 

**Representing ST-YS Representative Beate Humberset** 

EGU General Assembly, 2015

14 April 2015





## Update on YS activity the past year – union wide

- Change definition and name of YS to Early Career Scientist (no age limit)
- Work for a YS representative in EGU Council and all committees
- Starting a mentoring scheme
- More information about open access publishing possibilities to YS
- How to better promote poster contributions?
- Make the Short Courses more attractive to YS





## YS activity in this ST division

- Organizing SC44: Meet the Experts: The Future of Solar Terrestrial Research
  - Today, 15:30-17:00, Room B4
  - Will be a post on geolog.egu.eu
- Keep contact with YS using ST-YS mailing list







## How to get involved

- Attend the YS Forum
- E-mail the ST-YS rep: <u>youngsolarterrestrial@gmail.com</u>







# 8. ST Education and Public Outreach Update

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



#### **European Geosciences Union**





#### **European Geosciences Union**

Division on Solar-Terrestrial Sciences

General Assembly 2015 Divisions Membership Contact Login



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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 guest 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.



#### **European Geos**



ISSUE 16 - December 2014



When Astronomy Gets Closer to Home: Why space weather outreach is important and how to give it impact (page 15)
Bárbara Ferreira

#### **Key Words**

Space sciences, space weather, outreach, education, communication, public engagement

#### Summary

When the public think about natural hazards, space weather is not the first thing to come to mind. Yet, though uncommon, extreme space weather events can have an economic impact similar to that of large floods or earthquakes. Although there have been efforts across various sectors of society to communicate this topic, many people are still quite confused about it, having only a limited understanding of the relevance of space weather in their daily lives. As such, it is crucial to properly communicate this topic to a variety of audiences. This article explores why we should communicate space weather research, how it can be framed for different audiences and how researchers, science communicators, policy makers and the public can raise awareness of the topic.

Download this article - PDF (188 KB)

EGU2014 Session ST6.1/EOS16/NH9.14/PS5.6 Raising and maintaining awareness of our local space weather: education and public outreach (co-organized)

 Communicating space weather to policymakers and the wider public (solicited) by Bárbara Ferreira





## 9. ANGEO Update

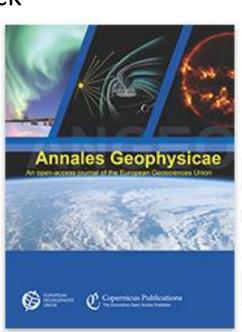
### by Christoph Jacobi

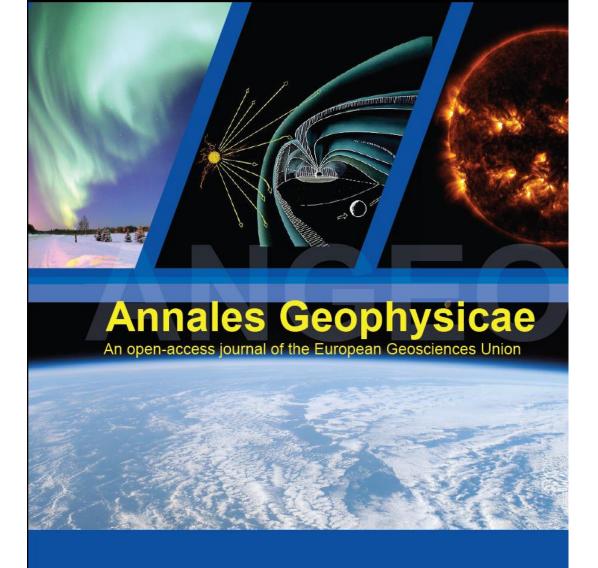
#### **Editors-in-Chief**

Ioannis A. Daglis, Christoph Jacobi & Mike Pinnock

### **Topical Editors**

- Solar corona & heliospheric physics (2)
- Magnetospheric & space plasma physics (5)
- Ionosphere & aeronomy (3)
- Middle & upper atmosphere (2)
- Lower atmosphere & climate (1)









## **Annales Geophysicae Editorial Board**

Subject	Topical Editors	Papers submitted 2014
Solar Corona & Heliospheric Physics	C. Scott, M. Temmer	12
Magnetosphere & Space Plasma Physics	G. Balasis, L. Blomberg,	
	I.A. Daglis, C. Owen, E. Roussos	72
Ionosphere and Aeronomy	K. Hosokawa, H. Kil, S. Milan	73
Middle & Upper Atmosphere	C. Jacobi, A. Kavanagh	25
Lower Atmosphere & Climate	V. Kotroni	37

#### Papers received in 2014 and 2013

	2014 papers	2013 papers
Total	219  -19.5%	272
Regular Papers	199 (90.9%)   -11.2%	224
Special Issue Papers	20 (9.1%)   -58.3%	48

#### Papers published in 2014 and 2013

ANGEO						
	2014		2013			
	Papers	Pages	Papers	Pages		
Total	127 (-30.6%)	1476 (-31%)	183	2139		
Regular papers	108	1300	152	1832		
Special issue papers	19	176	31	307		

ANGEO impact factor (2013): 1.676

 $(2012;\ 1.518\ /\ 2011;\ 1.842\ /\ 2010;\ 1.620\ /\ 2009;\ 1.648\ /\ 2008;\ 1.660\ /\ 2007;$ 

1.427)

#### **Editorial Board Meeting, Wednesday, 15.4.2015, 12:15-13:15**

- 1. Review and discussion of the ANGEO journal report
- 2. Discussion and decision on whether ANGEO should become a 2-stage journal
- 3. Any other business





# 10. 2015 GA/ST Scientific Programme



#### **European Geosciences Union**



## **EGU General Assembly 2015 facts**

14,231 papers in programme as of 07 April presented last Sunday As of 17 April, 14:00, the Assembly 2015 provided:

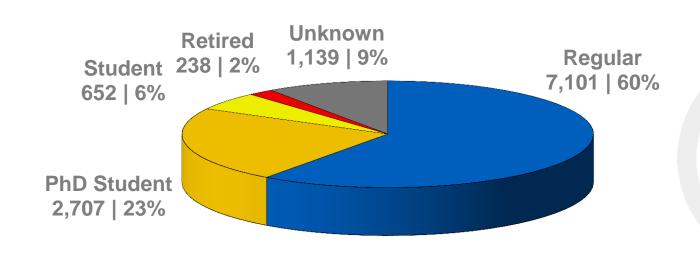
- 14,064 presentations actually given
- 4,870 orals | 8,489 posters | 705 PICOs | ratio 34.6 / 60.4 / 5.0
- 577 unique scientific sessions | 310 side events\*
- 198 out of the 577 sessions are co-organized (34%)





## **EGU General Assembly 2015 registrations**

- 11,837 participants from 108 countries | 11,638 badges printed
- 7,101 regular (60%) | 2,707 PhD students (23%) | 238 retired (2%)
- 652 students (6%) | 1,139 unspecified (9%)
- 10,862 paid (92%) | 975 free (8%)
- 9,358 pre-registrations (79%) | 2,479 on-site (21%)

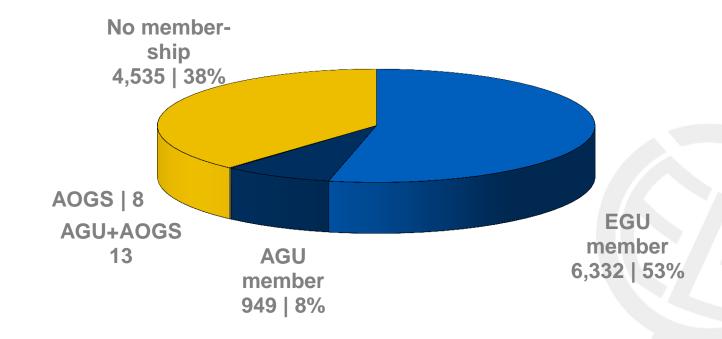






## **EGU General Assembly 2015 memberships**

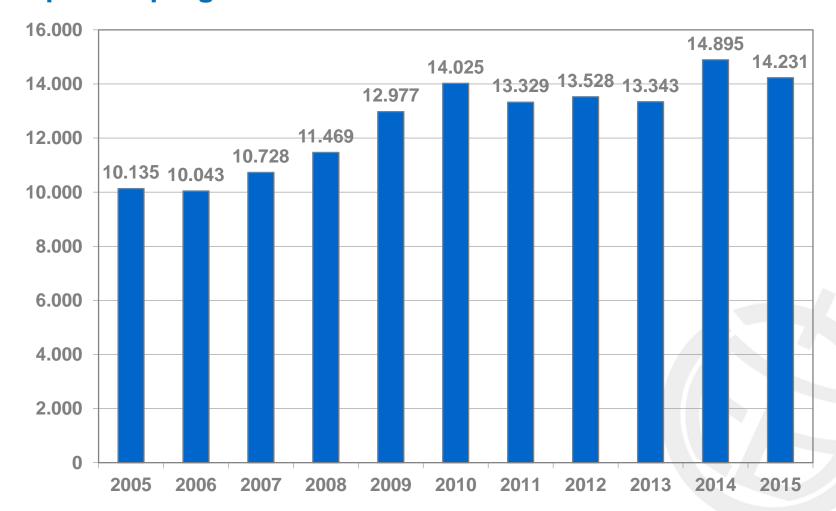
- 6,332 as EGU members (53%) | 949 AGU (8%) | 4,535 none (38%)
- also 8 as AOGS members | 13 as AGU + AOGS members
- From EGU members: 780 also AGU | 17 AOGS | 19 AGU + AOGS







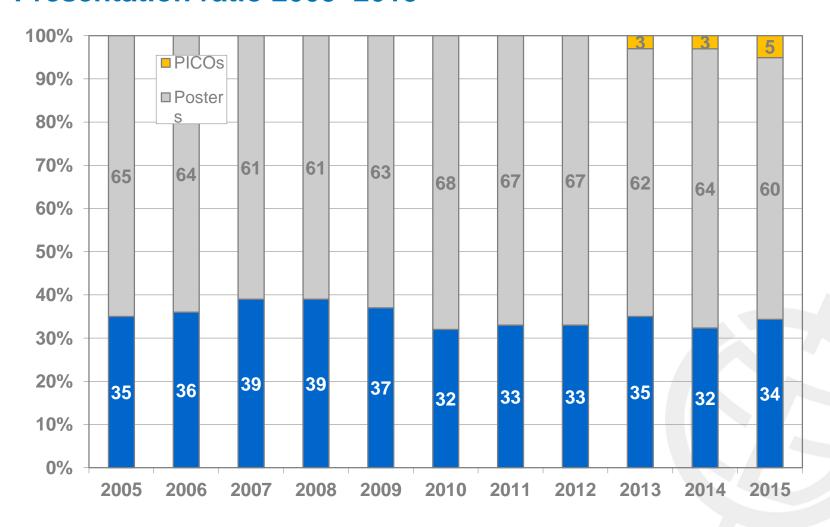
## Papers in programme 2005–2015







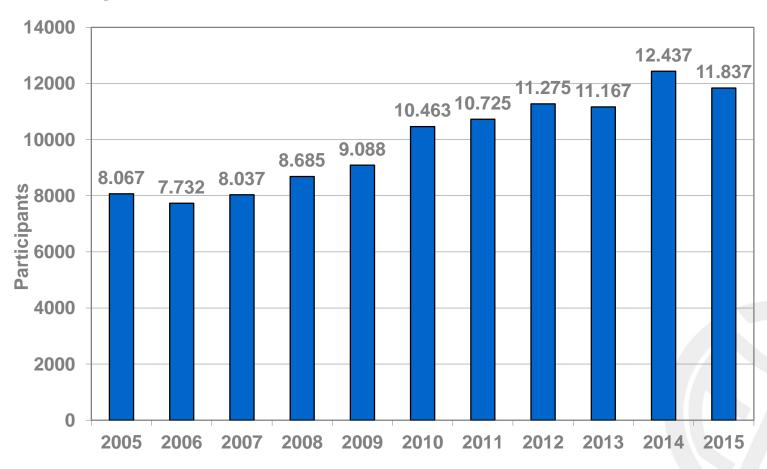
#### Presentation ratio 2005–2015







## Participants at EGU Assemblies 2005–2015







## **EGU ST 2015 Statistics**

**Oral: 144 abstracts (35%)** 

[2014: 169 abstracts; 2013: 168 abstracts]

Posters: 249 abstracts (61%)

[2014: 338 abstracts; 2013: 320 abstracts]

PICO ratio: 18 abstracts (4%)

[2014: 0 abstracts; 2013: 6 abstracts]

13 ST led sessions spread over 21 oral blocks (includes 2 ST Division Medal oral blocks)





## EGU ST 2015 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].

# 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.

Many thanks to all science secretaries and session conveners!





# EGU 2015 ST Ranked Support Applications

 6 YSTAs "Young Scientist's Travel Awards" were granted [16 applicants]

 1 ESTA "Established Scientist's Travel Award" was granted [2 applicants]

#### **European Geosciences Union**



### **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.egu2015.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 and 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 #EGU15



#### **European Geosciences Union**



## **GOODBYE**



http://www.egu.eu/newsletter/geoq/12.pdf

Next year will see a new ST President and therefore I would like to end this short report by thanking both the ST Scientific Officers, as well as the ST Liaison Officers, who have contributed enthusiastically to the ST Division during these last four years. Finally, I would like to thank all the participants that have attended ST sessions and contributed to their success: without *you* there would be no unique EGU meeting.

Norma B. Crosby ST Division President







## **WELCOME**

# Margit Haberreiter ST Division President





## 11. EGU 2016 and the Future

# Margit Haberreiter

margit.haberreiter@pmodwrc.ch





# General Assembly Feedback 2015 egu2015.eu/feedback

# EGU 2016 Meeting

17-22 April 2016, Vienna, Austria

## Call for 2016 ST Session Proposals:

- Open Sessions [Sun and Heliosphere,
   Magnetosphere, Ionosphere and Thermosphere]
- The web interface for proposing special ST sessions should open during the summer.