

# Planetary & Solar System Sciences Division Meeting

Özgür Karatekin

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2016 EGU General Assembly 2016 | Vienna | Austria  
20 April 2016



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

## AGENDA

- PS Division
- Medals/Awards
- GA 2016 & PS Program
- Publications / Autumn Elections / Meetings
- Future plans

# PS STRUCTURE

## Office 2015-2016

- President : Özgür Karatekin
- Vice President : Iannis Dandouras

## Science Officers

- *Solar System Exploration and Techniques:* David Mimoun & Kim Reh
- *Terrestrial Planets:* Ruth Ziethe & Stephanie Werner
- *Outer planets:* Athena Coustenis & Olivier Mousis
- *Small bodies and dust:* Ralf Srama & J. Keyser
- *Plasmas and magnetospheres:* Pierre Garnier & Katerina Radioti
- *Exoplanets:* Daniel Winterhalter & James Cho
- *Modelling and experimental work in Planetology:* Javier Martin-Torres & Luigi Colangeli
- *Origins and Astrobiology:* Jesus Martinez-Frias, François Raulin, Zita Martins



<b>Publications Committee</b>	Özgür Karatekin	<a href="mailto:o.karatekin@oma.be">o.karatekin@oma.be</a>
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	Loic Rossi	<a href="mailto:loic.rossi@latmos.ipsl.fr">loic.rossi@latmos.ipsl.fr</a>
<b>David Bates Medal Chair</b>	Tilman Spohn	
<b>Runcorn-Florensky Medal Chair</b>	Tilman Spohn	
<b>OSPP Coordinator</b>	Lena Noack	<a href="mailto:lena.noack@oma.be">lena.noack@oma.be</a>
<b>ECS Representative</b>	Maike Neuland	<a href="mailto:maike.neuland@space.unibe.ch">maike.neuland@space.unibe.ch</a>



# European Geosciences Union

Division on  
**Planetary and Solar System Sciences**



Ö. Karatekin (97262)

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## Division on Planetary and Solar System Sciences (PS)

**President:** Özgür Karatekin, [ps@egu.eu](mailto:ps@egu.eu)

**Deputy President:** Iannis Dandouras, [iannis.dandouras@cesr.fr](mailto:iannis.dandouras@cesr.fr)

Planetary & Solar  
System Sciences

Division



The aim of the **Planetary & Solar System Sciences Division of the EGU** is the promotion of all fields of planetary sciences, ground-based and space mission exploration of the solar system and beyond, and related models. PS covers papers on both fundamental and applied topics regarding the exploration of the Solar System. The Division, devoted to Science applications in Space, hosts interdisciplinary contributions on the origins and the evolution of the Solar System and the exoplanetary Systems, as well as ideas for future exploration while largely contributing to outreach and educational activities for all audiences.

**Find the PS division on**



## News

### PS ECS flyer

Do not miss important meetings, interesting short courses and ECS-relevant sessions at EGU! Take a look at the [PS ECS flyer 2016 \(353.7 KB\)](#)

### Presentation feedback round

After last years success, [a short course on presentation techniques](#) is organized again. EGU GA 2016 participants who are interested in rehearsing their talk and getting feedback can [sign up of for a rehearsal here](#) (deadline 31 March 2016).

More information on <http://blogs.egu.eu/divisions/g/2016/03/07/your-scientific-talk-mental-breakdown-or-conference>

Find the EGU on



Links

■ [EGU Newsletter](#)

## Outreach

### Social Media



### Videos

#### Press Conferences:

- EGU2015 - [New results from NASA's Dawn spacecraft at Ceres](#)
- EGU2015 - [Water signatures on the Martian surface](#)
- EGU2015 - [Latest results from the ESA Rosetta mission](#)
- EGU2014 - [Sights and sounds: volcanoes on Earth and Mars](#)
- EGU2014 - [Cassini and Saturn: the 10th anniversary and new results](#)
- EGU2014 - [The new face of the Moon: science and exploration](#)
- EGU2014 - [Fingerprints of life: from the early Earth to outer space](#)
- EGU2013 - [Latest results from the Curiosity Mars Rover \(PC1\)](#)

#### Lectures:

- EGU2015 - [Jean Dominique Cassini Medal Lecture](#) by Jonathan I. Lunine
- EGU2014 - [Face of the Earth Keynote Lecture: Space and the Earth](#) by James W. Head III



# PS Early Career Scientists Update

**Lena Noack – ECS Representative 2014-2016**

**Maike Neuland – ECS Representative from 2016**

EGU General Assembly, 2016

20 April 2016



Elodie Gloesener

Cédric Gillmann

Simone Ieva

Baptiste Journaux

Maxime Maurice

Christian Müller

Seda Özdemir

Benjamin Palmaerts

Loïc Rossi

Ruth-Sophie Taubner



## ECS in the PS division

ECS PS activities 2015-2016:

- Website: <http://www.egu.eu/ps>
- Twitter: EGU\_PS
- Facebook: EGUPSDivision
- Short courses and "Science Flash" for ECS at EPSC 2015
- 1-day workshop on mission proposals at ESTEC co-organized with B. Foing and AbGradE

## EGU 2016:

- Short courses for ECS
- PICO sessions from ECS for ECS



Programm 12 – 17 April, 2015	
<b>UM18: Opening Reception / YS Corner</b> Sun. 12 Apr. 18:30–21:00 / Foyer E	<b>EGU23: Meet the EGU PC Officer for Outreach to Young Scientists (Samuel Illingworth)</b> Wed. 15 Apr. 08:30–10:45 / EGU Booth
<b>Meet the EGU PS YS Representative (Lena Noack)</b> Mon. 13 Apr. 13:30–15:00 / YS Lounge	<b>ML13 - Hannes Alfvén Medal Lecture by Robert L. Lysak</b> Wed. 15 Apr. 13:30–14:30 / Room Y5
<b>SC22: Open Science, Public Engagement and Outreach: why bother?</b> Mon. 13 Apr. 17:30–19:00 / Room B1	<b>SC19/TS10.1: How to write a successful ERC Starting Grant proposal in the field of Tectonics and Structural Geology</b> Wed. 15 Apr. 15:30–17:00 / Room B4
<b>SC33: Oral presentation feedback round</b> Tue. 14 Apr. 08:30–10:00 / Room B4	<b>SC39: Finding Funding: how to apply for a research grant</b> Wed. 15 Apr. 17:30–19:00 / Room B13
<b>OM2: EGU Young Scientists Forum</b> Tue. 14 Apr. 12:15–13:15 / Room G8	<b>SC31: Your Career 2: Job Applications and Interviews</b> Wed. 15 Apr. 17:30–19:00 / Room R4
<b>SC27: Public Engagement and Outreach - Science Communication, Case Studies</b> Tue. 14 Apr. 12:15–13:15 / Room B4	<b>SC24: Open Science goes Geo - Part II: Scientific Software</b> Wed. 15 Apr. 17:30–19:00 / Room B1
<b>PS9.1/GD3.6/GM10.2/GMPV7.11/TS8.6: Processes in the Solar and Other Planetary Systems - Comparative Planetarylogy</b> Tue. 14 Apr. 15:30–17:00 / PICO Spot 2	<b>DM17: Division Meeting for Planetary and Solar System Sciences (PS)</b> Thu. 16 Apr. 12:15–13:15 / Room Y5
<b>SC44: Meet the Experts - The Future of Solar-Terrestrial Research</b> Tue. 14 Apr. 15:30–17:00 / Room B4	<b>PS1.4/GI2.12: Instrument Design and Development</b> Thu. 16 Apr. 15:30–17:00 / PICO Spot 1
<b>SC23: Open Science goes Geo - Part I: Research Data</b> Tue. 14 Apr. 17:30–19:00 / Room B1	<b>SC25: Open Science goes Geo - Part III: Beyond Data and Software</b> Thu. 16 Apr. 17:30–19:00 / Room B5
<b>SC30: Your Career 1: Adding Value to your Research Experience</b> Tue. 14 Apr. 17:30–20:00 / Room R4	<b>SC37: Public Engagement and Outreach - Scientists Must Film! Filmmaker Workshop</b> Thu. 16 Apr. 17:30–19:00 / Room R4
<b>Looking forward to seeing you!</b> Your PS YS Group: Cécile Gillmann, Elodie Gloessner, Malke Heudand, Lena Noack, Benjamin Palmaerts, Loïc Rossi and Ruti-Sophie Taubner	<b>SC26: Open Science goes Geo - Part IV: Winning Horizon 2020 with Open Science</b> Fri. 17 Apr. 08:30–10:00 / Room B4
	<b>ML4: Jean Dominique Cassini Medal Lecture by Jonathan I. Lunine</b> Fri. 17 Apr. 12:15–13:15 / Room Y1



## Definition of ECS

### Old definition:

- A scientist that is 35 years old\* or younger, who can be an undergraduate or postgraduate (Masters/PhD) student or who has received his or her highest degree (e.g., BSc, MSc, PhD) within the past seven years\*

### New definition:

- An Early Career Scientists (ECS) is an undergraduate or postgraduate (Masters/PhD) student or a scientist who has received his or her highest degree (BSc, MSc, or PhD) within the past seven years\*

*\* Provided parental leave fell into that period, up to one year of parental leave time  
may be added per child, where appropriate.*



## ECS : Awards at EGU

- Young Scientist's Travel Award (application deadline ~Nov 2016)
- Outstanding Student Poster and PICO Award

For a current undergraduate (e.g., BSc) or postgraduate (e.g., MSc, PhD) student or recent undergraduate or postgraduate student (conferral of degree after 1 January of the year preceding the conference) who are presenting her/his thesis work

- Division Outstanding Young Scientists Award (deadline: ~ mid-June) together with Arne Richter Award for Outstanding Young Scientists

For an undergraduate or postgraduate (Masters/PhD) student or a scientist who has received his or her highest degree (BSc, MSc, or PhD) within the past seven years\*.

\* *Provided parental leave fell into that period, up to one year of parental leave time may be added per child, where appropriate*



## ECS presentation within EGU

- EGU-wide ECS Representative 2016-2017

Lena Noack, ECS Programme Committee Representative  
Post-Doc at Royal Observatory of Belgium

- PS ECS Representative 2016-2018

Maike Neuland

PhD student at University of Bern, Switzerland

- PS ECS Team 2016-2017

Elodie Gloesener, Cédric Gillmann, Simone Ieva, Baptiste Journaux, Maxime Maurice, Christian Müller, Lena Noack, Loïc Rossi and Ruth-Sophie Taubner

Want to become a member? Contact us:

<http://www.egu.eu/ps/young-scientists>

## Future Plans

- Realisation of SECReT (Scientific Easy Creative Texting) Contest (EGU 2017)
- Participation in Joint EPS/EPSC Meeting 2016 and/or other meetings in the field “Planetary Space Science”
- Continuation of workshops and short courses for ECS at scientific meetings



PS EGU Planetary & Solar System Sciences  
Division

Gepostet von Lena Noack [?]

Seite gefällt dir · 1. Oktober 2015 ·

Congratulations to the three winners of the EPSC 2015 Science Flash competition! And a thank you to all participants for their great presentations - it was a very interesting and entertaining event!



# AWARDS

# Division Medal Committee

## **David Bates Medal**

Planetary and Solar System Sciences

(attributed every other year, rotation with Runcorn-Florensky Medal)

## **Runcorn-Florensky Medal**

Planetary and Solar System Sciences

(attributed every other year, rotation with David Bates Medal)

- Tilman Spohn (Chair)
- Francois Forget
- Hans Rickman
- Dmitriy V. Titov ( term finished)
- Sushil Atreya (new member)

APPROVAL @ DIVISION MEETING

## Time Schedule the Union and Division Awards and Medals

<b>1 January–15 June</b>	Open for submissions
<b>15 June–1 September</b>	Survey of all suggestions by the respective Award and Medal Committees. With respect to the Outstanding Young Scientists Award / Arne Richter Award for Outstanding Young Scientists, the presidents of the Union Divisions will evaluate their proposals between 15 June–30 June midnight (GMT +1), while the Council will select max. 4 candidates from all suggested by the Divisions.
<b>1–30 September</b>	Peer assessment of the nominated candidates by the Union Awards Committee.
<b>October</b>	Final approval of the candidates by the Union Council at its fall meeting.
<b>October/November</b>	Awardees and Medallists are informed to receive their award/medal at the next General Assembly of the Union.



Any person can be a candidate for only one EGU division medal and/or only one EGU Union Medal each year. An early career scientist can be a candidate for the Outstanding Young Scientist Award for one division only each year.


#### For the Division and Union medals

- **Nomination letter (1 page).** This must clearly detail why the candidate deserves this recognition, in particular focus on the candidate's scientific contributions to the field, their importance, their impact on the discipline and their implications for the future. The new views and new insights that have been stimulated by the candidate's work are particularly relevant.
- **Curriculum Vitae (2 pages).** A summary of the candidate's CV, including the candidate's name, address, history of employment, degrees, research experience, honours, and service to the community.
- **Selected bibliography (2 pages).** A list of selected publications by the candidate that best support the nomination. It should also state briefly the candidate's total number and types of publications and citations.
- **Supporting letters.** Between 3 and 5 letters of support (maximum 1 page each) should be submitted. These letters should clearly establish the nominee's recognised contribution to the field.


#### For the Outstanding Young Scientists Award / Arne Richter Award for Outstanding Young Scientists

- **Nomination letter (1/2 page)** including the division that the candidates research is most applicable to.
- **Curriculum Vitae.** A summary of the candidate's CV (1 page) including their date of birth and the date when their highest degree qualification was received.
- **Selected bibliography.** A list of selected publications by the candidate that best support the nomination (1/2 page). It should also state briefly the candidate's total number and types of publications and citations.

# EGU Office - Report of Activities - Programming of the on-line A&M nominations



The screenshot shows the EGU website's 'Awards & Medals Nominations' page. The header features the EGU logo, the text 'European Geosciences Union', and a dedication to excellence in geosciences and planetary/space sciences. A navigation bar includes links to the General Assembly 2014, Divisions, Membership, Contact, and Logout, along with a 'Division Pages' dropdown. A left sidebar contains a 'Menu' with links to Home, Member Area (including Change Password, Mailing Lists, Support Requests, Archive, Manage Applications, Organise Reviews, Awards & Medals Nominations, Forums, Council File Archive, Administration Area, and Logout), and About EGU. The main content area is titled 'Awards & Medals Nominations' and includes a 'Submit a new Nomination' link, a note about missing introductory text, and links to nomination guidelines and a checklist. A yellow box highlights that nominations are currently open and provides instructions to use the nomination form for the 2015 year, with a submission deadline of 15.06.2014. A 'Submission History' section indicates that the user has not yet submitted a nomination.

 **European Geosciences Union**  
Dedicated to the pursuit of excellence in the geosciences and the planetary and space sciences for the benefit of humanity.

Philippe Courtial (courtial) | General Assembly 2014 | Divisions | Membership | Contact | Logout | Division Pages ▾

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## Awards & Medals Nominations

### Submit a new Nomination

Intro missing

Links to [nomination guidelines](#) and [nomination checklist](#) should be included

Awards & Medals nominations are **currently open**.

Please use the [Awards & Medals nomination form](#) to propose a candidate for the year **2015** (submission deadline 15.06.2014). Please read the guidelines above carefully before submitting.

### Submission History

You have not yet submitted a nomination.

## Menu

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## Links



## Awards & Medals Nominations

Please, make sure that you read the [nomination guidelines](#) and the [nomination checklist](#) before you send your nomination.

Fill the following form and press "Send Application". Fields marked with \* are required.

All submissions are checked for conformity and you should receive an acknowledgement receipt within the next seven days. If you have any questions, please do not hesitate to [contact us](#).

### Nomination Details

**Award \***

**Name of the nominee \***

**Email of the nominee \***

**Nomination package \***

Either upload a single PDF file or a ZIP/TAR/TGZ archive containing multiple PDF documents

Keine Datei ausgewählt.

**Nominator(s)**

Name	Email
Name	Email
Name	Email
Name	Email
Name	Email
Name	Email
Name	Email

### Contact Details

**Your name \***

Philippe Courtial

**Your email \***

courtial@egu.eu

## Outstanding Student Poster (OSP) Award

- Eligible for the Outstanding Student Poster (OSP) Awards are students that:
  1. are first author and personally present the poster at the conference;
  2. are a current or recent undergraduate (e.g., BSc) or postgraduate (e.g., MSc, PhD) student presenting her/his thesis work
- Awardees get a conference waiver for the following year
- Need more participants and/or Outstanding Student PICO Award
- Need judges!
  - Registration form: click box if willing to help with judging posters
  - Evaluation forms and poster assignments online
  - Need help of each convener for judge assignments





## Jean Dominique Cassini Medal & Honorary Membership

The Jean Dominique Cassini Medal & Honorary Membership of the EGU, form one of the three equally-ranked most prestigious awards made by the Union, and they are reserved for scientists who have achieved exceptional international standing in planetary and space sciences, defined in their widest senses, for their merit and their scientific achievements.

### Michel Mayor

#### Jean Dominique Cassini Medal & Honorary Membership 2016



**The 2016 Jean Dominique Cassini Medal & Honorary Membership is awarded to Michel Mayor for his major discoveries in the field of exoplanets, both by observations and theory and through detection methods and instrument developments in this rapidly developing new domain of modern astrophysics.**


Michel Mayor, Emeritus Professor at the Astronomical Observatory of the University of Geneva, is a major figure of modern astrophysics. The research of Mayor and his team has had a unique and major impact in the field of exoplanets. The detection in 1995 of 51 Peg b, the first extrasolar planet orbiting a solar-type star, by Mayor and Didier Queloz, initiated a fantastic and rapidly developing

new domain of modern astrophysics, re-actualising fundamental questions about our origins and the place of humankind in the Universe. Today, several thousands of exoplanets are known. Mayor's contribution to the field has been far more profound than the single detection of the first exoplanet. He has been continuously working on the improvement and the diversification of detection methods for exoplanets and on their characterisation. In particular, he led the development of the HARPS (High Accuracy Radial velocity Planet Searcher) spectrograph for the European Southern Observatory (ESO), which is today, 12 years after installation, still the most precise instrument in the world for the measurement of the masses of rocky planets. Very early on, he also contributed to the measurement of the radii of exoplanets giving access, together with the masses, to the planet mean densities, a bridge towards geosciences. Mayor is also an active contributor in the research and exploration planned by current space missions by organisations such as NASA (e.g. in the Kepler telescope) or ESA (e.g. CoRoT, the Convection, Rotation and planetary Transits mission). He has been the leading figure in the development of a new domain of astrophysics, interdisciplinary in nature and opening adjacent fields as geophysics, climatology, mineralogy, and astrobiology. For all these reasons, he is a worthy recipient of the EGU Jean Dominique Cassini Medal 2016.



ML4

**Jean Dominique Cassini Medal Lecture by Michel Mayor**

Convener: Hans Thybo 

■ [Orals](#) / Thu, 21 Apr, 12:15–13:15 / Room E1

■ [Convener login](#)

## David Bates Medal

This medal has been established by the Division on Planetary & Solar System Sciences (PS) in recognition of the scientific and editorial achievements of Sir David Robert Bates, FRS. It is reserved for scientists for their exceptional contributions to planetary and solar system sciences.




**The 2016 David Bates Medal is awarded to Sushil Atreya for his contributions to the origin and evolution of planetary atmospheres and his leadership in space missions and international collaboration.**

Sushil Atreya is a professor of Atmospheric and Space Sciences at the University of Michigan and director of its Planetary Science Laboratory. His field of research is the origin and evolution of planetary and satellite atmospheres. His expertise is exceptionally broad, ranging from photochemistry to radiative transfer modelling, planetary mass spectroscopy, to the development of instrument concepts. He has played a key role in most of the planetary missions of the past decades. He has published over 200 refereed papers with over 8500 citations and has given more than 200 invited talks. A focus of his research has been the photochemistry of Titan. He has predicted  $\text{H}_2\text{CN}^+$  (carbon-protonated hydrogen cyanide) as its major ion – a prediction later confirmed by Cassini – and ammonia as the source of the thick nitrogen atmosphere, which was later confirmed by Voyager. He has modelled the methane cycle of Titan and has shown its similarity with the water cycle on Earth. For the giant planets, Atreya derived thermochemical models of their cloud structures and provided evidence for enrichment in heavy elements of Jupiter's atmosphere, which he interpreted in terms of the icy planetesimal formation model of Jupiter. For Mars, Atreya studied the photochemical stability of the Martian atmosphere, including the possible role of catalytic heterogeneous processes, modelled the electrochemistry in Martian dust devils and storms and possible implications for the formation of hydrogen peroxide and the destruction of organics at the surface of Mars. He further studied the possible sources and sinks for methane and helped with the in-situ detection of methane by the Curiosity rover team. In addition, he provided the first high-precision measurement of primordial argon isotope ratios on Mars and discussed their implication for the early history of the planet. Atreya always considered the implications of his empirical findings for the origin and evolution of the planet or the satellite he was studying. He proposed new models of the formation of Jupiter, the evolution of Titan and the early history of Mars. His two books – 'Atmospheres and Ionospheres of Outer Planets and their Satellites' and 'Origin and Evolution of Planetary and Satellites Atmospheres' (with J. B. Pollack) – have been used as reference works by generations of planetologists. In addition to his research work, Atreya has contributed in major ways to international collaboration. He has been a frequent visiting scientist in Paris and in London. He lectured in L'Aquila (Italy), Lisbon (Portugal) and Grenoble (France). For over twelve years, he has served as co-chair of sessions of the Planetary and Solar System Sciences Programme Group at the EGU General Assembly, and as a guest editor of their proceedings. For all these reasons, his very high and



★ ML12

**David Bates Medal Lecture by Sushil Atreya**

Convener: Özgür Karatekin 

■ [Orals](#) / Fri, 22 Apr, 10:30–11:30 / Room F1

■ [Convener login](#)



The Division Outstanding Young Scientist Award recognises scientific achievements in the field covered by the related Division, made by a young scientist.

## Division Outstanding Young Scientists Award 2016

### Planetary and Solar System Sciences



**The 2016 Division Outstanding Young Scientists Award is awarded to Shiyong Huang for outstanding research in the field of space physics, in particular on magnetic reconnection and plasma turbulence.**

Shiyong Huang has provided important contributions to the field of space physics in general and to magnetic reconnection and plasma turbulence studies in particular. His most significant research involved data analysis of space turbulence using the Cluster data. He has made substantial contributions to the understanding of electron acceleration and magnetic islands associated with magnetic reconnection, observations of wave properties and turbulence associated with magnetic reconnection as well as on kinetic turbulence in the solar wind and magnetosheath. His research helps to bridge the gap between the topics of turbulence and reconnection. Shiyong Huang's research, combined with his tremendous potential, make him a worthy recipient of the EGU Planetary and Solar System Sciences Division Outstanding Young Scientists Award.

In relation with its General Assemblies, the Union presents Outstanding Student Poster (OSP) Awards (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.

## Planetary and Solar System Sciences



The 2015 Outstanding Student Poster (OSP) Award is awarded to Daniel Vech for the poster entitled:

*Planetary space weather effects on the bow shock, the magnetic barrier and the ion composition boundary at Venus* (Vech, D.; Szegő, K.; Opitz, A.; Kajdic, P.; Fraenz, M.; Kallio, E.; Alho, M.).

Daniel Vech studied Earth Sciences with specialization in Geophysics and obtained his Bachelor of Science degree from the Eötvös Loránd University, Budapest, Hungary in 2014. He prepared his BSc thesis at the Wigner Research Centre for Physics, Budapest, Hungary on the effects of solar storms at Venus. Following his bachelors degree, he was accepted to the Joint European Master in Space Science and Technology (SpaceMaster program). During the first semester of the program he studied at the Julius Maximilian University of Würzburg, Germany. Currently, during the second and third semesters of the Master's course he is studying at the Luleå University of Technology, Kiruna, Sweden where he is collaborating with the Swedish Institute of Space Physics. His research focuses on the space weather effects on Venus particularly ICME/CIR passages. The presented work at EGU has been published in the Journal of Geophysical Research – Space Physics

**Planetary space weather effects on the bow shock, the magnetic barrier and the ion composition boundary at Venus**

## Outstanding Student Poster (OSP) Award 2015

### Planetary and Solar System Sciences



The 2015 Outstanding Student Poster (OSP) Award is awarded to Jamie Molaro for the poster entitled:

*Thermoelastic stresses on airless bodies and implications for rock breakdown* (Molaro, J.; Byrne, S.).

I am a PhD candidate at the University of Arizona's Lunar and Planetary Laboratory, working with Dr. Shane Byrne. This fall I will be moving to the Jet Propulsion Laboratory, where I received a NASA Postdoctoral Program Fellowship to study the role of thermally induced stresses in breaking down materials on the Moon, NEAs, comets, and other airless bodies. In general, I am interested in the role of thermomechanical and other types of weathering processes in the evolution of solid bodies at a variety of scales, from micro- to macroscopic.



### Planetary and Solar System Sciences



The 2015 Outstanding Student Poster (OSP) Award is awarded to Rachael Moore for the poster entitled:

*Morphotype disparity in the Precambrian* (Moore, R.; Reitner, J.; Braiser, M.; Donoghue, P.; Schirrmeister, B.).

Rachael Moore is now an early stage researcher in the Marie Curie initial training network ABYSS and a PhD student at the Institut de Physique du Globe de Paris under the supervision of Prof. Bénédicte Menez. The poster she presented at the EGU General Assembly, "Morphotype disparity in the Precambrian," shows results from her MSc research at the University of Bristol where she examined the microfossils found within Precambrian stromatolites supervised by Dr. Bettina Schirrmeister. Her main research interest is the deep biosphere; she is currently investigating microbial communities found within crystalline basalts and the impact these communities have on their host rocks.



### Morphotype disparity in the Precambrian

R. L. Moore<sup>1,4</sup>, J. Reitner<sup>2</sup>, M. D. Baiser<sup>3</sup>, P. C. J. Donoghue<sup>1</sup>, B. E. Schirrmeister<sup>1</sup>

<sup>1</sup> Palaeobiology, School of Earth Sciences, Life Science Building, University of Bristol, UK

<sup>2</sup> Department of Geobiology, Centre for Geosciences, Faculty of Geosciences and Geography, Georg-August-University of Göttingen, Germany

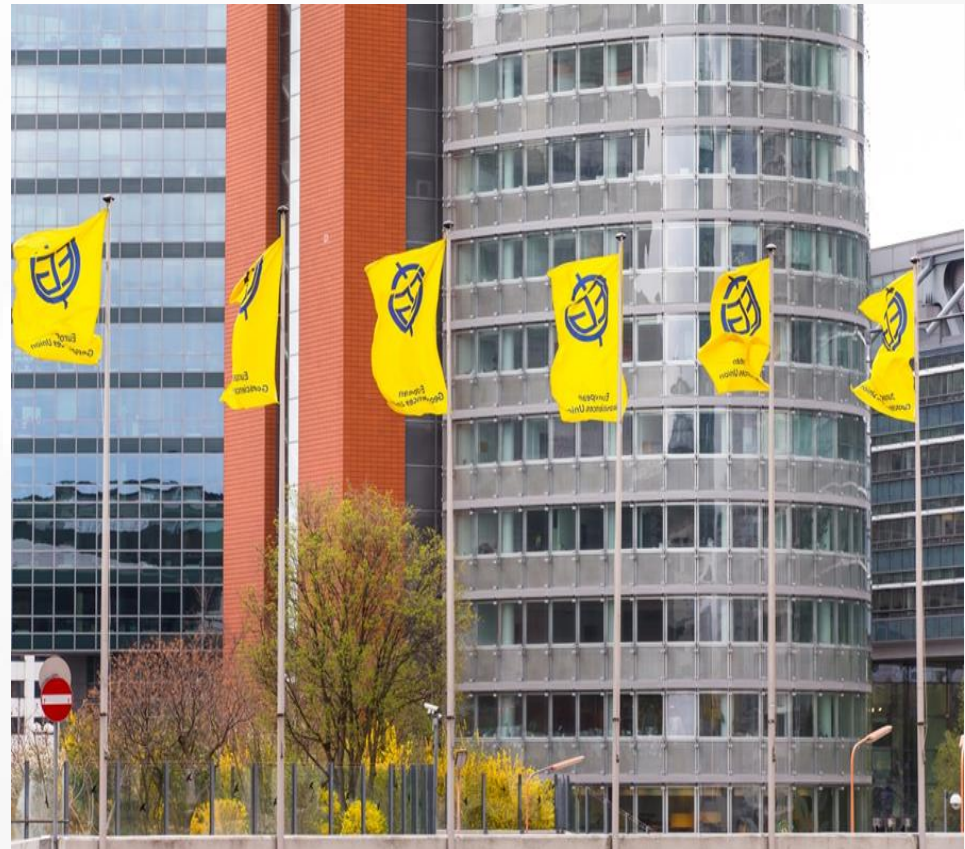
<sup>3</sup> Department of Earth Sciences, University of Oxford, UK

<sup>4</sup> Current address: Institut de Physique du Globe de Paris, France: moore@ipgp.fr

# **2016 EGU General Assembly & PS Programme**

## EGU's General Assembly 2015 at a glance

- 11,837 attendees from 108 countries in 2015
- 23% students, half of the participants were early careers
- 577 scientific sessions (198 co-organized) and 310 side events
- 4,870 oral, 8,489 poster, and 705 PICO presentations



## EGU's General Assembly 2016 at a glance

As of 14 April, the Assembly 2016 provides:

- 16,130 papers in programme | +13.34% (2015)
- 4,863 orals | 10,320 posters | 947 PICOs | ratio 30 / 64 / 6
- 619 unique scientific sessions | 321 side events\*

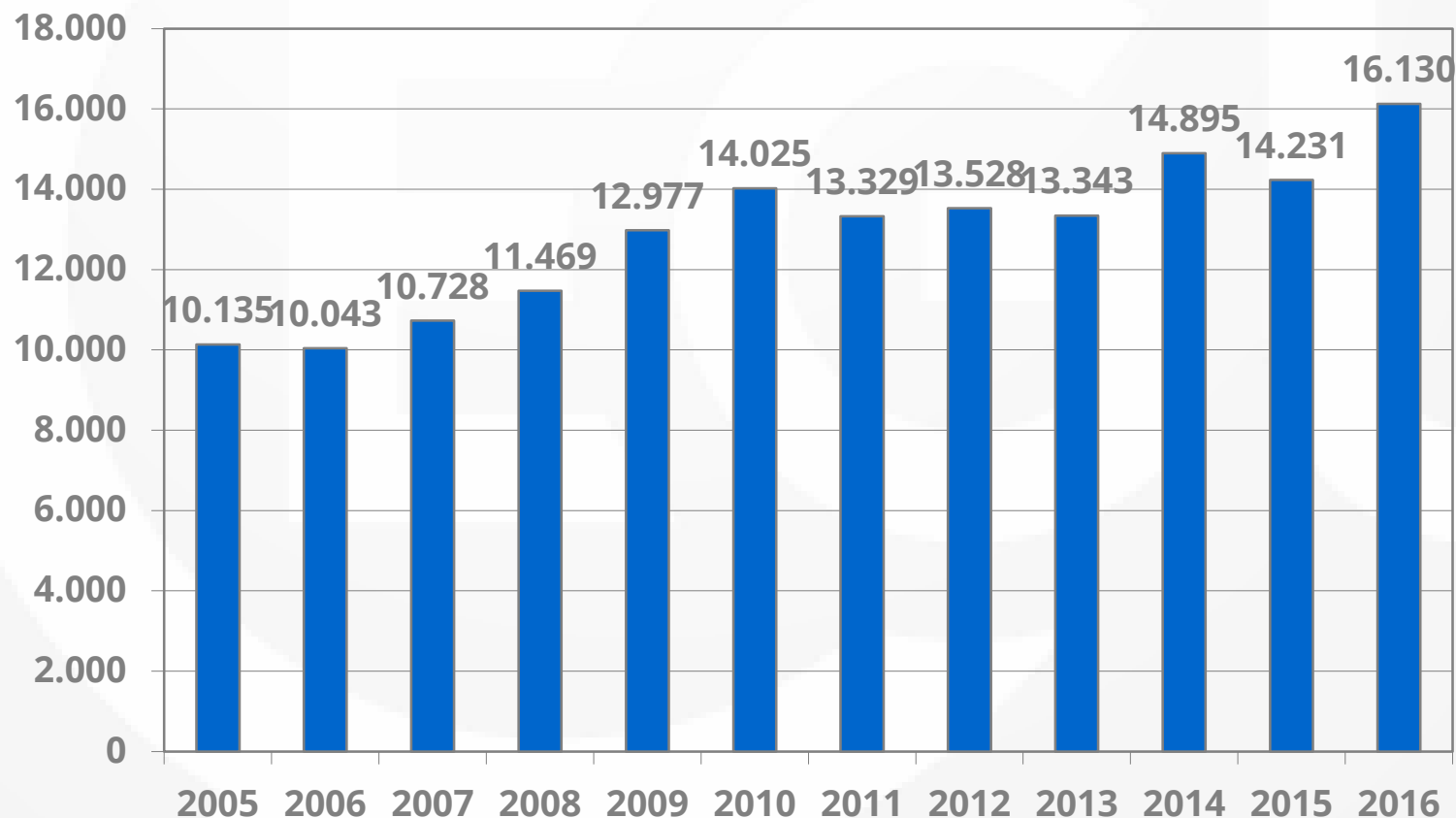


*\*Side events include: SSE (w/o US), OEM (w/o EOS), STM, FAN, AM*





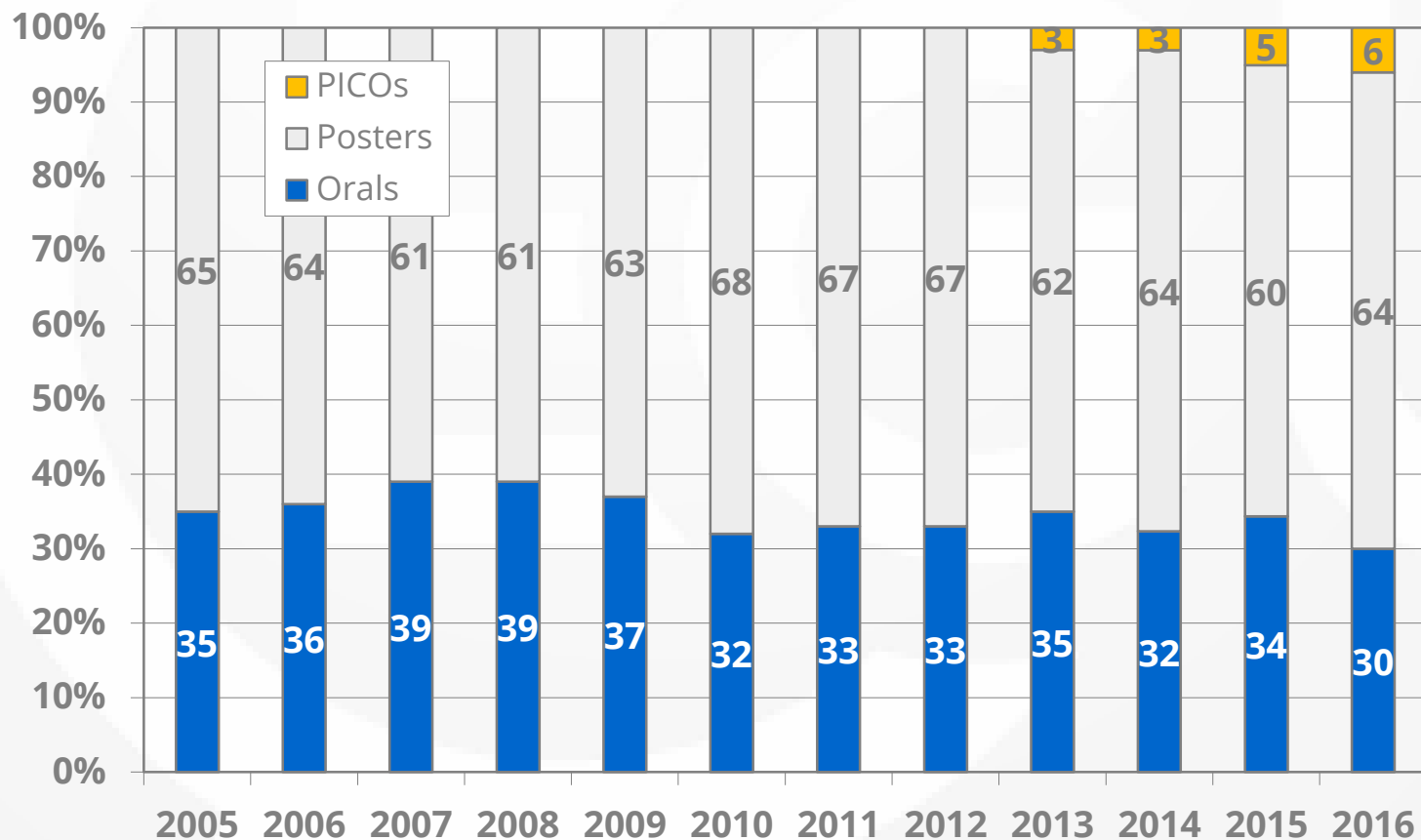
## Papers in programme 2005-2016



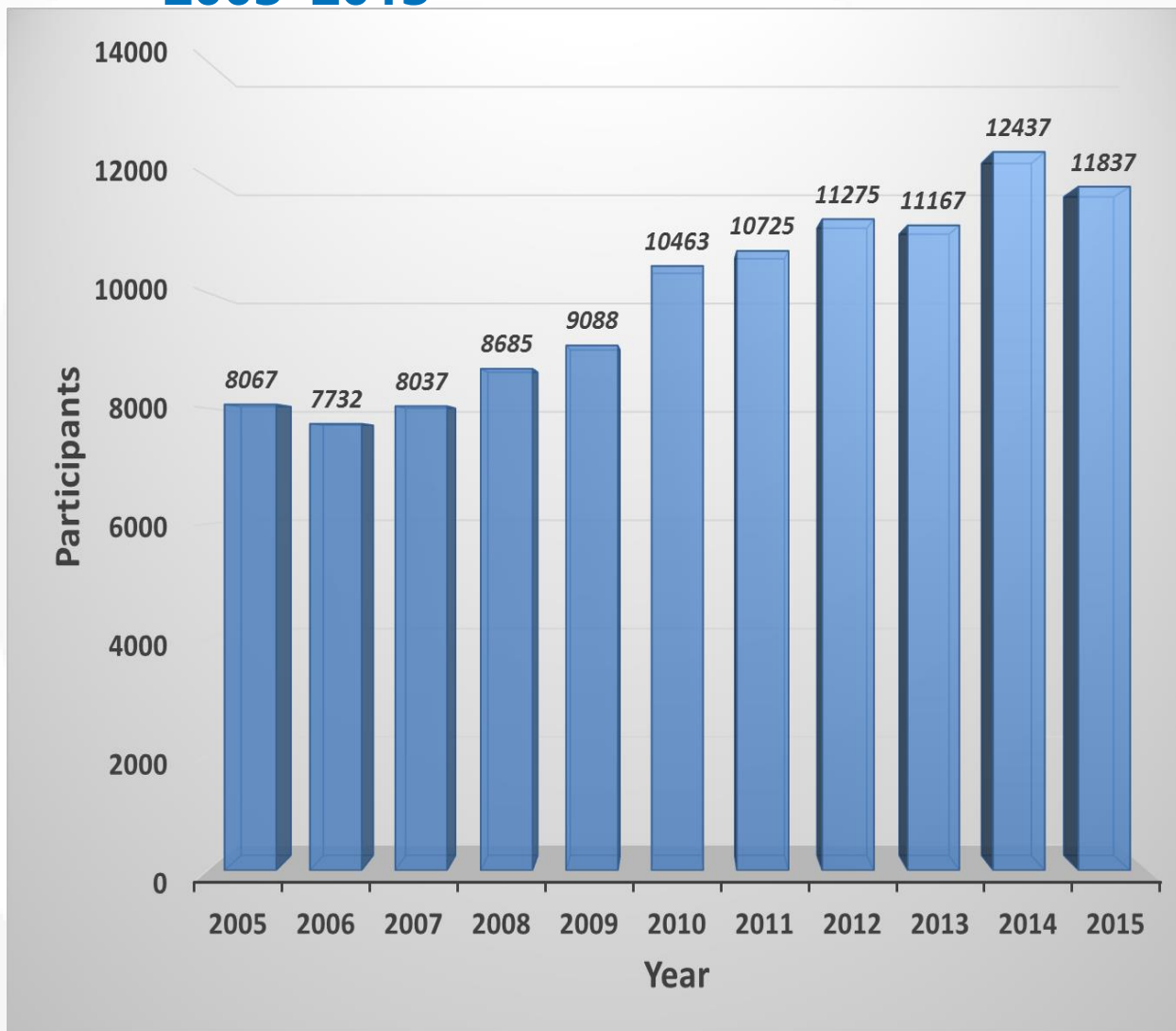




## Presentation ratio 2005-2016



## Participants at EGU Assemblies 2005–2015



# Programme Group Statistics

Scheduled	Total: 726
Status	Active: 708 (98%) Withdrawn: 18 (2%)
Granted supports	None: 790 (109%) ECSTA: 4 (1%)
Presentations	PICO: 91 (13%) Posters: 370 (51%) Orals: 265 (37%)
Author identification specifics	

■ [Show Statistics for all Programme Groups](#)

# Meeting Statistics

Scheduled	Total: 16,941
Status	Active: 16,020 (95%) Withdrawn: 921 (5%)
Granted supports	None: 15,758 (98%) ESTA: 23 (0%) ECSTA: 239 (1%)
Presentations	Orals: 4,849 (29%) PICO: 935 (6%) Posters: 10,236 (60%)
Author identification specifics	ECS: 8,399 (50%)

### Programme Group Statistics

Scheduled	Total: 535
Status	Active: 514 (96%) Withdrawn: 21 (4%)
Support Applications	None: 514 (96%)
Presentations	Orals: 227 (42%) Posters: 299 (56%) PICOs: 9 (2%)

[Show Statistics for all Programme Groups](#)

### Meeting Statistics

Scheduled	Total: 13,971
Status	Active: 13,230 (95%) Withdrawn: 741 (5%)
Support Applications	None: 12,371 (94%) AGTA: 21 (0%) KRTA: 315 (2%) YSTA: 523 (4%)
Presentations	Orals: 4,656 (33%) PICOs: 446 (3%) Posters: 8,128 (58%)

2013 GA

PS lead : 386

Total: 535

### Programme Group Statistics

Scheduled	Total: 771
Status	Active: 745 (97%) Withdrawn: 26 (3%)
Support Applications	None: 745 (97%)
Presentations	PICOs: 122 (16%) Orals: 259 (34%) Posters: 390 (51%)

[Show Statistics for all Programme Groups](#)

### Meeting Statistics

Scheduled	Total: 15,634
Status	Active: 14,851 (95%) Withdrawn: 783 (5%)
Granted Supports	None: 14,582 (98%) YSTA: 253 (2%) ESTA: 16 (0%)
Presentations	Orals: 4,815 (31%) PICOs: 960 (6%) Posters: 9,556 (61%)

2014 GA

PS lead : 419

Total: 771

### Programme Group Statistics

Scheduled	Total: 703
Status	Active: 677 (96%) Withdrawn: 26 (4%)
Granted Supports	None: 747 (106%) YSTA: 8 (1%)
Presentations	PICO: 81 (12%) Posters: 369 (52%) Orals: 253 (36%)

[Show Statistics for all Programme Groups](#)

### Meeting Statistics

Scheduled	Total: 14,749
Status	Active: 14,121 (96%) Withdrawn: 628 (4%)
Granted Supports	None: 13,869 (98%) YSTA: 226 (2%) ESTA: 26 (0%)
Presentations	Orals: 4,882 (33%) PICO: 714 (5%) Posters: 8,525 (58%)

2015 GA

PS lead : 504

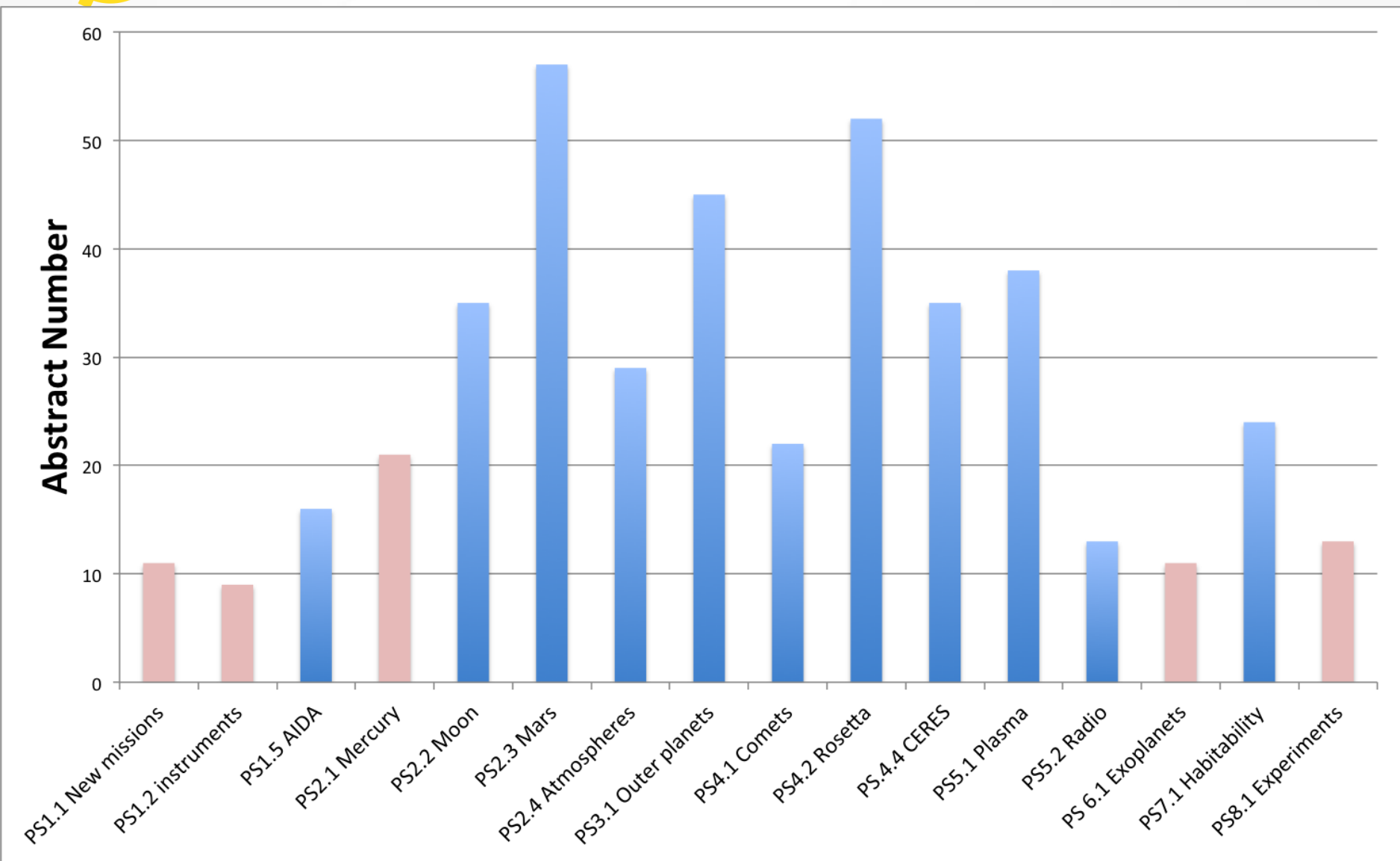
Total: 703

2016 GA

PS lead : 419

Total: 708

## # of Abstracts per PS led Session



- We tried to take account the requirements from conveners. (Back-to Backs, No overlap)
- Not possible to take all of them into account and avoid parallel session.
- Not always same sessions shall end up in Friday afternoon or Monday morning...
- We have a balance programme : GA continues also on Friday ! (We have Oral, Medal, US,..., conveners party!)

#### Time Requests and Inter-Session Relations

Requests to **AVOID** schedulings on the following days

Mon 13 Apr  
Tue 14 Apr

for the following reason:  
"No info"

##### Back-to-back Request

PS3.1 – Outer planets, icy satellites and rings

##### No-Overlap Request

PS3.1 – Outer planets, icy satellites and rings

PS4.2 – Rosetta: first results from the prime mission

##### Time request

I kindly request the following number of oral units for my Session PS3.2:  
**2** units with 15 minutes each.

#### Expectation of Participation

Based on my expectation I request a room of the following capacity for my Session PS3.2: 150 – 199



# General Assembly 2016

## Oral time block assignment

To be used for the scheduling via the PClI tool

based on statistics from  
01 Feb 2016, 10:00 CET



PG	Oral	Oral %	Poster	Poster %	PICO	PICO %	Total 2016	Total 2015	Growth	Medal+	OB 2016	R/W	R/W rounded	OB +/-
US											12	0.60	1	-8
GDB											5	0.25	0	5
TL											5	0.25	0	5
UMI											15	0.75	1	-5
SC											54	2.70	3	-6
GIFT											11	0.55	1	-9
EOS	66	37.7%	109	62.3%	0	0.0%	175	200	-13%		8	0.40	0	8
IE	273	56.2%	213	43.8%	0	0.0%	486	0			22	1.10	1	2
AS	968	58.6%	683	41.3%	1	0.1%	1652	1424	16%	1	77	3.85	4	-3
BG	564	62.6%	337	37.4%	0	0.0%	901	730	23%	1	42	2.10	2	2
CL	780	57.4%	549	40.4%	29	2.1%	1358	1193	14%	1	63	3.15	3	3
CR*	239	49.5%	215	44.5%	29	6.0%	483	346	40%		22	1.10	1	2
EMRP	137	53.7%	118	46.3%	0	0.0%	255	135	89%		12	0.60	1	-8
ERE	257	52.8%	229	47.0%	1	0.2%	487	453	8%		22	1.10	1	2
ESSI	157	66.5%	79	33.5%	0	0.0%	236	201	17%	1	12	0.60	1	-8
G	210	51.5%	181	44.4%	17	4.2%	408	333	23%		19	0.95	1	-1
GD*	206	47.7%	209	48.4%	17	3.9%	432	358	21%	1	21	1.05	1	1
GI	146	54.3%	123	45.7%	0	0.0%	269	236	14%	1	13	0.65	1	-7
GM	289	52.4%	246	44.6%	17	3.1%	552	509	8%		25	1.25	1	5
GMPV	311	55.3%	249	44.3%	2	0.4%	562	527	7%	1	27	1.35	1	7
HS*	1254	55.6%	952	42.2%	49	2.2%	2255	1899	19%		103	5.15	5	3
NH	690	55.0%	556	44.3%	8	0.6%	1254	962	30%	2	59	2.95	3	-1
NP	256	72.1%	98	27.6%	1	0.3%	355	391	-9%	1	17	0.85	1	-3
OS	279	60.7%	181	39.3%	0	0.0%	460	629	-27%	1	22	1.10	1	2
PS	254	58.7%	150	34.6%	29	6.7%	433	498	-13%	1	21	1.05	1	1
SM	255	47.5%	280	52.1%	2	0.4%	537	419	28%	1	26	1.30	1	6
SSP	290	52.3%	237	42.8%	27	4.9%	554	395	40%	1	26	1.30	1	6
SSS	797	53.6%	664	44.7%	25	1.7%	1486	1575	-6%		68	3.40	3	8
ST*	319	59.3%	219	40.7%	0	0.0%	538	343	57%	2	27	1.35	1	7
TS	373	49.1%	353	46.5%	33	4.3%	759	828	-8%	1	36	1.80	2	-4
	9370		7230		287		16887	14584		17	892	44.6	37	

Basis	
Lecture rooms	44.6
Days	5
TBs per day	4
Max TBs	892
Blocked TBs	119
Pre-allocated TBs	773
Used TBs	892
Free TBs	0

Blocked TBs	
US0/Award	2
US1-5	10
GDB1-5	5
TL	4
EOS0/TL1	1
UMI/Convener	15
SC in TB1-4	54
GIFT	11
Medal+	17
Sum	119



made on 02 Feb 2016 by the EGU PC Chair,  
EGU Executive Secretary, and Copernicus

Allocated PS rooms sizes (118, 200, 494 (Only Mo/Tu Mornings))

Room	Spec	PAX	TB allocations	Free TB	M01	M02	M03	M04	TU1	TU2	TU3	TU4	WE1	WE2	WE3	WE4	TH1	TH2	TH3	TH4	FR1	FR2	FR3	FR4
Brown Level 2 - Basement																								
-2.16		85	ED56, NP14	0	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	ED5	ED5	ED5	ED5	ED5	ED5
-2.20		159	AS6, B6, SS5B	0	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	IE	IE	IE	IE	IE	IE	AS	AS	AS	AS	AS	AS
-2.21		150	SS529	0	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5
-2.31		80	GM, SS514	0	GI	GI	GI	GI	GI	GI	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5
-2.32		111	SS520	0	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5
-2.47		86	CL14, GS, UMI1	0	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	GI	GI	GI	UMI
-2.50	SC	86	SC16, UMI4	0	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	UMI	UMI	UMI	UMI
-2.61	SC	57	SC19, UMI1	0	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	UMI
-2.85	SC	58	SC19, UMI1	0	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	UMI
-2.91		85	AS16, UMI4	0	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	UMI	UMI	UMI	UMI
G1	Union	200	GD2, GD81, OS2, TS14, UMI1	0	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	OS	OS	GD	GD	GD85	UMI
G2		200	IE3, TS16, UMI1	0	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	IE	IE	IE	UMI
X1	Union	200	GD81, GM15, PS/ST3, UMI1	0	GM	GM	GM	GM	GM	GM	GM	GM	GD82	GM	GM	GM	GM	GM	GM	GM	PS/ST	PS/ST	PS/ST	UMI
X2		200	IE5, PS/ST6, SM1, UMI1	0	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	IE	IE	IE	UMI
Yellow Level 3 - ground floor																								
0.31		130	CL26	0	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
0.49		118	PS/ST20	0	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST
0.51		30	EMRP12, G4	4	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP	EMRP
0.88		117	IE8, PS/ST12	0	IE	IE	IE	IE	IE	IE	IE	IE	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST	PS/ST
0.90	GC	30	GC20	0	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC
0.93	Theme	120	AS16, TL4	0	AS	AS	AS	AS	AS	AS	TL	TL	AS	AS	AS	AS	AS	AS	AS	TL	TL	AS	AS	AS
E1	Union	494	CL3, GD82, PS/ST5, US6	0	PS/ST	PS/ST	US6	US6	PS/ST	PS/ST	PS/ST	GD83	US1	US1	US6	US6	CL	CL	GD81	CL	CL	CL	CL	CL
E2		494	CL26	0	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
F1		494	AS18, CL2	0	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
F2		494	AS20	0	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
Green Level 1 - first floor																								
1.61		159	BG20	0	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
1.85		159	SM16, SSP4	0	SM	SM	SM	SM	SM	SM	SSP	SSP	SSP	SSP	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
L1		100	SSG, GD14, TS4	0	GD	GD	GD	GD	GD	GD	GD	GD	ESS1	ESS1	GD	GD	GD	GD	GD	GD	TS	TS	TS	TS
L2		150	CR20	0	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR
L3		289	CR2, G2, NH16	0	NH	NH	NH	NH	NH	NH	GI	GI	CR	CR	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
L4S		144	ED56, GM10, SM1	0	ED51	ED51	ED51	ED51	ED51	ED51	ED51	ED51	SM	GM	SM	GM	SM	GM	SM	GM	GM	GM	GM	GM
L6	Union	261	GMPT7, NP3, SS6, US4	0	SSP	SSP	SSP	SSP	SSP	US4	US4	NP	NP	NP	GMPTV	GMPTV	GMPTV	GMPTV	US2	US2	GMPTV	GMPTV	GMPTV	GMPTV
L7		116	GMPTV20	0	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV	GMPTV
L8		100	G4, OS16	0	G	G	G	G	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS
M1		116	BG20	0	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
M2		120	OS4, SSP16	0	OS	OS	OS	OS	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP
N1		120	NH20	0	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
N2		116	NH20	0	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
Red Level 2 - second floor																								
2.15		95	HS29	0	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS
2.17	SPM	30	SPM20	0	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
2.20		130	GS, GD4, HS8	0	HS	HS	HS	HS	G	G	G	G	G	G	G	G	HS	HS	HS	HS	GD	GD	GD	GD
2.31		95	ERE20	0	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE	ERE
2.42	SPM	30	SPM20	0	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
2.43	SPM	30	SPM20	0	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
2.44		122	HS20	0	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS
2.61		59	ESS10, HS1, NH3, SS56	0	SS5	SS5	SS5	SS5	SS5	SS5	HS	NH1	NH1	NH1	ESS1	ESS1	ESS1	ESS1	ESS1	ESS1	ESS1	ESS1	ESS1	ESS1
2.83	SPM	59	BG2, ED54, ERE2, G3, SPM8	1	BG	BG	ED51	ED51	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	ERE	ERE	ED5	ED5	G	G	G
2.95		122	HS20	0	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS
2.96	SPM	30	SPM20	0	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
2.97	SPM	30	SPM20	0	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
B	Union	670	GD81, HS14, TL1, TS2, US2	0	HS	HS	HS	GD84	TS	TS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	US1	US1	HS	HS
C		670	HS20	0	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS

Usage of TBS:

[GO](#)
[PRINT](#)

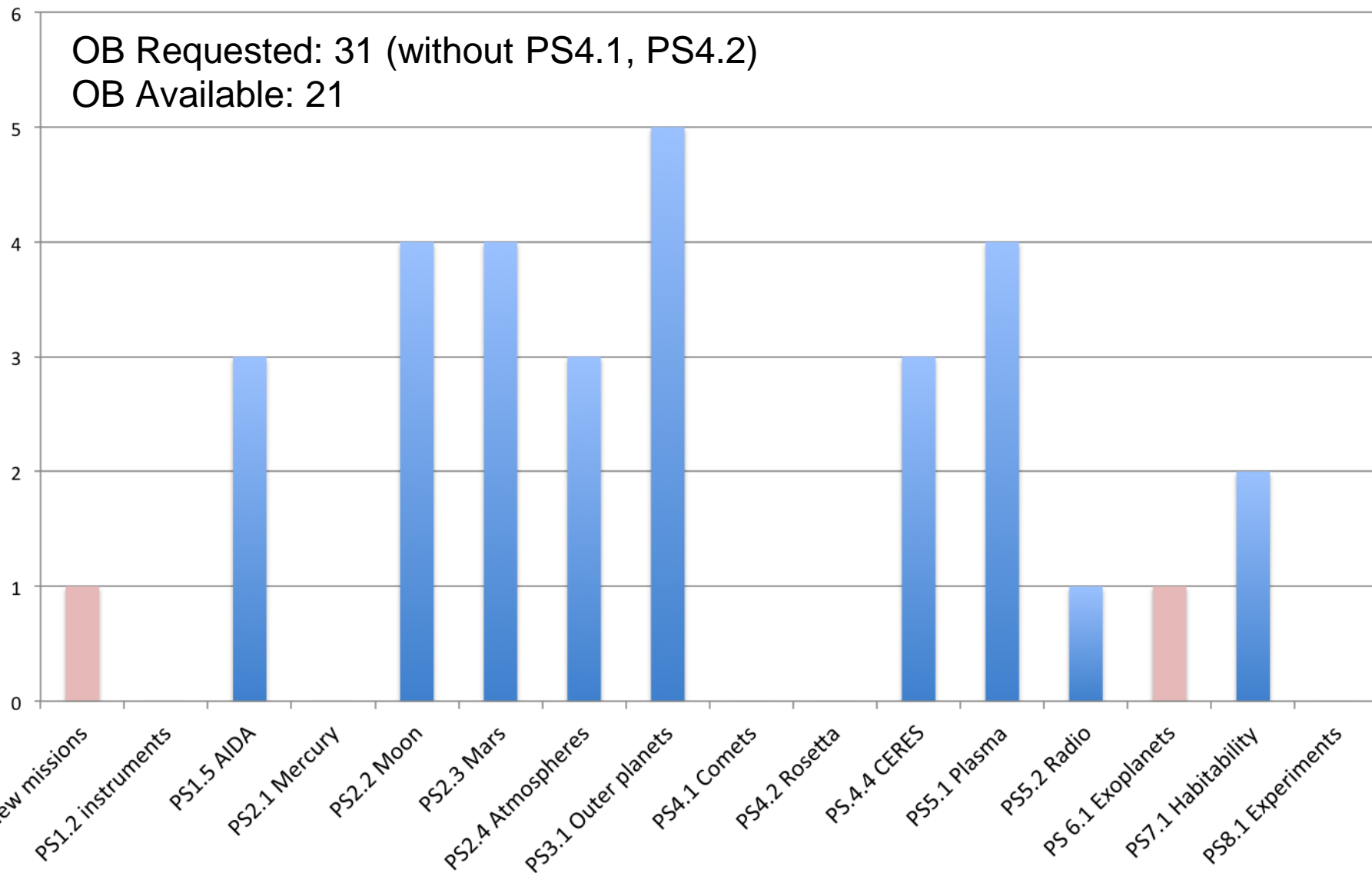
1

2

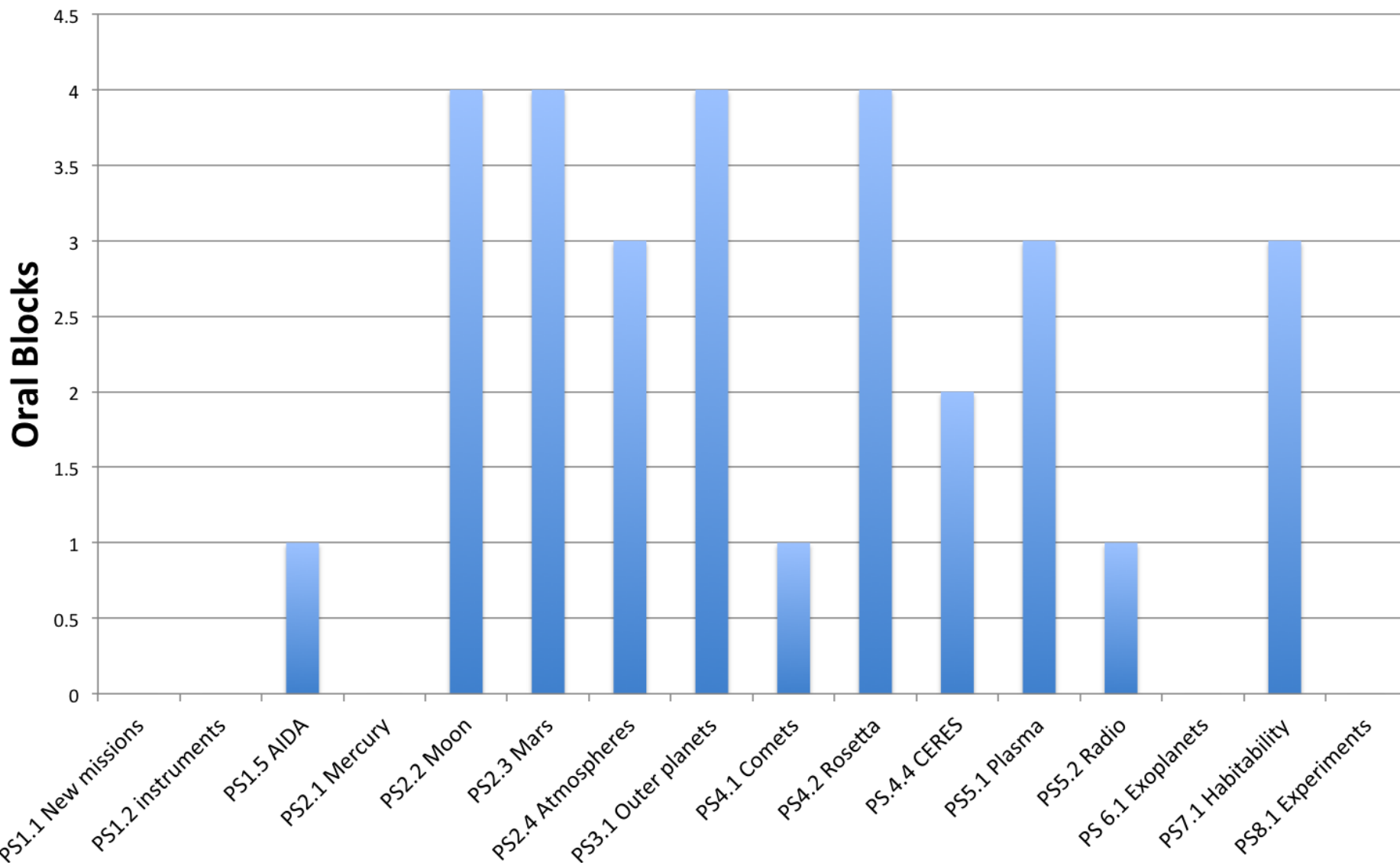
## OB Requested by Conveners

OB Requested: 31 (without PS4.1, PS4.2)  
OB Available: 21

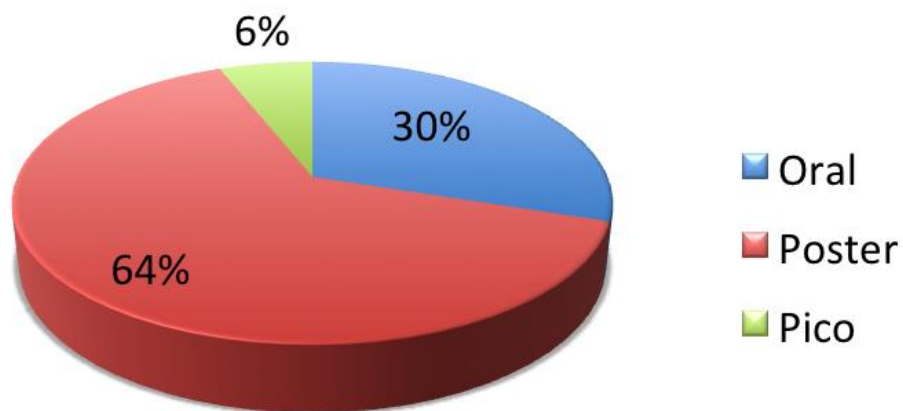
Oral Blocks



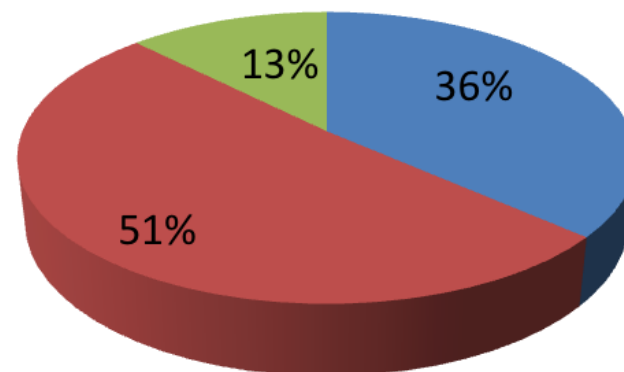
## # of OB allocated



**EGU**



**PS**



**EGU**

Oral	30%
Poster	64%
Pico	6%

**PS**

Oral	36%
Poster	51%
Pico	13%

# PROGRAMME

What is New





## NEW SESSIONS

- PS1.5 Science and Technology for the Asteroid Impact & Deflection Assessment (AIDA) mission
- PS4.4 New light at CERES
- .....Pluton in PS3.1

## US5 **Media**

### **NASA-ESA-EGU joint Union session**

Convener: Özgür Karatekin 

Co-Convener: Hans Thybo 

▣ Session details

**Monday, 18 Apr 2016**

Room: E1

13:30–13:35 **Introduction**



13:35–14:05 [EGU2016-18531](#)



**ESA's Earth Observation in Support of Geoscience** (solicited)

*Volker Liebig*

14:05–14:35 [EGU2016-18528](#)



**Looking Down on the Earth: How Satellites Have Revolutionized Our Understanding of Our Home Planet**  
(solicited)

*Michael Freilich*

14:35–15:05 [EGU2016-18529](#)



**NASA's Heliophysics System Observatory** (solicited)

*Steven Clarke*

15:30–16:00 [EGU2016-18550](#)



**Present and future Solar System missions in the framework of the ESA Science Programme** (solicited)

*Luigi Colangeli*

16:00–16:30 [EGU2016-7462](#)

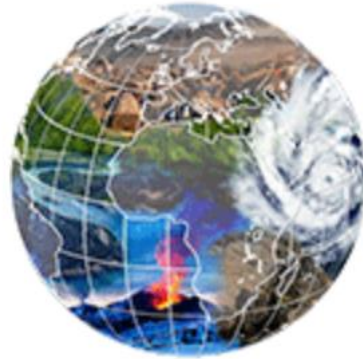


**NASA's Planetary Science Missions and Participations** (solicited)

*James Green*

16:30–16:55 **Discussion**





### Lectures on active planet

- **Antje Boetius:** The active outer shell of Earth: What remains to be explored in carbon and life interactions? ([abstract](#)), Tue, 19 Apr, 13:30–15:00 / Room 0.93
- **Cynthia Ebinger:** The Active Solid Earth ([abstract](#)), Tue, 19 Apr, 15:30–17:00 / Room 0.93
- **André Kuipers:** Living and working in Space ([abstract](#)), Wed, 20 April, 10:30–12:00 / Room B
- **François Forget:** Active other worlds in the Solar System and beyond ([abstract](#)), Thu, 21 Apr, 13:30–15:00 / Room 0.93
- **Berit Arheimer:** The active liquid Earth – importance of temporal and spatial variability ([abstract](#)), Thu, 21 Apr, 15:30–17:00 / Room 0.93

**Next year's Theme ?**

# NASA Hyperwall Science Stories

Presented by NASA Experts  
Visit Us at the NASA Booth, Ground Floor, Foyer E

Time	Presentation Title	Presenter
<b>Monday, April 18, 2016</b>		
12:15 - 12:30	Viewing Rain and Snow Around the World from Space	Dr. George Huffman
12:30 - 12:45	GRACE Observed Earth System Mass Change	Dr. Byron Tapley
12:45 - 13:00	NASA's Earth Observation Capabilities: Meeting the Challenges of Climate and Environmental Change	Dr. Michael Freilich
13:00 - 13:15	Highlights of Heliophysics	Mr. Steve Clarke
17:15 - 17:30	Recent Discoveries in Planetary Science	Dr. Jim Green
17:30 - 17:45	The Disappearing Atmosphere of Mars	Dr. David Brain
17:45 - 18:00	HighLights of Cassini Discoveries at Saturn	Dr. Linda Spilker
<b>Tuesday, April 19, 2016</b>		
12:15 - 12:30	Viewing Rain and Snow Around the World from Space	Dr. George Huffman
12:30 - 12:45	GRACE Observed Earth System Mass Change	Dr. Byron Tapley
12:45 - 13:00	HighLights of Cassini Discoveries at Saturn	Dr. Linda Spilker
13:00 - 13:15	What Do Landslides, Agricultural Forecasting and Hurricanes Have in Common: Rain! Observing How Land Slides...From Space	Dr. Dalia Kirschbaum
13:30 - 15:30 Special Session for GIFT at the NASA Hyperwall, Foyer E	From Space Observations to Earth System Science	Dr. Michael Freilich
	Our Dynamic Sun - Solar Storms and Space Weather	Mr. Steve Clarke
	"The Martian" - Science Fiction and Science Fact	Dr. Jim Green
17:15 - 17:30	NASA Sea Level Web Portal LIVE!	Dr. Carmen Boening
17:30 - 17:45	Let it Rain and Snow: Global Precipitation Measurement Satellite Observations	Dr. Gail Skofronick-Jackson
17:45 - 18:00	The Ozone Layer: What Is and What Might Have Been	Dr. Luke Oman
<b>Wednesday, April 20, 2016</b>		
12:30 - 12:45	Recent Discoveries in Planetary Science	Dr. Jim Green
12:45 - 13:00	What Do Landslides, Agricultural Forecasting and Hurricanes Have in Common: Rain! Observing How Land Slides...From Space	Dr. Dalia Kirschbaum
13:00 - 13:15	Highlights of Heliophysics	Mr. Steve Clarke
15:15 - 15:30	Recent Discoveries in Planetary Science	Dr. Jim Green
17:15 - 17:30	Highlights of Heliophysics	Mr. Steve Clarke
17:30 - 17:45	Let it Rain and Snow: Global Precipitation Measurement Satellite Observations	Dr. Gail Skofronick-Jackson
<b>Thursday, April 21, 2016</b>		
12:30 - 12:45	Viewing Rain and Snow Around the World from Space	Dr. George Huffman
12:45 - 13:00	The Ozone Layer: What Is and What Might Have Been	Dr. Luke Oman
13:00 - 13:15	Monitoring the Earth's Radiation Budget from Satellite	Dr. Paul Stackhouse
13:15 - 13:30	Recent Discoveries in Planetary Science	Dr. Jim Green
15:00 - 15:15	Monitoring the Earth's Radiation Budget from Satellite	Dr. Paul Stackhouse

# PUBLICATIONS

## **PUBLICATIONS**

Special issue for PSS from your session or combination of sessions like :

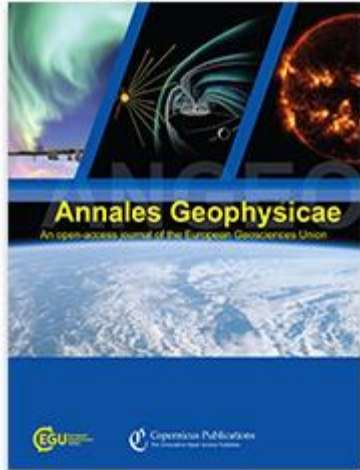
- Solar wind interaction with the terrestrial planets (P. Garnier, A. Milillo, A. Radioti)
- Outer planets systems (A. Coustenis, et al)



## EGU journals at a glance

- Open Access
- Interactive Public Peer Review
- Article Level Metrics
- Moderate Article Processing Charges
- Archiving & Indexing
- 16 peer-reviewed open-access journals, one proceedings journal
- Author's copyright and CC-BY licence for unlimited distribution & usage
- 13/16 journals are indexed by Thomson Reuters with Impact Factor
- Highest IF 6.086 (GMD)





**IF:1.709**

## Annales Geophysicae & PS

- That AnnGeo should expand its aims and scope so that it more explicitly caters for topics addressed by the PS Division of EGU. ([http://www.annales-geophysicae.net/about/aims\\_and\\_scope.html](http://www.annales-geophysicae.net/about/aims_and_scope.html))
- “Annales Geophysicae: Earth, planets, and solar system”
- Modify the current aims and scope accordingly, Add Topical Editors / Editor-in-Chief.

# **EGU Sponsored Meetings**

## EGU Galileo Conferences

The EGU Galileo conferences address well-focused cutting-edge topics at the frontier of geosciences research. The conferences are informal: the state-of-the-art is outlined in keynote presentations designed to trigger in-depth discussion of important aspects of the conference topic. EGU provides full organizational support to the EGU Galileo Conferences, thereby allowing Organizing Committees to focus on the scientific aspects of the conference.

## EGU Co-Sponsored Meetings

The EGU Meetings Programme is dedicated to the pursuit of progress in all areas of the Earth, planetary and space sciences through excellence in the organisation and running of conference series, topical meetings, workshops and training schools for the benefit of all scientists and with special attention to the needs of young researchers. Occasionally, the EGU can sponsor external meetings, helping organisers achieve financial stability, visibility, and/or access to a larger target community.

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

## 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.

## Co-Sponsored Meetings

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The EGU Meetings Programme is dedicated to the pursuit of progress in all areas of the geosciences, planetary and solar system sciences through excellence in the organisation and running of various co-sponsored meetings for the benefit of all scientists and with special attention to the needs of young researchers. These include:

- Conference series
- Topical meetings
- Workshops
- Training schools
- External meetings

Submission periods are from 1. June - 31. July and from 1. November - 31. December every year. Evaluation results are expected to be published within three months after the submission deadline.



## Recently co-sponsored meetings

### Second call for 2016

- MedCLIVAR 2016. Mediterranean Climate: Learning from the past, perceiving the present, engaging for the future, Athens, Greece
- ASTARTE, PEARL & TANDEM Joint Summer School, Chania, Greece
- Convective and volcanic clouds detection, monitoring and modeling, Tarquinia, Italy
- The biosphere-atmosphere exchange and global budget of carbonyl sulfide, Hyytiälä Forestry Field Station, Finland
- Geoscience Communication School, Castiglione del Lago, Italy
- TOPO-EUROPE Conference, Clermont Ferrand, France
- Pollen-based quantitative reconstruction of past vegetation/land cover using modelling approaches (PAGES LandCover6k), Kalmar, Sweden
- Workshop on Martian Gullies and their Earth Analogues, London, UK
- 6th International Conference on Mars Polar Science and Exploration, Reykjavik, Iceland
- Global Modeling of the space weather chain, Espoo, Finland
- MT3DINV3: The Third Workshop on 3-D Magnetotelluric Inversion, Bari, Italy

## Conference Series

To encourage cohesion and sustained dialogue within specialist research communities, the EGU hosts a number of conference series. Each series is targeted at a specific disciplinary or interdisciplinary group within the broader EGU constituency, offering conferences, typically with changing themes, at regular intervals. These conference series serve to cement and drive the evolution of established fields.

Each series has its own format and tradition, but shared characteristics include limited size, open discussion, special attention to contributions by students and early career scientists and participation by 'outsiders'. EGU conference series are developed by or in close cooperation with the Union scientific divisions.

## List of Conference Series

- Alexander von Humboldt Conferences
- Emile Argand Conferences on Alpine Geological Studies
- International Workshops on Mantle and Lithosphere Dynamics
- Leonardo Conferences on Earth's Hydrological Cycle
- Plinius Conference on Mediterranean Risks

## Conference Series

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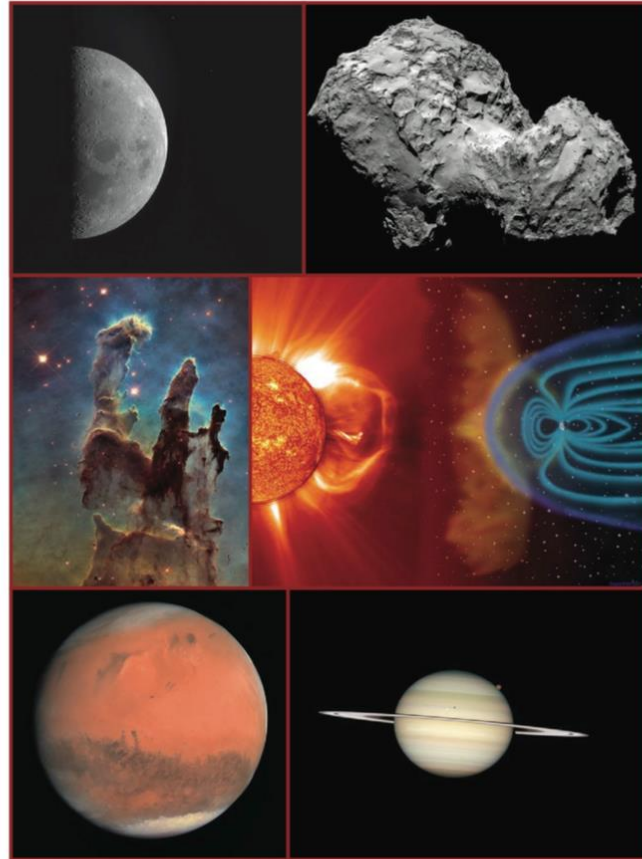
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# EDUCATION



*GIFT WORKSHOP - 2016*

*THE SOLAR SYSTEM AND BEYOND*

*Vienna, Austria, 17-20 April 2016*

A large, light gray watermark of the letters 'EGU' is centered in the background of the slide.

**PRESS CONF**

## Press activities

- Press conferences: opportunity for scientists to present their work to journalists; opportunity to get the EGU conference and its research to reach a wider audience
- ~ Several press conferences planned: <http://media.egu.eu/press-conferences/>
- Remote streaming + questions: via Skype and Twitter (this worked well last year)

### Press Conferences

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All press conferences are being live streamed online. Videos for press conferences will be available from the Stream links at <http://www.egu2014.eu/webstreaming.html>. If you are a journalist or freelance writer and you wish to ask questions remotely, you can do so using Skype or Twitter. Add **egu.media** to your Skype contacts and ask questions using the text chat feature, or tag your tweets with **#askEGU** to query panellists. Please indicate who your question is for when asking and identify yourself with name and affiliation. During each press conference, a member of the EGU press team will monitor the chat line and the Twitter feed and read your questions out loud. More details on how to access press conference remotely are available from the [Webstreaming section](#) on this website.

All press events are taking place at the Press Centre, located on the [Yellow Level](#) (Ground Floor) of the [Austria Center Vienna](#). All times are CEST (local time in Vienna). Unless otherwise indicated, each briefing should last no more than 50 minutes, including questions.



## Press activities

### COULD WE DEFLECT AN INCOMING ASTEROID? LATEST MISSION DEVELOPMENTS OF AIM & DART

Wednesday, 20 April, 12:00–13:00

ESA's Asteroid Impact Mission (AIM) will, if approved, travel to the Didymos binary asteroid system, scheduled for its relatively close Earth encounter in 2022. AIM will perform the first detailed studies of a binary asteroid, including studies before, during and after the impact of the accompanying NASA's Double Asteroid Redirection Test (DART) impactor spacecraft into Didymoon, the smaller of the two asteroids in the system. The main purpose of the DART mission, if approved, is to demonstrate and test for the first time the kinetic impact technique for deflecting an asteroid from its course. The impact of the DART spacecraft will measurably change the orbit of Didymoon around its primary body. This press briefing will provide new results on research about the impact experiment, the detailed design of AIM's micro-lander, and many new scientific and technical investigations.

#### *Participants:*

##### **Michael Küppers**

AIM Project Scientist, European Space Astronomy Centre, Science Operations Department, Villanueva de la Cañada, Spain

##### **Ian Carnelli**

AIM Mission Manager, European Space Agency, HQ, Paris, France

##### **Patrick Michel**

Chair of the AIM Investigation Team, Lagrange Laboratory, Université Côte d'Azur, Observatoire de la Côte d'Azur, CNRS, Nice, France

##### **Andy Cheng**

DART Lead Investigator, John Hopkins University Applied Physics Laboratory, Laurel MD, United States

Related scientific session: [PS1.5](#)

# Geocinema

**The Asteroid Impact Mission / Fast facts: rivers of the red planet**

# WHAT IS NEXT

## ELECTIONS

- NEW PS DIVISION PRESIDENT
- ELECTION IN AUTUUMN

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

# How to Improve ?

- Not enough OBs (~30-%) to satisfy everybody and conveners should be aware that sessions with less than 15 abstracts total submitted may not be able to get any OBs.
- Rooms: each division gets a few rooms/time and has to cope with that.
- Posters/PICO : more attractive ?
- PICO/POSTER Awards! Need Judges / Award for convener / Judge
- Side Meetings: Small rooms and Splinter, Townhall Meetings.
- New Sessions / Missions (Mars, Jupiter,.. Proposals) ?
- More co-organized sessions
- More Union level Sessions
- Consider Outreach, Great Debates and Press conferences.
- Web Pages/ Twitter /Facebook (Use for the community)
- Give your Feedback! Conveners, YS, Science Officers, P, VP, ....
- Send ideas on Geocinema, Education/Outreach, Meetings

# NOMINATIONS!

## **Jean Dominique Cassini Medal & Honorary Membership**

Planetary and space sciences

## **David Bates Medal**

Planetary and Solar System Sciences

(attributed every other year, rotation with Runcorn-Florensky Medal)

## **Runcorn-Florensky Medal**

Planetary and Solar System Sciences

(attributed every other year, rotation with David Bates Medal)

**Division Outstanding Young Scientists Award 2016**

Deadline June 15 201



# NEXT STEP FOR THE PROGRAMME

	Public	Conveners	Programme Committee/ Copernicus Meetings
July			Call-for-Skeleton Programme to Programme Committee
July -Sept	Public Call-for-Session Proposals		
October			Session Programme Finalization and Request of Cooperation between Programme Groups
			Iteration in Acceptance of Cooperation Requests
			Email of PC Chair to PG Chairs
			Fall Programme Committee/Council Meeting
October	Call-for-Papers		
End November	Deadline for Support Applications		
December		Support Application Assignment & Rating	
December			Support Application Ranking
January			Support Selection by Committee
	Outcome of Support Selection	Outcome of Support Selection	
January	<b>Deadline for Receipt of Abstracts</b>		

Many thanks to the PS authors for being here,  
officers and conveners for their great and  
voluntary dedicated work

Any other Business ?



**DPS 48 / EPSC**

**16-21 October 2016 • Pasadena, CA**

**Upcoming Meeting  
— 2016 (joint with  
EPSC)**

48th Annual Meeting

**Date:** 16-21 October 2016

**Venue:** Pasadena Convention  
Center

**City:** Pasadena, CA

**LOC:** [Diana Blaney](#)

**SOC:** [Kevin Baines](#)



**General  
Assembly  
2017**

**Vienna | Austria  
23-28 April 2017**

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