

ESSI Division Meeting 2016

Room L1 12:15-13:15

Joan Masó



Meetings | Publications | Outreach | www.egu.eu

EGU General Assembly 2015 Facts

As of 07 April, the Assembly 2015 provides:

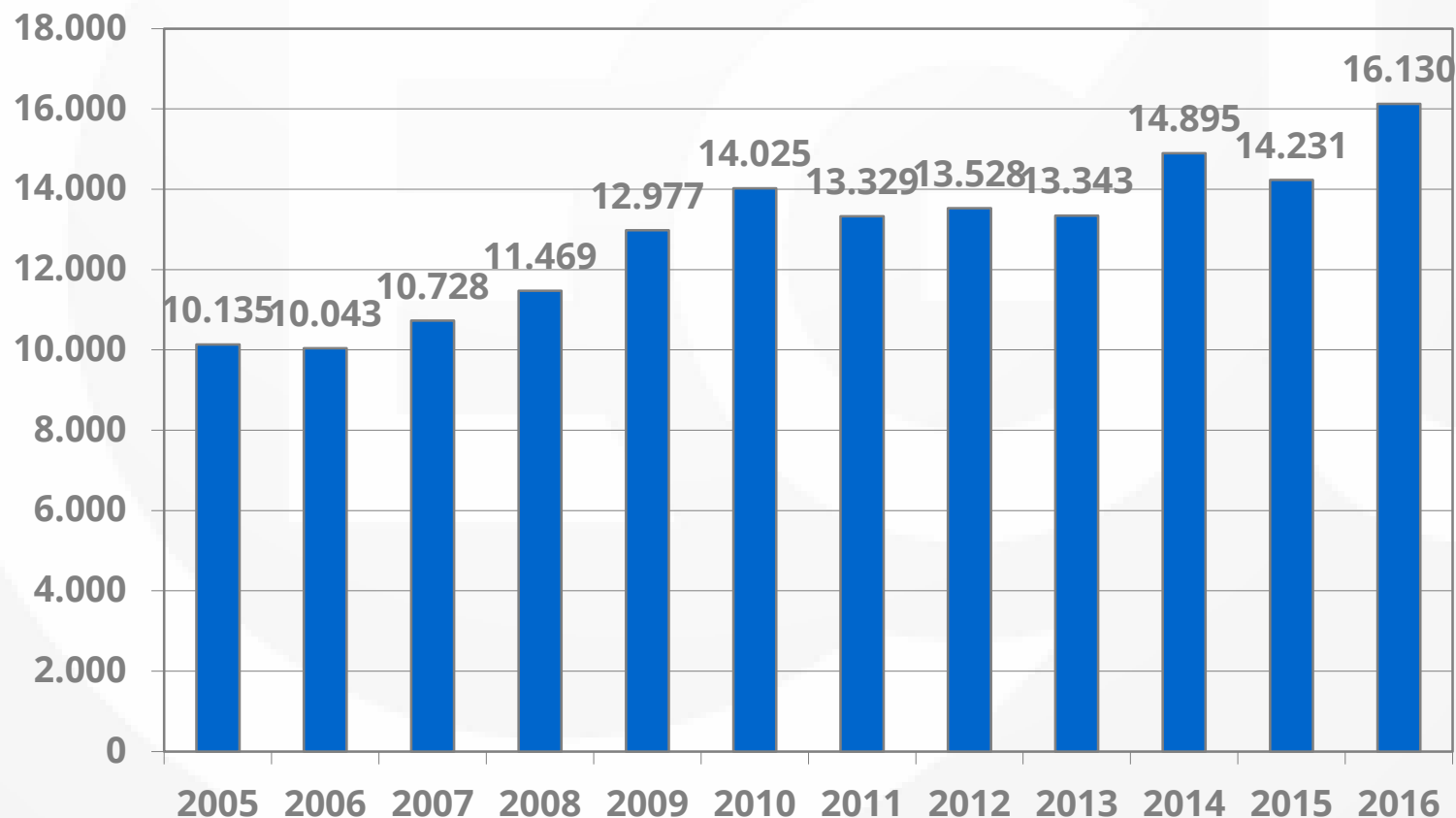
- » 14,231 papers in programme | -4.46% (2014)
- » 4,900 orals | 8,608 posters | 723 PICOs
 - Ratio 34.5 / 60.5 / 5
- » 379 unique scientific sessions | 285 side events
- » 8,848 registrations in advance (8,800 already paid) | -13.77% (2014)

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
- » 10,988 registrations in advance (10,943 already paid) | +23.68% (2015)

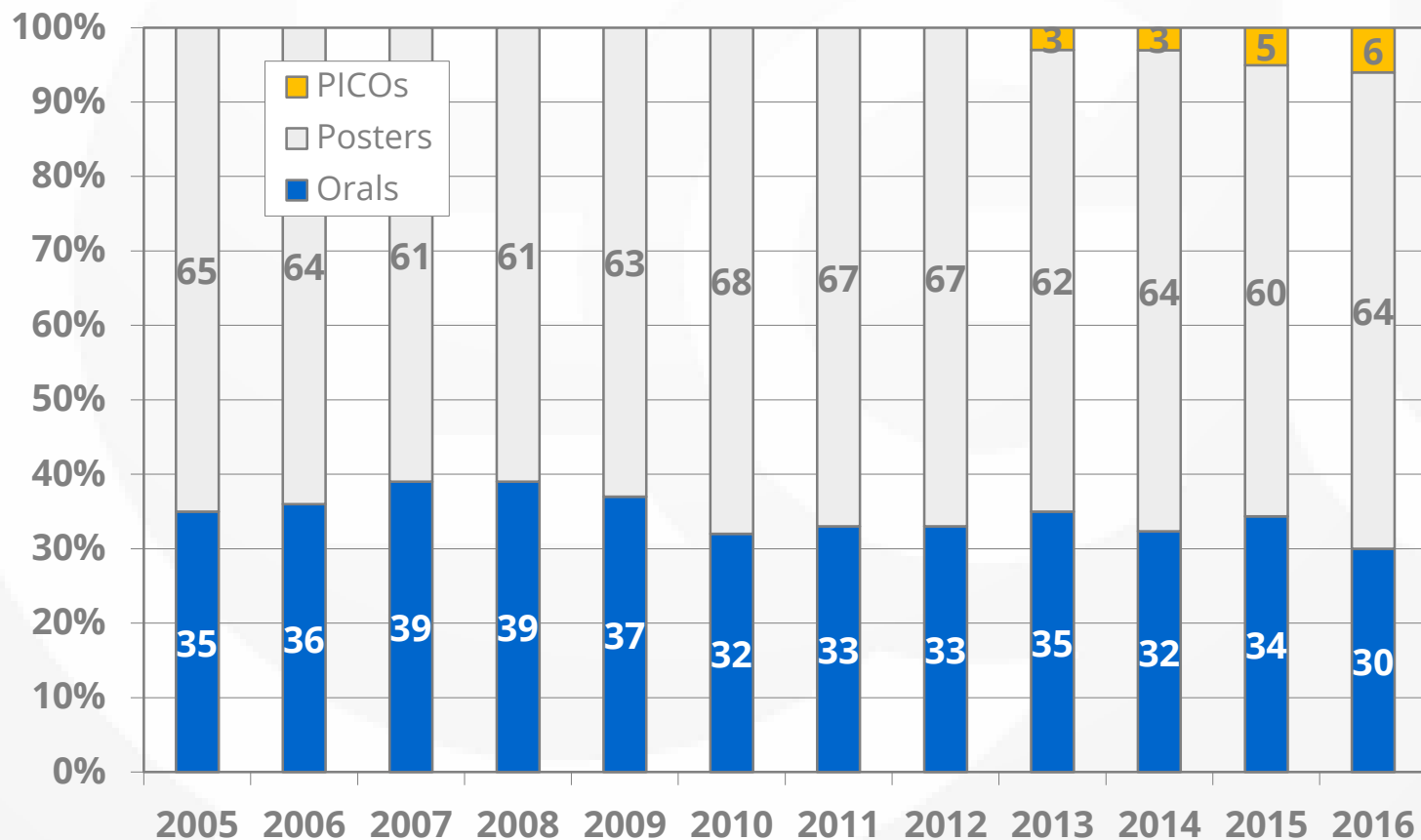
Over 16,130 this year !!!

Papers in programme 2005-2016

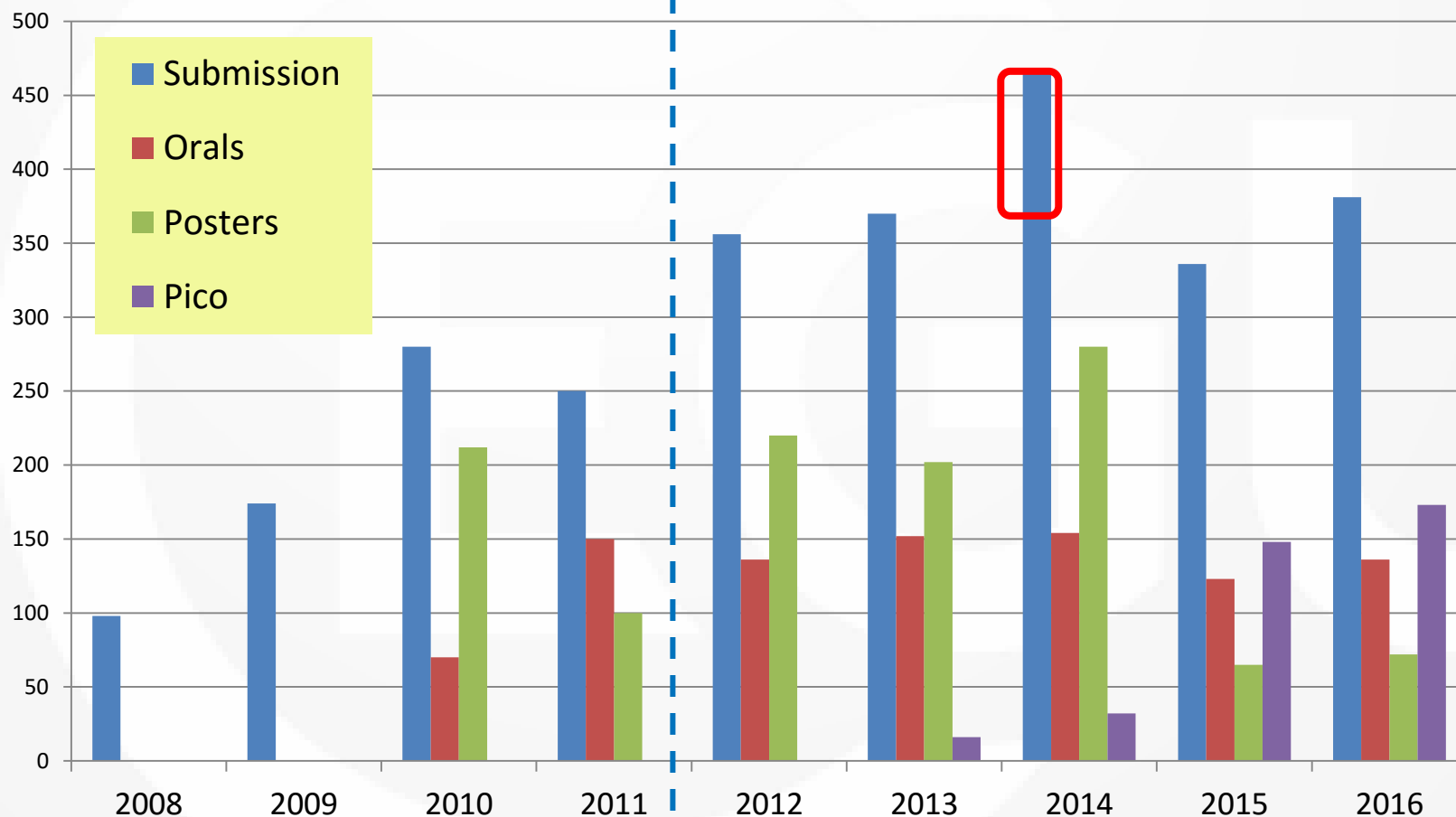




Presentation ratio 2005-2016



Participation in ESSI: 381 (+45)



Introduction of the
abstract fee

ESSI Subprogram in numbers

» #1: Community-driven challenges and solutions dealing with Informatics

- Sessions: 6/3
- Oral: 41, PICO: 12, Poster: 58

» #2: Infrastructures across the Earth and Space Sciences

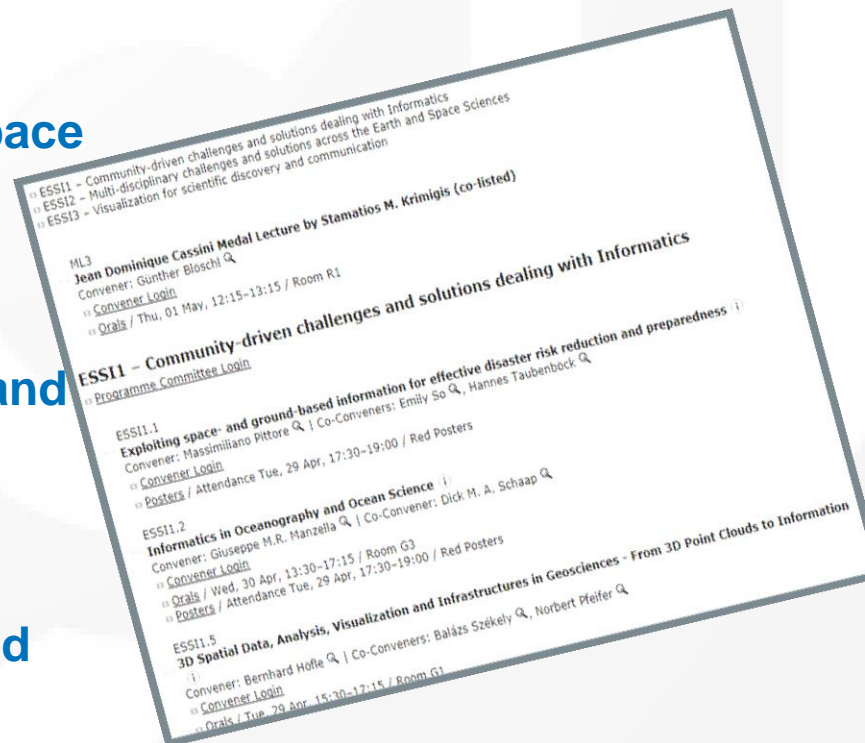
- Sessions: 5/4
- Oral: 31, PICO: 27, Poster: 44

» #3 Open Science 2.0 Informatics for Earth and Space Sciences

- Sessions: 5/5
- Oral : 37, PICO : 33, Poster: 37

» #4: Visualization for scientific discovery and communication

- Sessions: 2/1
- Oral: 27, PICO: 0, Poster: 34



91 Conveners

Alaitz Zabala, Alexa Wilkie, Alice Milne, Andrew Woolf, Ayelet Tsabari, Balázs Székely, Barbara Brown, Berit Arheimer, Bernadette Fritzs, Bernd Ritschel, Bernhard Höfle, Christian Bries, Damià Vericat, Dick M. A. Schaap, Dominik E. Reusser, Ebru Bozdog, Edzer Pebesma, Ewa Szykaruk, F.C. Ponzo, Fintan Hurley, Fiona Murphy, Francesco Soldovieri, Georg Gartner, Giuseppe M.R. Manzella, Hans Keune, Horst Schwichtenberg, Ian McCallum, Ivette Serral, Jay Pearlman, Jean Dumoulin, Jens Klump, Joan Masó, Jon Blower, José Miguel Rubio Iglesias, Karsten Steinhäuser, Kwo-Sen Kuo, Lev Eppelbaum, Lluís Pesquer, Lorenzo Bigagli, Manfred Dörninger, Mark Parsons, Markus Neteler, Martin Hammitzsch, Martin Rutzinger, Michael Smith, Mike Ashworth, Mike James, Mike Sips, Mikhail Kanevski, Miquel Ninyerola, Mohan Ramamurthy, Monica Alvarez de Buergo, Monique Petitdidier, Morris Riedel, Nicola Masini, Nicolas Brodu, Nicolas Younan, Niklas Röber, Norbert Pfeifer, Norman Kerle, Oliver Fuhrer, Paolo Diviacco, Paolo Mazzetti, Paul Kucera, Peter Baumann, Peter Düben, Peter Löwe, Philip Brown, Pierre-Philippe Mathieu, R M Lark, R. S. Nanjundiah, Reik Donner, Rémy Bossu, Rosa Lasaponara, Sandro Fiore, Saskia Keesstra, Sébastien Denvil, Simon Cox, Stefano Nativi, Steve Hughes, Takane Hori, Tobias Weigel, Torsten Möller, Tsuyoshi Ichimura, Valentine Anantharaj, William Lahoz, Wim Hugo, Wim Som de Cerff, Xavier Lapillonne, Xavier Pons, Yves-Louis Desnos

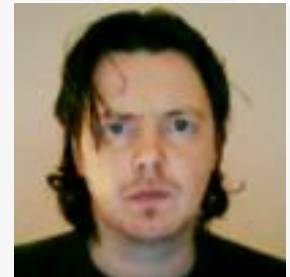
THANKS !

ESSI Subprogram

- » **#1: Community-driven challenges and solutions dealing with Informatics**
 - Kerstin Lenhert
 - Giuseppe Manzella
- » **#2: Infrastructures across the Earth and Space Sciences**
 - Horst Schwichtenberg
 - Wim Som de Cerff
 - Paolo Mazzetti
- » **#3: Open Science 2.0 Informatics for Earth and Space Sciences**
 - Yves-Louis Desnos
 - Pierre Philippe Mathieu
- » **#4: Visualization for scientific discovery and communication**
 - Jon Blower
 - Mohan Ramamurthy
- » **THANKS!**

Vice-president

- » Vice-president: Paolo Mazzetti
- » Has served for 2 years
- » Thanks

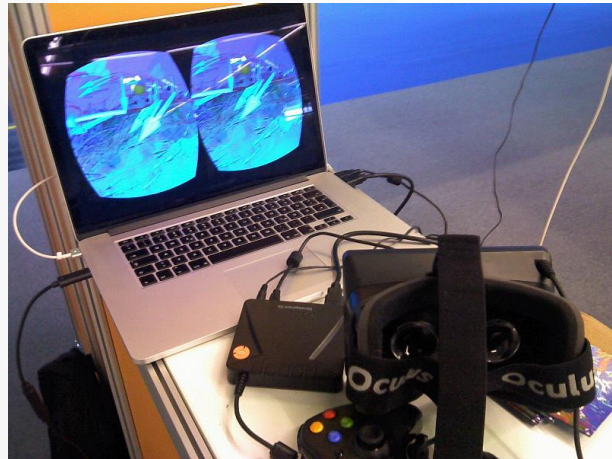


Science Officers

- » Reinhard Budich
 - Meteorology and Climatology
- » Pier Giorgio Marchetti
 - Space
- » Kerstin Lehnert
 - Geochemistry
- » Giuseppe R. Manzella
 - Oceanography
- » Peter Fox
 - for the Liaison with AGU-ESSI
- » Science Officers should promote sub-programmes and ask their colleagues to organize sessions.
- » They have served for many years. **THANKS!**
- » Is there new volunteers? Present sub-programmes chairs are good candidates to Science Officers.

4 PICO sessions

- » “The poster of the future”
- » I’m interested in your opinion about PICO to continue in this direction



Session ESSI3.2
State of the Art in Earth Science Data Visualization
2-Minutes-Madness: 08:30–08:56
PICO Viewing Time: 08:56–10:00
Please visit the touch screens and meet the author

Decrease in sessions on subprogram ESSI4

ESSI4 – Visualization for scientific discovery and communication

★ ESSI4.3/GI1.2

3D Point Clouds in Geosciences: Capturing, Analysis and Visualization (co-organized) Q

▣ Orals / Thu, 21 Apr, 15:30–17:15 / Room 2.61

▣ Posters / Attendance Wed, 20 Apr, 17:30–19:00 / Hall A

★ SSS11.4/ESSI4.6/HS11.39/NH9.13

Information in earth sciences: visualization techniques and communication of uncertainty (co-organized) Q

▣ Orals / Thu, 21 Apr, 08:30–12:15 / 13:30–15:15 / Room -2.32

▣ Posters / Attendance Thu, 21 Apr, 17:30–19:00 / Hall X1

- » In number of abstracts is not bad.
- » Need to increase the number of sessions with more attractive ideas.
- » Ideas are out there



EGU 2016: Active Planet

Thursday, 21 April 2016

Active Planet Lectures

Today's programme features two lectures celebrating this year's theme:

- The Active Solar System, by François Forget (Institut Pierre Simon Laplace, France) - This talk will focus on the other active worlds in the Solar System (TL5: 13:30–15:00 / Room 0.91)
- The Active Liquid Earth, by Bert Arheimer (Swedish Meteorological and Hydrological Institute) - This talk will highlight the importance of considering temporal and spatial variability of the Liquid Earth (TL3: 15:30–17:00 / Room 0.93)

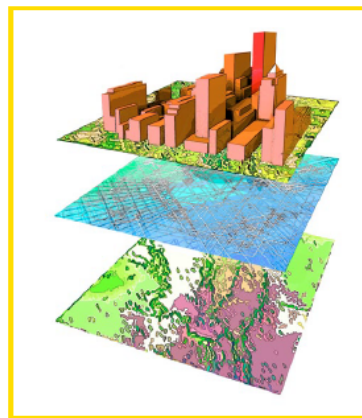
Deep geofluids: the bringers of change

The session revolves around themes such as: water as an agent in natural earthquake initiation, deep fracture fluids isolated in crust, activated degradation of organic matter in the deep biosphere, supercritical water for geothermal energy, sustainable energy and mineral resources, deep fluids and deep life, CO₂ storage, and hydrofracking. Thus, the physics, chemistry and biology of subsurface fluids are all addressed.

10:30–12:00 / Room L6

NEW Great Debate: Public peer review in open access publications: pros and cons

In public peer review, papers submitted to a peer review journal are first published in



Digital mapping in the 21st century: share your experience!

This session will show maps, explain which techniques and approaches were used to collect and present the data, inspire to use the same tools, or warn not to do so... all with the aim to share experiences with digital mapping within the interactive PICO-format!

TS7.1/GM2.3/GMPV1.5/SSP1.2 : PICO / 10:30–12:00 /

PICO spot 2

Layers of information. Credit: Diane Quick

Peter Löwe proposal

- » The modern record of science comprises, among others, of articles, data and **scientific software**. This affects all Divisions of EGU.
- » History
 - Dedicated EGU GA sessions addressing open source software development were first introduced in the Hydrology Division.
 - Since 2012, dedicated sessions are run in ESSI (ESSI3.5: *Free and Open Source Software (FOSS) for Geoinformatics and Geosciences*) which explicitly reach out to scientists from all Divisions, to give them a platform to present the software aspects of their work.
 - This enables scientists to focus on
 - the topical subjects within their Divisions
 - software/programming-related aspects in cross-Divisional audience (ESSI)
- » However, there is currently **no mechanism** within EGU to motivate and reward especially **early career scientists** to share and **communicate about the software** aspects of their work.
- » To foster this aspect of Open Science among the early career scientists, a cross-Divisional approach like a **competition/reward/medal** would be desirable.

Ian McHarg Medal

- » This medal has been established by the Division on Earth and Space Sciences Informatics. It is reserved for distinguished research in Information Technology applied to Earth and Space Sciences.
- » In recognition of the scientific achievements of Ian McHarg.
 - Glasgow 1920 – USA 2001
 - was pioneer of the concept of ecological planning
 - he set the basic concepts of the Geographic Information Systems.





2013

» Alessandro Annoni

- information technology applications, data management, openness



2012

» Peter Fox

- informatics as a genuine discipline in Earth Sciences



2011

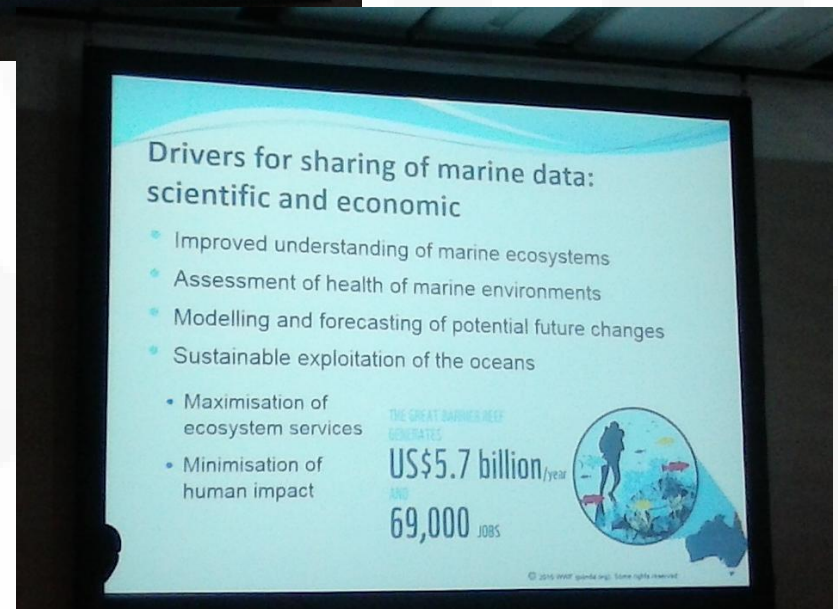
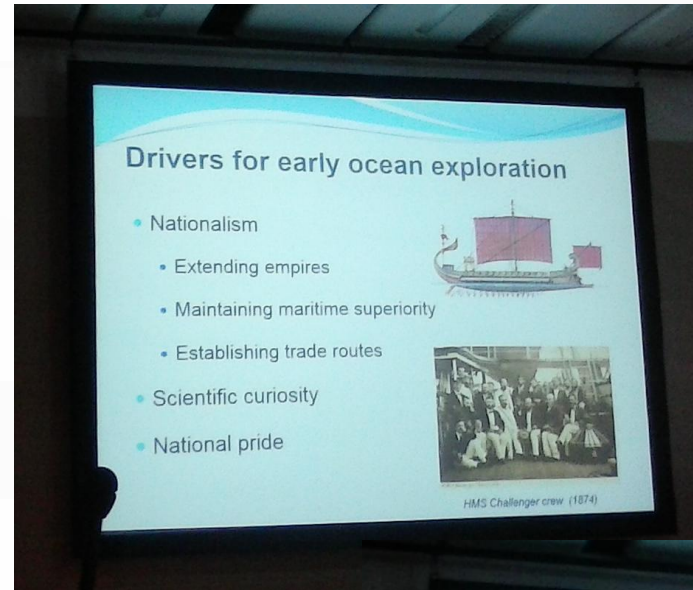
» Monique Petitdidier

- support of African scientists, outreach and 'science citizens'

Our NEW Medallist



Helen Glaves lecture



ESRI reception

- » ESRI kindly offered a reception to celebrate with the new medallist for all Earth and Space Sciences Informatics (ESSI) membership.
- » Thanks!



Future medals



- » In 2013-2014 we did not have nominations and the opportunity was missed
- » In 2014-2015 we fail to provide a valid candidate.
 - 2 candidates were submitted. One was discarded because a fail in one of the requirements and the other was not considered relevant for ESSi section.
- » In 2015-2016 We managed to have 2 good candidates

THAAAAANKS!!

- » **You MUST** submit candidates. The president cannot.
 - <http://www.egu.eu/awards-medals/proposal-and-selection-of-candidates.html>
- » **More than one candidate is required.**
- » Please start thinking about candidates for 2017
 - Ideas?

Former Ian McHarg Medal committee

- » Alessandro Annoni (3 years)
- » Lluís Pesquer (1 year)
- » Peter Fox (4 years)
- » Peter Baumann (2 years)
- » David Arctur (2 years)
- » Jose Miguel Rubio (2 years)
- » **THANKS!!**

New medal committee for **approval**

» Alessandro Annoni (chair)



» Lluís Pesquer

» Helen Graves



» Peter Baumann

» David Arctur



» Jose Miguel Rubio

» Neither against nor abstention votes

Early Career Representative



- » Each division can have a representative for the early career scientist
- » Early career scientist representatives are a crucial link between the EGU and the young scientist community

<http://geolog.egu.eu/2013/12/06/seeking-young-scientists-a-great-opportunity-to-get-involved-in-the-egu/>

Division/Programme Group Representatives 2015–2016



**Atmospheric
Sciences (AS)**

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University of Cambridge, UK

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Biogeosciences (BG)

Charlotte Spencer-Jones
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**Climate: Past,
Present & Future
(CL)**

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**Cryospheric Sciences
(CR)**

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**Earth and Space
Science Informatics
(ESSI)**

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GFZ German Research Centre
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**Energy, Resources
and the
Environment (ERE)**

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**Geochemistry,
Mineralogy,
Petrology &
Volcanology (GMPV)**

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Geodesy (G)

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Germany

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Geodynamics (GD)

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German Aerospace Center

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**Geomorphology
(GM)**

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**Geosciences
Instrumentation
and Data Systems
(GI)**

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**Hydrological
Sciences (HS)**

Shaun Harrigan
Maynooth University, Ireland

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**Natural Hazards
(NH)**

Raffaele Albano
University of Basilicata, Italy

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**Nonlinear Processes
in Geosciences (NP)**

Auguste Gires
École des Ponts ParisTech,
France

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Ocean Sciences (OS)

Matteo Vacchi
Aix-Marseille University,
France

vacchi@cerege.fr



**Planetary and Solar
System Sciences (PS)**

Lena Noack
Royal Observatory of Belgium

lena.noack@oma.be

One Early Career Scientist Representative

- » The responsibilities can include (but aren't limited to):
 - organizing events for young scientists at our annual General Assembly,
 - outreach to young scientists and the wider public through social media or a division blog,
 - or establishing a mentoring programme for other young scientists
- » Candidates: Jennifer Roelens, Kasia Sawicka and Anatolii Chernovp
 - They are now going to present themselves
- » We need a vote and see who wins. We hope that whoever wins, they can work as a team afterwards.

ECS Representative Election

- » Any discussion before the election?
- » Procedure: Mentally select one candidate.
Raise your hand when your candidate is mentioned
- » Jennifer Roelens: 35 ← Elected
- » Kasia Sawicka: Not present
- » Anatolii Chernovp: 1



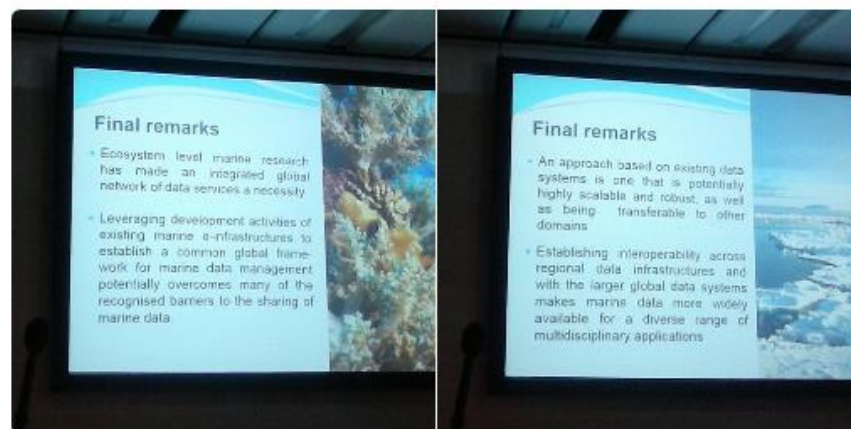
ESSI EGU

EGU_ESSI
@EGU_ESSI

TWEETS 142 SIGUIENDO 31 **SEGUIDORES 97**

» Could we have 100 followers by the end of this meeting?

EGU_ESSI @EGU_ESSI - 20 abr.
Final @HelenG66 remarks. From regional to global infrastructures for multidomain research e.g. ecosystem services.



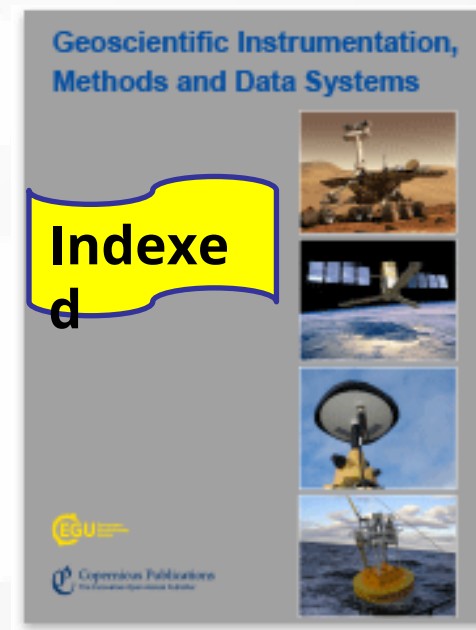
EGU_ESSI @EGU_ESSI - 20 abr.
Followed by @HelenG66 presentation reviewing aspects of data sharing & historical and today drivers. Research & data



Open Access Journals in EGU

» **Geoscientific Instrumentation, Methods and Data Systems (GI).** Topics:

- Retrieval techniques of scientific products from measurements;
- Calibration and data quality assessment;
- Uncertainty in measurements;
- Newly developed and planned research platforms and community instrumentation capabilities;
- Major national and international field campaigns and observational research programs;
- New observational strategies to address societal needs in areas such as monitoring climate change and preventing natural disasters;



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.

We need a NEW division president

- » Current president is starting its 4rd
- » Previous years:
 - 2013→2014, 2014→2015, 2015→2016
- » Thanks for re-electing me
- » Final year 2016→2017

- » In 2016 will be an opportunity to appoint a new division president.
- » Please, please stay tune to the process. In the summer you will get a EGU email with instructions.

It is not so hard

- » The division president has to:
 - Represent the division in three f2f meetings
 - October (Ismaning), February (Europe), April (Here)
 - Review the sessions and sort them
 - After abstracts are reviewed by conveners... Consolidate sessions
 - Have the hard decision on oral rooms and *condemn* the rest to poster
 - Get as PICOs as possible
 - Look for other people to do the real jobs:
 - Division medal committees
 - ECS representatives
 - Conveners
 - Fortunately Copernicus.org and EGU sec. are doing a GREAT job supporting you with good portal and almost immediate reaction to emails.

Next year, I'll come to support the new president!!

THANKS for your support

I will still be the president until April 2017 to manage the next ESSI program.

91 Conveners

Alaitz Zabala, Alexa Wilkie, Alice Milne, Andrew Woolf, Ayelet Tsabari, Balázs Székely, Barbara Brown, Berit Arheimer, Bernadette Fritzs, Bernd Ritschel, Bernhard Höfle, Christian Bries, Damià Vericat, Dick M. A. Schaap, Dominik E. Reusser, Ebru Bozdog, Edzer Pebesma, Ewa Szykaruk, F.C. Ponzo, Fintan Hurley, Fiona Murphy, Francesco Soldovieri, Georg Gartner, Giuseppe M.R. Manzella, Hans Keune, Horst Schwichtenberg, Ian McCallum, Ivette Serral, Jay Pearlman, Jean Dumoulin, Jens Klump, Joan Masó, Jon Blower, José Miguel Rubio Iglesias, Karsten Steinhäuser, Kwo-Sen Kuo, Lev Eppelbaum, Lluís Pesquer, Lorenzo Bigagli, Manfred Dörninger, Mark Parsons, Markus Neteler, Martin Hammitzsch, Martin Rutzinger, Michael Smith, Mike Ashworth, Mike James, Mike Sips, Mikhail Kanevski, Miquel Ninyerola, Mohan Ramamurthy, Monica Alvarez de Buergo, Monique Petitdidier, Morris Riedel, Nicola Masini, Nicolas Brodu, Nicolas Younan, Niklas Röber, Norbert Pfeifer, Norman Kerle, Oliver Fuhrer, Paolo Diviacco, Paolo Mazzetti, Paul Kucera, Peter Baumann, Peter Düben, Peter Löwe, Philip Brown, Pierre-Philippe Mathieu, R M Lark, R. S. Nanjundiah, Reik Donner, Rémy Bossu, Rosa Lasaponara, Sandro Fiore, Saskia Keesstra, Sébastien Denvil, Simon Cox, Stefano Nativi, Steve Hughes, Takane Hori, Tobias Weigel, Torsten Möller, Tsuyoshi Ichimura, Valentine Anantharaj, William Lahoz, Wim Hugo, Wim Som de Cerff, Xavier Lapillonne, Xavier Pons, Yves-Louis Desnos

THANKS !