

GI Division Meeting

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General Assembly, Vienna | 19.04.2016



Meetings | Publications | Outreach | www.egu.eu

- Welcome
- EGU GA 2016 status
- Communication Activities at GA 2016
- GI Sessions status 2016
- GI Journals status
- GI Division President Election
- Planning of the GI sessions for EGU GA 2017
- Proposal of new composition of Division (Christiaan Huygens) Medal Committee
- Solicitation of candidatures for Christiaan Huygens Medal
- Outstanding Student Poster Initiative
- Election / Confirmation of Division Officers
- EGU Initiatives (Outreach, Events, Meetings..)
- Any other business / EGU-service advertisement



EGU General Assembly 2016 facts

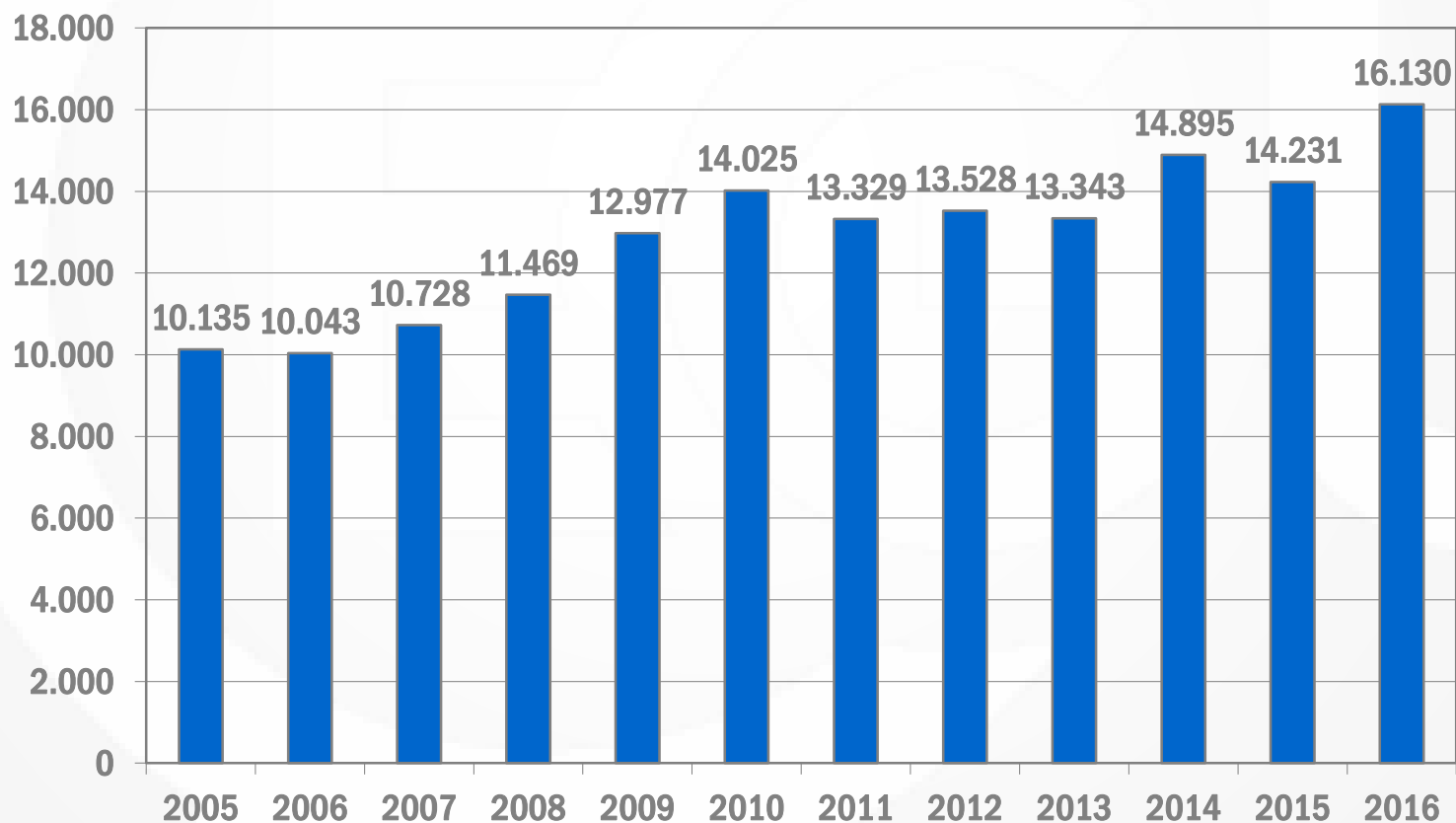
As of 14 April, the Assembly 2016 provides:

- 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)

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

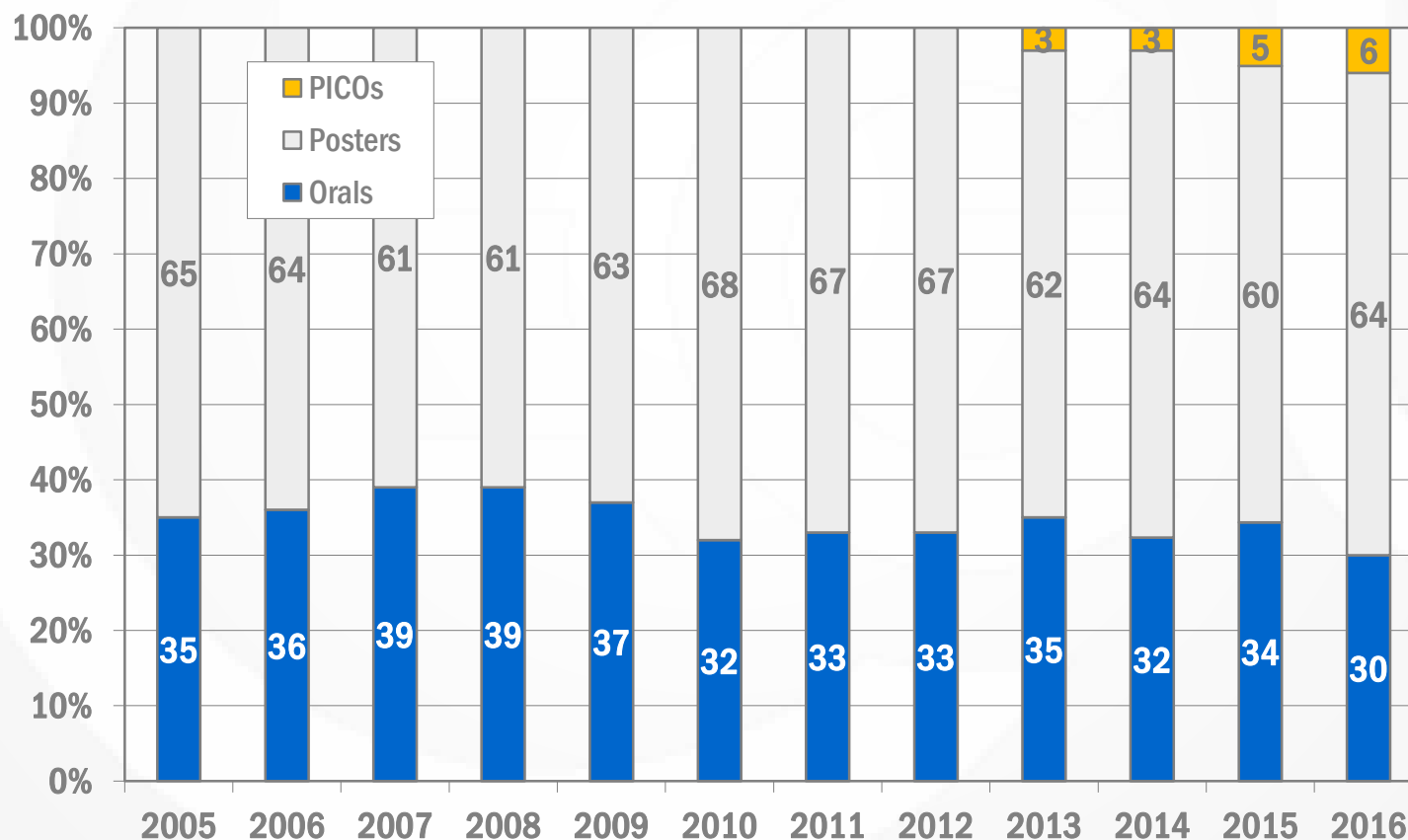


Papers in programme 2005–2016



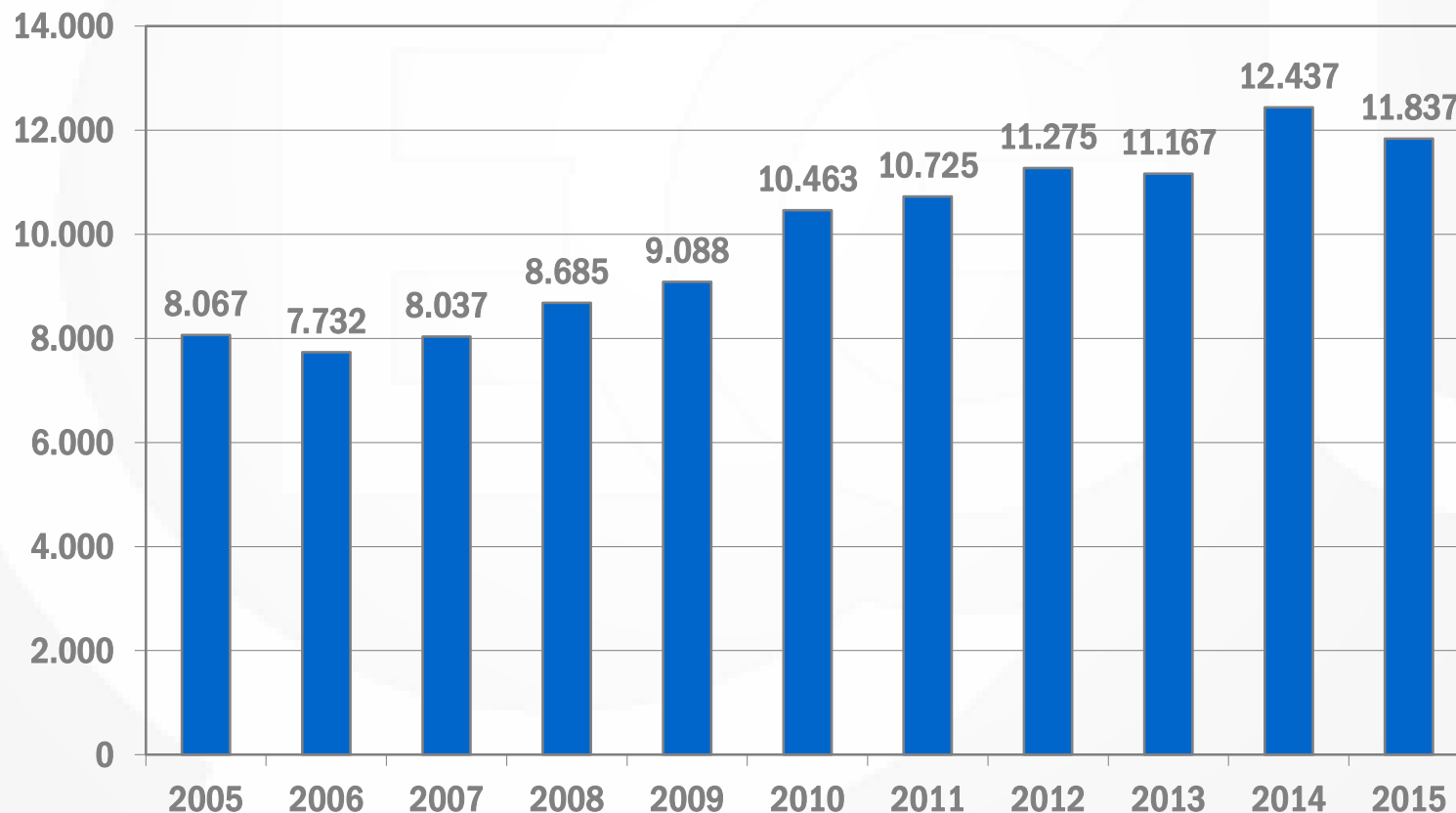


Presentation ratio 2005–2016





Participants at EGU General Assemblies 2005–2015



Communication Activities at the General 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.egu2016.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 #EGU16

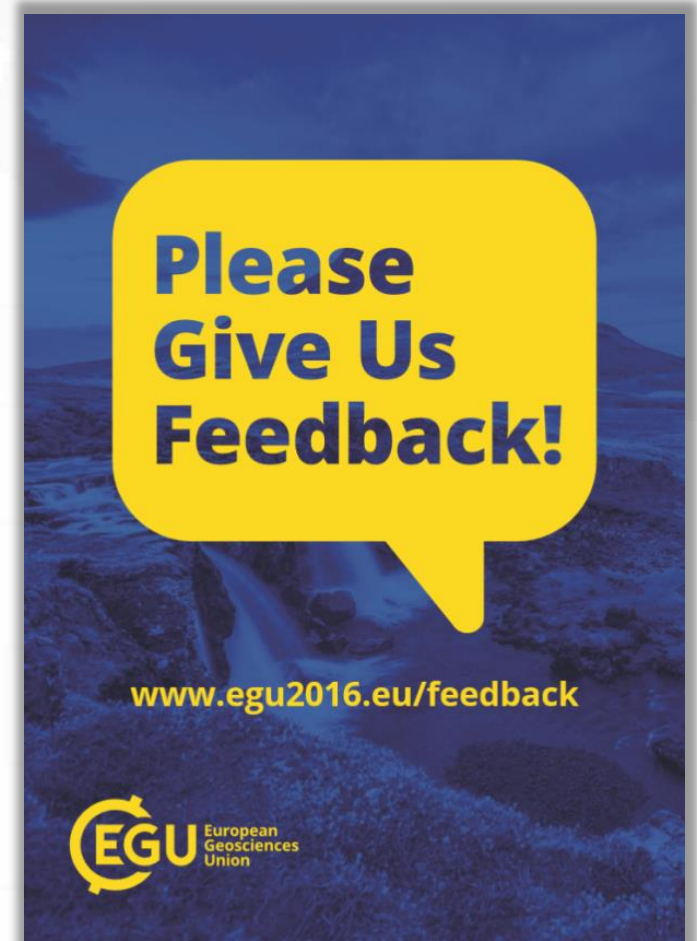
GA Survey

www.egu2016.eu/feedback

- Distribution:
 - via email to participants and EGU members after GA
 - links on social media & blog
 - egu2016.eu website
 - Flyers/cards in Vienna
- Survey live during GA and until mid June

Last year, our General Assembly feedback form received more than 1,400 responses ([EGU 2015 results](#)). These were examined carefully and played a large part in shaping improvements for the EGU General Assembly 2016.

5-10 minutes are sufficient to complete this questionnaire. Your input is very helpful for shaping the next EGU General Assembly, to be held from 23 to 28 April 2017 in Vienna, Austria.



GI Sessions at GA2016

Total: **612 abstracts** (19 withdrawn) , + *28%* with respect to GA2015 and + *13 %* with respect to GA2014) .

30 Sessions (24 Co-organized, 14 GI lead)

1 Short Course

Oral: **181** 30% distributed over **31 oral slots**

PICO: **58** 9%

Poster: **373** 61%

History: **2015 465 (26 oral slots)**

2014: 524 (18 oral slots)

2013: 435 (20 oral slots)

2012: 335 (14 oral slots)

2011: 305

2010: 180

GI0- General Session on Geoscience Instrumentation

4 Sessions with 3 co-organized (2 GI lead)

GI0.1 Open Session on Geosciences Instrumentation and Methods (including Christiaan Huygens Medal Lecture)

GI0.2 Instrument Design and Development

GI0.3 Application of Open-Source Microcontroller-Based Kits in Geosciences and Education

GI0.5 Integrating new and emergent multi-scale measurements and images of the physical properties of the Earth from laboratory experiments to the Deep Earth

GI1 – Data networks and analysis

5 Sessions, all co-organized (2 GI lead)

GI 1.1 Applications of Data, Methods and Models in Geosciences

GI1.2 3D Point Clouds in Geosciences: Capturing, Analysis and Visualization

GI1.4 Geoscience processes related to Fukushima and Chernobyl nuclear accidents

GI1.5 Free and Open Source Software (FOSS) for Geoinformatics and Geosciences

GI1.6 20 years of persistent identifiers - where do we go next

GI2 – Atmosphere and ocean monitoring, space instrumentation

11 Sessions, 8 co-organized (5 GI lead)

GI2.1 Atmospheric and Meteorological Instrumentation

GI2.2 Space Instrumentation, Planetary landers and Rovers

GI2.4 Scientific Exploitation of Copernicus Sentinels

GI2.5 Sentinel 1 for Science, INSAR results

GI2.6 Sentinel 2 for Science, First results

GI2.8 New missions and techniques for planetary exploration

GI2.10 Atmospheric applications in microwave radiometry

GI2 – Atmosphere and ocean monitoring, space instrumentation

11 Sessions, 8 co-organized (5 GI lead)

GI2.12 Advanced Spectroscopic Measurement Techniques for Atmospheric Science

GI2.13 MAX-DOAS and other scattered light DOAS systems: instruments, techniques and applications

GI2.14 Quantifying greenhouse gas fluxes on local, regional and global scales using atmosphere, ocean and biosphere measurements

GI2.15 Open session on Biogeosciences

GI3 – Earth surface investigation methods

11 Sessions, 9 co-organized (5 GI lead)

GI3.1 Civil Engineering Applications of Ground Penetrating Radar

GI3.2 Sensing techniques, geophysical methods, sensor network architectures and data analysis methods for critical and transport infrastructures monitoring and diagnostics

GI3.3 From Artefact to Historical Site : Geoscience and Non-Invasive Methods for the Study and Conservation of Cultural Heritage

GI3.4 Applications of Ground Penetrating Radar in Geosciences

GI3.5 Innovative instrumentation and data processing methods in near surface geophysics

GI3 – Earth surface investigation methods

11 Sessions, 8 co-organized (5 GI lead)

GI3.7 Frontiers in Geomorphometry and Earth Surface Dynamics: Possibilities, Limitations and Perspectives

GI3.8 Short course: Analytical techniques for revealing the nature and chemical properties of natural organic matter

GI3.9 Citizen-empowered science and crowdsourcing in the geosciences. Uncertainty and user perception

GI3.10 Thermo-hydro-mechanical couplings and deep geothermal energy

GI3.11 Rock magnetism: theory, experiments and observations

GI3.12 Multiscale modeling and analysis of environmental processes

Proposal of new GI Session Planning

For each subprogramme, one responsible to solicit new proposals, interact and get suggestions/request from conveners, to help the Division President in setting-up the Division Programme at GA

Subprogramme	Responsible
GI0- General Session on Geoscience Instrumentation	Dr. Walter Schmidt
GI1 – Data networks and analysis	Dr. Dr. Masatoshi Yamauchi
GI2 – Atmosphere and ocean monitoring, space instrumentation	Dr. Vira Pronenko
GI3 – Earth surface investigation methods	Dr. Jean Dumoulin

Do you agree ?

In the positive case, volunteers ?

Geoscientific Instrumentation, Methods and Data Systems

EGU's 15th Open Access Journal

Topics: Concepts, design and description of instrumentation and data systems. Retrieval techniques of scientific products from measurements. Major national and international field campaigns. New observational strategies. Networking of instruments. etc

Currently no abstract charges

Fast publishing as citable discussion paper (~ 1-2 weeks)

Public referee process

Fast publishing after referee process in refereed GI journal (~3-4 months)

<http://www.geoscientific-instrumentation-methods-and-data-systems.net>

GI: Volumes 2012, 1.1 and 1.2: 238 pages, 20 articles
Volumes 2013, 2.1 and 2.2: 348 pages, 35 articles
Volumes 2014, 3.1 and 3.2: 254 pages, 21 articles
Volumes 2015, 4.1 and 4.2: 226 pages, 22 articles
Volume 2016, 5.1: 84 pages, 7 articles (till now)

GID: papers in open discussion: 12

Special issues:

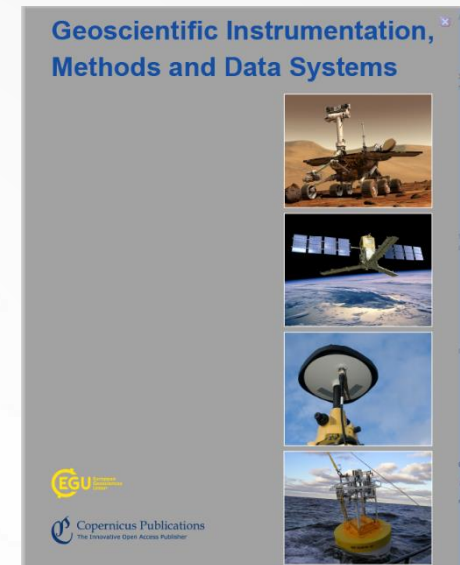
2012: High energy geophysics: muon and neutrino radiography

2013: Calibration methods and results of the in-situ experiments on Cluster and Double Star

2015. Multi-disciplinary research and integrated monitoring at the Sodankylä research station:
from sub-surface to upper atmosphere processes,

2015 Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5)

Abstracted/indexed [Science Citation Index Expanded](#) [Current Contents/PCE](#),
[ADS](#), [Chemical Abstracts](#) [CLOCKSS](#) [CNKI](#) [DOAJ](#) [EBSCO](#) [Gale/Cengage](#)
[GeoRef](#) [GoOA \(CAS\)](#) [Google Scholar](#) [J-Gate](#) [Portico](#) [ProQuest](#) [World Public](#)
[Library](#)



Christiaan Huygens Medal 2016

The 2016 Christiaan Huygens Medal is awarded to Karl U. Schreiber for his development work on ultra stable large ring laser gyroscopes for geodetic and other geosciences applications.

ML11

Christiaan Huygens Medal Lecture by Karl U. Schreiber

Convener: Francesco Soldovieri

Tue, 19 Apr, 11:00–12:00 / Room -2.31

Medal lecture with the title “What can High Resolution Inertial Rotation Sensing do for the Geosciences?” presented in GI01. session



Proposal of new composition of Christiaan Huygens Medal Committee

Chairman: Walter Schmidt

Current Members Günther Kargl (3rd term)
Jens Klump (4th term)
Kristine Larson (2^o term)
Lara Pajewski (2^o term)

Proposed new member:
Karl U. Schreiber as replacement of Jens Klump

Any objection ?

Christiaan Huygens Medal

The Christiaan Huygens Medal has been established by the Geosciences Instrumentation and Data Systems Division to recognise significant contributions in the fields within the scope of the division. The medal will be awarded to an individual for an innovation, development or discovery that has had major impact in its field, or for a series of contributions, during an extended period, that has led to significant progress.

The medal has been exclusively designed for the EGU by József Kótai.



Christiaan Huygens Medallists



2016

Karl U. Schreiber



2015

Kristine M. Larson



2011

Martin Hürlimann



2010

Jean-Loup Bertaux



2009

Valery Korepanov



2008

Horst Uwe Keller

Proposals for nominations to be submitted on-line to the Council by June 15 !

Nomination letter: 1 page

Curriculum Vitae: 2 pages

Selected biography: 2 pages

Supporting letters: 3-5

Details on the EGU web-site <https://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/>

Outstanding Student Poster (OSP) Award

OSP 2015 is awarded to **Panos Georgiou** for the poster entitled:

Assessment of in-situ compaction degree of HMA pavement surface layers using GPR and novel dielectric properties-based algorithms (Georgiou, P.; Loizos, F.).



Panos Georgiou is a PhD student at the Department of Transportation Planning and Engineering, National Technical University of Athens (NTUA), working under supervision of Prof. Andreas Loizos. His PhD project is focused on the assessment of the effect of compaction methodology on the Hot Mix Asphalt (HMA) properties and formation of laboratory compaction protocols in order to simulate the field compaction.

The poster presented at the EGU 2015 showed results concerning the effectiveness of GPR methodology to estimate the in-situ compaction degree of HMA pavement surface layers compared to traditional methods which have limited capabilities in terms of full coverage evaluation of the pavement mat and the potential of GPR technique to be used coupled with novel dielectric properties-based algorithms as a surrogate tool for pavement compaction quality purposes

Outstanding Student Poster and PICO (OSP) Award

GI-OSP coordinator: Misha Krassovski

This year 16 candidates from GI Sessions.

Criteria for Application

Students that:

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

<https://www.egu.eu/awards-medals/union-osp-award>

Outstanding Student Poster and PICO (OSPP) Award

URGENCY: We have still to assign the judges for the following poster

Conveners/co-conveners, arrange urgently judges to these posters in your session, which will be this Wednesday or Thursday evening:

1. EGU2016-4227, Roger Escolà et al. Thu A.440; **GI2.4**

e-mail: yes-louis.desnos@esa.int

Broadview Radar Altimetry Toolbox.

2. EGU2016-4888, Armin Sigmund et al. Thu A.429 ; **GI2.1**

e-mail: m.rose@bas.ac.uk

Related oral session: Thu 13:30-17:00

Measuring centimeter-resolution air temperature profiles above land and water using fiber-optic Distributed Temperature Sensing.

3. EGU2016-16974, Jiajun Chen et al. Wed A.421; **GI2.5**,

e-mail: yes-louis.desnos@esa.int

Related oral session: Tue 13:30 L3

InSAR measurements for the 2014 Mw 6.0 Jinggu, Yunnan Earthquake.

Early Career Scientists (ECS)

EGU offers a platform for ECS to become involved in interdisciplinary research in the Earth, planetary and space sciences, through sessions, social events and short courses at the annual General Assembly in April.

What is an Early Career Scientist?

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

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

Early Career Scientists Representative

ECS representatives are a crucial link between the EGU and the early career scientist community. They are vital in providing feedback from students and early career researchers, so that we can take action to improve our early career scientists activities at the EGU General Assembly and maintain our support for early career scientists throughout the year.

Within each [scientific division](#), representatives can also take on a variety of tasks, according to their areas of expertise and interest. These can include (but aren't limited to): organising events for early career scientists at our annual General Assembly, outreach to early career scientists and the wider public through social media or a division blog, or establishing a mentoring programme for other early career scientists.

ECS Representative	Dr. Fabio Tosti	fabio.tosti@uniroma3.it
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Division Outstanding Young Scientists Awards

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.

The whole nomination package for the Outstanding Young Scientists Award / Arne Richter Award for Outstanding Young Scientists must not exceed 2 pages, otherwise the nomination will not be accepted.

Candidates for the Outstanding Young Scientists Awards are first evaluated by the relevant Division presidents who forward the best candidate to the Chair of the Union Award Committee. 4 candidates are then selected by the Council and awarded at the Union level (Union Award), namely the Arne Richter Award for Outstanding Young Scientists. The remaining best candidates are awarded by the relevant Division (Division Award).

Science Officers

Science Officers	Bernard Celerier <i>Downhole Instrumentation</i>	bernard.celerier@gm.univ-montp2.fr
	Andriy Marusenkov <i>Electromagnetic and Acoustic Sounding</i>	marand@isr.lviv.ua
	Marina Diaz-Michelena <i>Space instrumentation</i>	diazma@inta.es
	Torben Mikkelsen <i>Ocean and Atmosphere Instruments</i>	torben.mikkelsen@risoe.dk
	Nicola Masini <i>Cultural and Archeological Heritage</i>	n.masini@ibam.cnr.it
	A.-M. Harri <i>Instrumentation for Polar Regions and Harsh Environment</i>	ari-matti.harri@fmi.fi
	Jean Dumoulin <i>Infrastructures instrumentation and monitoring</i>	jean.dumoulin@ifsttar.fr
	Jens Klump <i>Data systems and Publishing</i>	Jens.klump@csiro.au

GI WEBSITE

Web-address:

<http://www.egu.eu/gi/home/>

Any suggestion is welcome

To the Division President via e-mail to gi@egu.eu

GI Division President Election

Division presidents are elected for a two-year term and can be re-elected once.

Maximum duration of a term is thus four years, from General Assembly to General Assembly.

- Nominations for division president are sought by an open call (August/September 2016).
- The Council evaluates the candidates and selects candidates for voting (October).
- The EGU membership votes for the division president (November 2016).

Volunteers are welcome !

Meetings Calendar

A hub of information on conferences and workshops in the geosciences. Add your meeting at www.egu.eu/meetings/calendar/form

Why not advertising a meeting you are organising in the EGU meetings calendar?

www.egu.eu/meetings/calendar/



The screenshot shows the EGU Meetings Calendar website. The header features the EGU logo, the text "European Geosciences Union", and a dedication to excellence in geosciences. A navigation bar includes links for "General Assembly 2013", "Divisions", "Membership", "Contact", and "Login". A "Division Pages" dropdown menu is also present. The main content area is titled "Meetings Calendar" and includes a "Show only EGU meetings" filter. A text box explains that users can export events as an iCalendar file or subscribe to an RSS feed. A yellow callout box with red arrows pointing to the "Meetings" menu item and the "Meeting Submission Form" link states: "If you are interested adding a workshop, meeting, or conference to this list please use the [Meeting Submission Form](#)." Below this, it notes that "General Assemblies and EGU Co-Sponsored Meetings are listed under [EGU meetings](#)." The "Meetings 2013" section lists events for April, including the "EGU General Assembly 2013" in Vienna, Austria (07-12 April 2013), the "45th International Liege Colloquium on Ocean Dynamics" in Liège, Belgium (13-17 April 2013), and "Basalt 2013 - Cenozoic Magmatism in Central Europe" in Görlitz, Germany (24-28 April 2013).

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-Sponsoring Programme

There are two opportunities to get your meeting sponsored by EGU

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.

<http://www.egu.eu/meetings/support-request/>

Jobs

We advertise geoscientific jobs for free at **www.egu.eu/jobs** add yours, or look for a new position

Outreach and Policy

- **Expertise database;** the new Science Policy Fellow, Sarah Connors, asks EGU members who want to become more involved with policy to register on the new EGU expertise database

www.egu.eu/policy/expertise

Contact email: policy@egu.eu; Website: www.egu.eu/policy

- **Public engagement grants;** Two excellent projects “to celebrate and recognise science communication in the Earth, planetary and space sciences” were selected for 2106, to be announced at 12:15 on Friday. Applications for 2017 are welcome (after November) at: <http://www.egu.eu/user-area/peg/>.

Any other business ?

- Administration: Send convener / officer e-mail address changes to me
- Advertisement for EGU Web-Calendar
- Advertisement for Topical Events (TE) activities, requesting support
- AOB ?