



April 2012 Newsletter of the AGU Near-Surface Focus Group

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Recent announcements of interest to the NS community (conferences, academic positions, graduate student opportunities etc.) can be found at the AGU [NS-Focus Group Web Page](#).

AGU NS Membership as of April 2012:

Primary affiliation: 793 members; Secondary: 2881 members

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1. Announcement: AGU 2012 Fall Meeting: session proposals and important dates

1.1. Call for 2012 Session Proposals Now Open

AGU is excited to announce that the call for session proposals for the 45th annual Fall Meeting is open as of 20 February. The deadline for submissions is 20 April. Additional information on submission policies and guidelines can be found on the [2012 AGU Fall Meeting Web site](#).

1.2. Important change of date: Fall Meeting is now 3-7 December

The dates for AGU's 2012 Fall Meeting have been changed to Monday, 3 December - Friday, 7 December, with pre-meeting events and workshops scheduled for Sunday, 2 December. Previously published deadlines will not change. The deadline for Session Proposals will remain 20 April; Abstract and Town Hall Submissions will open on 12 June and will close on 8 August; and Registration and Housing will open on 12 July.

2. Announcement: SEG-AGU Hydrogeophysics Workshop: abstract submission deadline extended to 12 April 2012 (from Jan van der Kruk)

SEG-AGU Hydrogeophysics Workshop, 8-11 July 2012, Boise State University, Boise, Idaho, U.S.A.

Extended abstract deadline: 12 April

Due to many requests the abstract submission deadline has been extended to 12 April

This workshop addresses current hydrogeophysical approaches for determining, predicting, and studying hydrologic properties and processes in both the saturated and unsaturated zones, at scales ranging from centimeters to watersheds. Through presentations of original research in our "General Sessions", and analysis and interpretation using shared datasets in our "Homework Sessions", the workshop will highlight the state of the science and critical future directions. In order to promote discussion, all accepted abstracts (for General and Homework Sessions) will be presented as posters, with a 3-5 minute oral presentation as an introduction. After viewing of posters, all sessions will reconvene for a panel-led discussion. General Sessions: 1) Characterizing Near-Surface Structure and Properties, 2) Advances in Monitoring and Time-Lapse Imaging of Subsurface Processes, 3) Thinking About Scaling Up: Geophysical Methods at the Watershed Scale. Homework Sessions: 1) Quantifying Noise and Uncertainty in ERT Data, 2) Tomography Bakeoff Using Borehole Seismic and GPR Datasets, 3) Designing the Perfect Field Experiment (For the homework abstracts it is sufficient to describe in the abstract what kind of approach is planned).

Registration Fees (*This assumes that we receive anticipated NSF funding.):

Student registration fee: \$95* for the first 20 students, otherwise \$395

Regular registration fee: \$345* for the first 60 participants, otherwise \$495

Note that the advanced registration opens after notification of acceptance (end of April) and the deadline is 7 June 2012. Late registration fee is \$595

We gratefully acknowledge the support of our Sponsors to date: Geometrics, GeoTomo, Mt. Sopris, Zonge Int'l, Vista Clara, Geotomographie, and Sensors & Software.

To download the homework datasets, visit the [Hydrogeophysics 2012 Homework Web](#)

[page.](#)

For more information, visit the [SEG-AGU 2012 Web site.](#)

3. Announcement: SEG Technical Program for 2012

2012 SEG Annual Meeting Abstracts Are Due on 4 April

Please consider submitting a contribution for the 2012 SEG Annual Meeting to be held in Las Vegas this fall (Nov.4-9). There are a number of topical sessions that are of direct interest to the near surface geophysics community, including:

- (i) Geophysics in Archeology
- (ii) Humanitarian Applications of Geophysics
- (iii) Near Surface Geophysics (general), and
- (iv) Hydrogeophysics

Extended abstracts of up to four pages should be uploaded to the [2012 SEG Annual Meeting website](#) by the 4 April submission deadline. Join us in Las Vegas to share your work with your peers and the broader geophysical community!

4. Reminder: 21st EM Induction Workshop, Darwin, 25-31 July 2012 (from Graham Heinson)

21st EM Induction Workshop, Darwin, 25-31 July, 2012: : [Early bird registration](#) ends 1 April 2012

I'd like to invite all members of the AGU Near-Surface Focus Group to the [21st EM Induction Workshop](#). The Workshop is the premier event for researchers around the world to exchange latest developments in the field of geophysical-electromagnetism. The Workshop is important for both the international research community and for sectors of industry and government that use EM methods for mineral, petroleum and geothermal energy exploration, groundwater and environmental resource evaluation, geohazard monitoring and many other applications. This will be the first time the Workshop has been held in Australia, and follows prior Workshops in Cairo in 2010 and Beijing in 2008.

The Workshop will be held over seven days, from 25-31 July 2012. Each morning a single stream of talks focuses on developments in EM induction, with review papers from invited, internationally-acclaimed scientists. Each afternoon is dedicated to a set of often

robust discussions over more than 200 posters on recent developments and latest controversies. Saturday, 28 July, will be a social day where all participants jump on a bus charter to the Litchfield National Park. Additionally, one evening we will visit the world-famous Mindil Beach Markets to watch the sunset over the ocean. On another evening the Darwin Deckchair Cinema will be ours for a movie night. These social events are as much a part of the meeting and the learning process as the more formal presentations and discussion.

A key part of the Workshop is the [invited reviews](#) from a range of acclaimed international scientists who are experts in their fields. These invited reviews provide a unique opportunity to hear the state-of-the-art in EM methods and applications. As in previous Workshops, these reviews will later be published in Surveys in Geophysics.

- Distortion and Phase Tensors: John Booker, University of Washington, USA
- Petrophysics: Anne Pommier, MIT, USA/Arizona State University, USA
- Joint Inversion: Eldad Haber, UBC, Canada
- High performance computing: Greg Newmann, Lawrence Berkeley National Labs, USA
- Groundwater and Airborne EM : Esben Auken, University of Aarhus, Denmark
- Geothermal Exploration: Gerard Munoz. Potsdam, Germany
- Petroleum Exploration: Kurt Strack, KMS Technologies - KJT Enterprises Inc, USA
- Mineral Exploration: Richard Smith, Laurentian University, Canada
- Tectonics: Kate Selway, University of Adelaide, Australia, and Yale, USA
- Anisotropy: Anna Marti, University of Barcelona, Spain

Darwin, in the northern part of Australia, is a wonderfully exotic destination for the Workshop in July 2012. Located about half-way between Singapore and Sydney, the dry-season in July offers temperatures of 20-30 °C in a tropical setting. This multicultural, young city has a population of 77,000, and offers fantastic opportunities for delegates to experience cultural, wildlife and sporting activities.

This event is proudly held under the auspices of the International Union of Geodesy and Geophysics (IUGG), International Association of Geomagnetism and Aeronomy (IAGA) and is hosted by the Australian Society of Exploration Geophysicists (ASEG).

[Deadline for Abstracts is 1 May](#); we look forward to seeing many of you in Darwin for the 21st EM Induction Workshop. Delegates, particularly students and early career scientists can also [apply for financial support](#) to attend the workshop; deadline is 1 April but this may be extended a few days.

Sincerely,

[Graham Heinson](#)

LOC Chair for the 2012 EM Induction Workshop
University of Adelaide

5. Reminder: European Meeting of Environmental and Engineering Geophysics
(from Roger Guerin)

Near Surface Geoscience 2012 - the 18th European Meeting of Environmental and
Engineering Geophysics

Under the heading of Near Surface Geoscience, the 18th European Meeting of Environmental and Engineering Geophysics is set up to highlight new achievements of geoscientific methods applied for the investigation of the shallow parts of the Earth and its surface. Through sharing ideas and intellectual cross-fertilisation, this event has the potential to benefit all geoscientists, including those whose primary focus is petroleum. The aim of this year is to broaden the scope of the Near Surface Geoscience Conference and thus to increase the interest of attendees and exhibiting companies.

Date: 3-5 September 2012

Papers deadline: 15 April 2012

Deadline for early registration: 15 July 2012

Location: Paris, FRANCE

Submit your paper on the [Near-Surface Geoscience 2012 website](#).

6. Open positions:

6.1. Tenurable Lectureship in Geophysics at the University of Adelaide, Australia (from
Graham Heinson)

School of Earth and Environmental Sciences
University of Adelaide, Adelaide, Australia
[Job Reference Number: 17302](#)

An exciting opportunity exists for a Tenurable Lecturer (Level B) to join the Geology and Geophysics group in the School of Earth and Environmental Sciences to complement our existing teaching and research strengths. We invite applications from candidates across

the field of geophysics related geoscience.

The University of Adelaide's Geology and Geophysics group has a dedicated and dynamic group of staff. It is one of the largest geosciences academic groups in the country and receives strong support from industry and government. As one of Australia's premier teaching and research groups in geosciences, we invite applications from candidates across the field of geoscience, but are particularly interested in applicants who can develop and apply electrical geophysical techniques to resource exploration and exploitation and provide a link between research disciplines in geology, geophysics and environmental geoscience. The successful appointee will have both a strong field-based and laboratory-based research background. While the preferred area of expertise is electrical geophysics, candidates in other areas of geophysics are also strongly encouraged to apply.

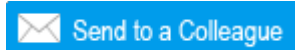
The position has an academic focus and candidates are expected to provide evidence of strong performance in, and a commitment to teaching. The successful applicant will be required to contribute substantially to undergraduate teaching by undertaking course development and coordination, and in leading field excursions.

The successful candidate will also have a record of high-impact, international research as demonstrated by peer-reviewed journal articles and other evidence of standing in the research community. He/she will be expected to apply for competitive external funding and attract and train PhD students.

To contribute material to the NS-letter send an e-mail to: [Xavier Comas](#)

DEADLINE: Material must be received 2 full business days prior to the first of each month.

GUIDELINES FOR SUBMISSIONS: All members are welcome to submit content of interest to the NS community. Please keep messages brief and provide contact information and (if available) a web address for additional information. AGU requests formatting of e-mail messages to be as simple as possible (no bold characters (use ALL CAPS instead), no color font, or other special formatting of text and paragraphs). E-mail attachments cannot be distributed.



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