



APRIL 2013 NEWSLETTER

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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: <http://sites.agu.org/nsg/>

Follow NSFG on Twitter @NS_AGU!

1. Session Proposals for 2013 Fall AGU Meeting: DUE APRIL 19 (from Xavier Comas)

The deadline for proposing sessions at the 2013 Fall Meeting is fast approaching and must be received by April 19 at 11:59 pm EDT (3:59am +1 GMT) . Please consider proposing a Near Surface (NS) session or co-sponsoring a session with other disciplines such as Tectonophysics, Seismology, Volcanology, Mineral & Rock Physics, Biogeosciences, Cryosphere, Geodesy, Geomag & Paleomag, Education, Hydrology, etc. Last year NS sponsored a total of 7 oral presentation sessions and 10 poster sessions.

To submit an oral session prepare a short abstract and provide the contact details for a minimum of two conveners. Submit online at:

<http://fallmeeting.agu.org/2013/scientific-program/session-proposal-guideline/>

Additional information on submission policies and guidelines can also be found in the link above.

2. NSFG OSPA Winners Fall 2012 (from George Tsoflias)

The AGU Near Surface Focus Group would like to thank all the student presenters for the high quality oral and poster presentations that they gave at the Fall meeting. We would also like to thank the Outstanding Student Paper Award (OSPA) judges for evaluating student presentations.

Two students were selected as winners of the Outstanding Student Paper Award:

Carolyn Tewksbury-Christle, University of Tennessee

Comparing Theoretical Predictions with Experimental Data Showing the Relationship Between Ground Penetrating Radar Amplitude Response and Fluid Salinity, Fracture Aperture, and Channel Width of a Fractured Bedrock Analog

Andrea Miller, University of Texas at Austin

Developing Age Models to Utilize High Arctic Coastal Sediments for Paleoclimate Research: Results from the Colville Delta and Simpson Lagoon, Alaska

Congratulations to Carolyn and Andrea for their excellent presentations!

You can see information about current and past OSPA winners on AGU's new online "Winners Circle" at

<http://membership.agu.org/ospa-winners/>

3. Call for Nominations for 2014 SEG Near Surface Honorary Lecturer (from John Bradford) **Nomination Deadline:** July 13, 2013

In 2012, SEG expanded the Honorary Lecture (HL) Program to include the first thematic lecturer in Near Surface (NS). After the inaugural NS lecture tour by Rick Miller in 2012, Valentina Socco will present the upcoming 2013 lecture titled: "*Surface wave analysis for near-surface characterization: Introduction, theme and variations.*"

Now is the time to submit nominations for the 2014 Honorary Lecturer! Please submit completed nomination forms to Judy Wall (jwall@seg.org). The nomination period ends on July 13, 2013. The NSG community needs to support the NS HL and the first step is through nominations.

The goals of the Honorary Lecture program are to recognize an individual's contributions to advancing the science and technology of geophysics, foster a sense of community amongst geophysicists by providing opportunities for local meetings and exchange of ideas, and encourage students by providing the opportunity to discuss scientific and career issues with a leading expert.

The lecturer should be an expert in their field, an effective representative of SEG and an outstanding communicator. The lecture topic should be current and of global interest. The HL committee seeks nominations for many outstanding individuals; if you know a candidate to represent the SEG NSG in 10 - 12 domestic and international cities in 2014, please submit a nomination form today.

4. Call for Nominations for Harold Mooney Award (from John Bradford) **Nomination Deadline:** June 1, 2013

The SEG-NSGS has two major awards: the Harold Mooney Award and the Frank Frischknecht Leadership Award. These awards provide a chance to honor those members of our community that have made outstanding contributions.

This year, the Mooney award will be presented at the NSGS Dinner and Reception at the SEG Annual Meeting in Houston. For the awards to be effective we need active participation from our membership to generate nominations. Please read the following award descriptions and submit your nomination by email to John Bradford (johnb@cgiss.boisestate.edu). The nomination form should contain the name, title and affiliation of the candidate along with a statement describing the reasons for the nomination. Nominations should be received by June 1, 2013 for full consideration.

Harold Mooney Award

The Harold Mooney Award is presented by the NSGS during the luncheon at the SEG Annual Meeting. The honoree is chosen by his or her peers through nominations from the membership and recommendation to the NSGS Executive Committee. The award is presented to an individual in recognition of long-term, tireless, and enthusiastic support of the near-surface geophysics community through education, outreach efforts, professional service, or development of opportunities with other professional disciplines that employ geophysics. For more information see this [link](#).

5. Do you really KNOW what SAGEEP MEANS? (from Juan Lorenzo and Bruce Smith)

Symposium on the Application of Geophysics to Engineering and Environmental Problems

SAGEEP allows a few hundred near-surface geophysicists to sleep, eat and meet conveniently under one roof over a whole week. This year SAGEEP was held in Denver, USA, March 17-21, 2013. There were over 220 presentations in 14 day-long sessions during the 3 week days with short courses on Agricultural Geophysics, Watershed Management, and MASW.

Noted speakers at this year's meeting included the "Best of 2012 EAGE from the European Near Surface Meeting", John Jansen, 2013 National Ground Water Association Distinguished Lecturer, SEG Honorary Lecturer Richard Miller who spoke on near-surface seismic field methods and processing and Roel Sneider, Chair of Geoscientists without Borders as well as Early Career Awardees. Equipment exhibitors gave outdoor demonstrations as well as hosting the Sunday Ice Breaker, and many coffee breaks. The joint AGU NSFG – EEGS session, Nuclear Magnetic Resonance Applications, was a great success with sessions going all day (thanks Kristina Keating and Elliot Grunewald).

We hope to see you in Boston in 2014!

6. UPCOMING MEETINGS AND DEADLINES

6.1 AGU 2013 Fall Meeting

The call for session proposals for the 46th annual Fall Meeting of the AGU is now open. All session proposals must be received by 19 April at 11:59 p.m. EDT/3:59 a.m.+1 GMT. Follow these links for additional information on [submission policies](#) and [guidelines](#).

Important dates for the 2013 Fall Meeting:

April 19: Session proposal deadline
June 17: Abstract submission site opens
July 15: Registration and Housing opens
August 6: Abstract submission deadline
Dec. 9-13: 2013 Fall Meeting

6.2 EAGE Near Surface Geoscience 2013 (Bochum, Germany)

Paper Deadline: April 15

Meeting Date: Sept.9-11

Under the heading of Near Surface Geoscience, the 19th 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.

The technical programme includes several oral and poster presentations on a broad selection of near surface geoscience related topics. For an overview of all topics, the venue, the workshops or other related topics please visit the [event's website](#) or read the [First Announcement](#). If you have more questions you can also contact us via nearsurface@eage.org!

6.3 Near Surface Geophysics Asia Pacific Conference (Beijing, China) (from John Bradford)

Meeting Date: July 17-19 July

Application Deadline: April 11

The continuing growth in influence of near surface geophysics has brought this area of geophysics to the forefront. As a result, in an unprecedented move, a Near Surface Geophysics Asia Pacific Conference was approved by five international geophysical societies.

This conference will focus on near-surface issues within the Asia Pacific region and provide a world-class forum to your new technical advances, developments and applications in near-surface geophysics.

We welcome submission of papers covering theoretical developments and case histories in the broad topic of near surface geophysics, including:

- Shallow Seismology
- Ground Penetrating Radar
- Electric, EM and NMR Methods
- Engineering Geophysics
- Mining and Geothermal Exploration
- Remote Sensing and Lidar Applications
- Hydrogeophysics
- Rock and Soil Properties
- Borehole Geophysics
- Modeling and Inversion
- Geophysical Instruments

Important Dates:

11 April 2013 - Abstract & application submission deadline

13 June 2013 - Advance registration deadline

For submission and registration details go to

<http://www.seg.org/events/upcoming-seg-meetings/nsgapc13>

6.4 11th SEGJ International Symposium (Yokohama, Japan)

Abstract Deadline: April 30

Full Paper Deadline: June (tentative)

Meeting Date: Nov.18-20

Meeting Website: <http://www.segj.org/is/11th/>

Conference Theme:

Geophysics for establishing sustainable secure society Regular & organized sessions and conveners:

The Society of Exploration Geophysicists of Japan (SEGJ) is holding the 11th SEGJ International Symposium on November 18-20, 2013, in Yokohama, Japan. Application of the travel support award to young researchers from overseas, who is under 35 years old and has not received the award before) is expected to be submitted with the full paper submission.

6.5 Special Session on Near-Surface EM Induction at IAGA (from Mark Everett)

Meeting Location: Merida, Mexico
Meeting Date: August 26-31, 2013
Meeting Website: www.iaga2013.org.mx

Session 1.4 – Near surface applications of electromagnetic induction

Electromagnetic geophysical methods have been applied in mapping the electrical conductivity structure of the ground, particularly for near surface investigations. Examples include contaminated unconfined aquifers associated with landfills, landslides, seawater intrusion in coastal areas, the detection of cavities, and the detection of sinkholes, caves in karstic areas, mineral exploration as well as archaeological studies. With the development of new technologies, new instruments, and improved data-processing, electromagnetic methods are able to image shallow structures with applications to many environmental and near surface problems. We would like to invite contributions related to the issues mentioned above, including case studies, the development of novel applications of electromagnetic methods, and the joint inversion of electromagnetic data with other geophysical datasets.

Convener: Gad El-Qady gadosan@nriag.sci.eg, gadosan@yahoo.com, National Research Institute of Astronomy and Geophysics (NRIAG), P. O. Box: 227, Helwan, 11722, Cairo, Egypt

Co-Convener: Mark Everett, mark.e.everett@gmail.com, Department of Geology and Geophysics, MS 3115, Texas A&M University, College Station, Texas 77843-3115

Important Dates:

March 31, 2013. Grant application deadline --> abstract submission required!!!

April 13, 2013. Abstract submission deadline.

April 30, 2013. Decision about grants.

May 31, 2013. Reduced rate registration.

6.6 3rd Global Workshop on Proximal Soil Sensing (from Barry Allred)

The increasing awareness of soil as a limited resource, the threats on soil and the challenge to increase soil productivity makes it evident that there is great need to better understand soil variability in space and time. Proximal soil sensing is one answer to this demand. Consequently, this young and quickly evolving discipline has been recently acknowledged as a new working group within the International Union of Soil Sciences.

The Third Global Workshop on Proximal Soil Sensing 2013, May 26th to 29th, brings together researchers from various disciplines, including soil science, agricultural engineering, geophysics, spectroscopy, agronomy, spatial statistics, as well as commercial entities involved in the development and use of proximal sensors.

The focus of the meeting will be on:

- Multi-sensor systems
- Data fusion
- Application of proximal soil sensing data

For more information see the conference website:

<http://www2.atb-potsdam.de/Hauptseite-deutsch/ATB-aktuell/Veranstaltungen/GWPSS2013/start.htm>

7. Position Announcements

7.1 Geological Survey of Denmark and Greenland (from Esben Auken)

The Geological Survey of Denmark and Greenland has an opening for a senior research scientist in geophysics. Very interesting the emphasis is on mapping of ground water resources and airborne electromagnetic.

The full announcement can be found here:

<http://www.earthworks-jobs.com/geoscience/geus13032.html>

7.2 Post-doctoral Teaching Fellow (from George Tsouflias)

The University of Kansas College of Liberal Arts and Sciences announces the availability of a postdoctoral teaching fellows program in the geosciences as part of their Course Transformation Initiative in the Natural Sciences and Mathematics and Social and Behavior Sciences. Postdoctoral teaching fellows will serve a three year term, and will be based in academic departments. Eligibility is limited to applicants who have received the Ph.D. For a complete announcement and to apply online, go to <https://employment.ku.edu/jobsearch> and search for keyword: 00206230. The following documents should be attached to your application profile: letter of application, *curriculum vitae* and a teaching statement that summarizes the candidate's geosciences teaching experience, innovations in enhancing student learning, and philosophy for improving student engagement and learning in large geosciences courses. Applicants must provide list of five referees and arrange to have three of the referees submit letters of recommendation that evaluate pedagogical potential/achievement and teaching sent to: Postdoctoral Teaching Fellows Search, c/o Department of Geology, 1475 Jayhawk Blvd., 120 Lindley Hall, The University of Kansas, Lawrence, KS 66045, or electronically via email: Olcott@ku.edu.

Initial review of applications begins 4/15/13 and continues as long as needed to identify a qualified pool. Equal Opportunity Employer M/F/D/V.

7.3 Post-Doctoral Fellowship and PhD Studentship in Carbon Sequestration Research at the Dublin Institute for Advanced Studies

The Dublin Institute for Advanced Studies invites applications for a 2-year Post-Doctoral Fellowship and a 4-year PhD studentship to undertake carbon sequestration research within an exciting, new research initiative – [IRECCSEM](#). IRECCSEM aims to develop, through innovative research, an understanding of Ireland's (all-island) carbon sequestration potential through integrated modelling of new and existing geophysical and geological data, supported by the development of new multivariate modelling and inversion software tools. The research will be spearheaded by electromagnetic methods, principally magnetotellurics.

For the Fellowship we are seeking geophysicists experienced in either (i) magnetotellurics or (ii) carbon sequestration research, and preferably both, with skills in one or more of the following areas: multivariate data analysis; numerical and inverse code development; investigation and modelling of geophysical and petrophysical relationships (particularly porosity/permeability); geophysical data modelling. Extensive software programming knowledge and experience essential.

For the studentship, we are seeking highly motivated, numerate candidates with excellent academic records (minimum ECTS B grade, Upper-second) from a wide range of backgrounds (geophysics, geology, physics, applied mathematics and computational sciences). Experience in one or more of the following areas would be advantageous: geophysical data modelling (particularly magnetotellurics and controlled source EM), multivariate data analysis, and development of numerical inversion codes. Previous experience in carbon sequestration research, although beneficial, is not essential. Proficiency in English is required. DIAS uses the same minimum criteria as UCD, which can be found [online](#).

Both posts require participation in IRECCSEM's extensive field data acquisition programme over two Summers and provide for international travel to major conferences and broad scientific collaboration.

The nominal start dates for the positions are September 1st 2013 for the student, and April 1st 2014 for the Fellow, but these are negotiable.

Application Process:

Email the following information to geosecretary@cp.dias.ie:

- (1) cover letter outlining your interest in the project (for PDF, highlight relevant experience and accomplishments),
- (2) complete CV (with copies of publications or manuscripts submitted),
- (3) academic transcripts,
- (4) contact details of minimum three referees, and
- (5) for PhD non-English first language applicants only, certification of English language proficiency, with IRECCSEM-PDF or IRECCSEM-PhD in the subject line as appropriate.

The Fellowship will be paid on a two year, fixed-term contract starting at €33,975 plus benefits, with an annual increment. The studentship comes with a tax-free stipend of €18,000 plus fees for four years.

Applications received by 15 April 2013 will be considered first; the positions will remain open until filled. For greater details and more information, please view initially the [IRECCSEM web site](#), and then contact Professor Alan G. Jones (alan@cp.dias.ie).

TO CONTRIBUTE MATERIAL TO THE NS-NEWSLETTER SEND AN E-MAIL TO:

Stephen Moysey (smoysey@clermson.edu)

DEADLINE: Material must be received 4 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.

GET YOUR MESSAGE OUT NS MEMBERS FASTER:

You will no longer need to wait until the end of the month to share an important or time-sensitive contribution to the newsletter. Appropriate contributions to the newsletter will also be shared ASAP via Twitter. Please note that only NSFG members that follow [@NS_AGU](https://twitter.com/NS_AGU) will receive Twitter announcements, so make sure that you sign up!