



AGU Near-Surface Focus Group Newsletter: November 2012

November 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 November 2012:

Primary affiliation: 793 members; Secondary: 2881 members

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1. AGU Fall Meeting 2012:

1.1. Outstanding Student Paper/Poster Award judges needed for Near Surface Fall meeting sessions (from George Tsoflias)

Volunteer to be a judge for student papers and posters that will be presented at the NS sessions you plan to attend at this Fall meeting. Student presentations have been consistently of the highest quality and have earned the distinction of AGU Outstanding Student Presentations. We are asking for your help again this year in volunteering to be an OSPA judge and ensuring that deserving work by NS students is recognized.

If you would like to serve as an OSPA judge (even in one NS session, oral or poster), please email [George Tsoflias](#), [Xavier Comas](#), or [Lu Pellerin](#) by 20 November.

Thank you for the support.
George, Xavier, Lu

1.2. Near-Surface Geophysics final session schedule

Monday, 3 December 2012:

NS13A: Applied Geophysics in the Global Marketplace

Convener(s): Jerry McJunkin (Heritage Group) and Louise Pellerin (Green Engineering, Inc)

1:40 PM - 6:00 PM; Hall A-C (Moscone South)

NS13B: Near Surface Geophysics General Contributions I Posters

Conveners: Chester J Weiss, (Virginia Tech)

1:40 PM - 6:00 PM; Hall A-C (Moscone South)

Tuesday, 4 December 2012:

NS23A: Near Surface Geophysics General Contributions II Posters

Conveners: Chester J Weiss, (Virginia Tech)

1:40 PM - 6:00 PM; Hall A-C (Moscone South)

Wednesday, 5 December 2012:

NS31A. NS31A. Developments and Practical Applications of the Multichannel Seismic-Data Surface-Wave Analysis Method I Posters

Convener(s): Richard Miller (University of Kansas), Julian Ivanov (Kansas Geological Survey) and Georgios Tsoflias (University of Kansas)

8:00 AM - 12:20 PM; Hall A-C (Moscone South)

NS31B. NS31B. Joint Inversions and Other Strategies to Integrate Multidisciplinary Geophysical Data I Posters

Convener(s): Bjvrn Heincke (GEOMAR), Peter Lelièvre (Memorial University of Newfoundland) and Max Moorkamp (University of Leicester)

8:00 AM - 12:20 PM; Hall A-C (Moscone South)

NS31C. NS31C. Shallow Seismology of the Vadose-Saturated Zone Posters

Convener(s): John Lane (USGS), Juan Lorenzo (Louisiana State Univ) and Nedra Bonal (Sandia National Labs)

8:00 AM - 12:20 PM; Hall A-C (Moscone South)

NS33A. NS33A. Near-Surface Geophysics General Contributions III

Convener(s): Chester Weiss (Virginia Tech) and Mark Everett (Texas A & M Univ)

1:40 PM - 3:40 PM; 2018 (Moscone West)

NS34A. NS34A. Joint Inversions and Other Strategies to Integrate Multidisciplinary Geophysical Data II

Convener(s): Bjvrn Heincke (GEOMAR), Peter Lelièvre (Memorial University of Newfoundland) and Max Moorkamp (University of Leicester)

4:00 PM - 6:00 PM; 2018 (Moscone West)

Thursday, 6 December 2012:

NS41A. NS41A. Advances in Airborne Electromagnetics I Posters

Convener(s): Paul Bedrosian (U.S. Geological Survey) and Bruce Smith (U.S. Geological Survey)

8:00 AM - 12:20 PM; Hall A-C (Moscone South)

NS41B. NS41B. Geophysical Methods for Groundwater Evaluation and Management I Posters

Convener(s): Rosemary Knight (Stanford Univ) and John Lane (USGS)

8:00 AM - 12:20 PM; Hall A-C (Moscone South)

NS43A. NS43A. Geophysical Imaging of Fractures and Fluid Flow: Advancing From Detection to Measurement I
Convener(s): Georgios Tsoflias (University of Kansas) and Matthew Becker (Cal State Long Beach)
1:40 PM - 3:40 PM; 2018 (Moscone West)

NS44A. NS44A. Geophysical Methods for Groundwater Evaluation and Management II
Convener(s): Rosemary Knight (Stanford Univ) and John Lane (USGS)
4:00 PM - 6:00 PM; 2018 (Moscone West)

Friday, 7 December 2012:

NS51A. NS51A. Exploring the High-Resolution Record of Surface Processes in Near-Shore and Inshore Water Bodies Posters
Convener(s): Mark Vardy (University of Southampton) and Nicolas Waldmann (University of Haifa)
8:00 AM - 12:20 PM; Hall A-C (Moscone South)

NS51B. NS51B. Geophysical Imaging of Fractures and Fluid Flow: Advancing From Detection to Measurement II Posters
Convener(s): Georgios Tsoflias (University of Kansas) and Matthew Becker (Cal State Long Beach)
8:00 AM - 12:20 PM; Hall A-C (Moscone South)

NS52A. NS52A. Applied Geophysics in the Global Marketplace II (Video On-Demand)
Convener(s): Jerry McJunkin (Heritage Group) and Louise Pellerin (Green Engineering, Inc)
10:20 AM - 12:20 PM; 3002 (Moscone West)

NS53A. NS53A. Developments and Practical Applications of the Multichannel Seismic-Data Surface-Wave Analysis Method II
Convener(s): Richard Miller (University of Kansas), Julian Ivanov (Kansas Geological Survey) and Georgios Tsoflias (University of Kansas)
1:40 PM - 3:40 PM; 2018 (Moscone West)

NS54A. NS54A. Advances in Airborne Electromagnetics II
Convener(s): Esben Auken (University of Aarhus) and Jared Abraham (U.S. Geological Survey)
4:00 PM - 6:00 PM; 2018 (Moscone West)

1.3. Hydrogeophysics final session schedule

Wednesday, 5 December 2012:

H33A. H33A. A Vision for the Future: Exploring the Value of Geophysics in Hydrology I Posters
Convener(s): Kamini Singha (Penn State University), Stephen Moysey (Clemson University) and Niklas Linde (University of Lausanne)
1:40 PM - 6:00 PM; Hall A-C (Moscone South)

H33D. H33D. Hydrogeophysics: Lab to Field Scale Characterization I Posters
Convener(s): Steven Meyerhoff (Colorado School of Mines), Andrew Parsekian (Stanford University) and Joseph Doetsch (Berkeley Lab)
1:40 PM - 6:00 PM; Hall A-C (Moscone South)

Thursday, 6 December 2012:

H41K. H41K. Hydrogeophysics: Lab to Field Scale Characterization II

Convener(s): Steven Meyerhoff (Colorado School of Mines), Andrew Parsekian (Stanford University) and Joseph Doetsch (Berkeley Lab)
8:00 AM - 10:00 AM; 3020 (Moscone West)

1.4. Near Surface Geophysics Focus Group Luncheon (ticket required)

The NS luncheon at the Fall AGU meeting will be held from 12:30-13:30 on Tuesday, 4 December at the San Francisco Marriott Marquis, Golden Gate C3. This event is the opportunity to learn about NS activities, engage with your fellow NS members and the NS officers, and provide feedback on how the focus group can support the needs of the NS community. This is a ticketed event and seating is limited. We strongly encourage you to purchase lunch tickets in advance when you register online for the meeting.

Free student tickets to the Near Surface Geophysics Focus Group Luncheon: We have 30 student tickets available to the NSFG luncheon at AGU on 4 Dec 2012 12:30 pm - 1:30 pm. Please contact [Seth Campbell](#) to request a luncheon ticket on a first come first serve basis for NSFG student members. Include whether NSFG is your primary or secondary affiliation with your lunch ticket request. Non-members are welcome to request a ticket if they have an interest in joining NSFG however, priority will be given to current NSFG student members. Please note that tickets will not be available at the door and arrangements must be made prior to 20 November to gain access to the NSFG luncheon.

1.5. Near Surface Focus Group Hydrogeophysics social

Mark your AGU calendar for the traditional Hydrogeophysics & NS FG social on Monday evening at the Hotel Utah.

2. Report: AGU Elections results (from Lu Pellerin)

NS FG had their first election and excellent candidates stood for office: president elect is Frederick Day-Lewis, USGS, and secretary is Stephen Moysey, Clemson University. We congratulate Fred and Stephen and thank Chet Weiss and Xavier Comas for all their service to NS FG. George Tsoflias, University of Kansas is the incoming president. At the Board level the NS FG will be well represented by Carol Finn, USGS, president elect, and Susan Webb, University of Witwatersrand, international secretary. Union-wide 21.9% of eligible voters participated in the election.

3. Reminder: SAGEEP 2013 call for abstracts deadline 16 November 2012 (from Bruce Smith)

SAGEEP 2013 The deadline for submission of a 300 word abstract is 16 November 2012. Authors of accepted abstracts (notification December 3) will have the option to submit an extended abstract (~1500 words) or a Near Surface Geophysical Letter (~4,000 words and 4 figures). The deadline is 14 January 2013 for submission of final revised abstracts and provisional extended abstracts or Near Surface Geophysical Letters. See the [EEGS Web site](#) for more information.

4. Call for papers: IWAGPR2013 (from Xavier Dérobert)

The next international workshop on advanced ground-penetrating radar (IWAGPR2013) will be held on 2-5 July 2013 at Nantes, France.

This International Workshop on Advanced Ground Penetrating Radar is the 7th of a biannual series of international scientific symposia devoted in advancements in GPR techniques and applications.

Deadline for paper submissions is 15 December 2012. Notification of acceptance is 15 February 2013.

Further announcements will soon be posted. In the meantime feel free to contact [Nathalie Nedellec](#) for further questions.

With our best regards
On the behalf of the local committee

Xavier Dérobert

5. Report: SEG-AGU Hydrogeophysics Workshop (from Jan van der Kruk)

From 8-11 July 2012, the Hydrogeophysics workshop was held at Boise State University, Boise, Idaho, U.S.A. The workshop sponsored by the SEG Research Committee and supported by AGU addressed 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. Rosemary Knight (Stanford University), James Irving (Lausanne University), Rob Jacob (Bucknell University), Lee Liberty (Boise State University), Kamini Singha (Colorado School of Mines), and Jan van der Kruk (Research Center Jülich, Germany), organized the workshop with sponsorship from U.S. National Science Foundation, Geometrics, GeoTomo, Mt. Sopris, Zonge Int'l, Vista Clara, Geotomographie, Sensors & Software, Advanced Geosciences Inc. and Geonics. Over 60 scientists from academia, government and industry attended from countries representing the Americas, Europe, Africa and Australia.

The three main sessions were focused on "characterization of the Near-surface Structure and Properties", "Thinking about scaling up: Geophysical methods at the Watershed Scale", and "Advances in Time-Lapse Monitoring". In addition a Tomography Bake-Off session was held. Here, six different investigators independently analyzed a coincident GPR and Seismic field dataset acquired at the Boise Hydrogeophysics Research Site and the results were compared with control data obtained from neutron-neutron probe surveys. Almost all presentations were first introduced by a 4 minute oral presentation after which the posters could be viewed and finally a panel-led discussion was held to discuss the main results.

A wide range of topics were presented including theoretical developments, system developments, the newest processing and inversion approaches, uncertainty analysis, and several case studies. During the panel-led discussions that followed the poster presentations the recent scientific advancements were discussed in more detail and future research areas were discussed. The workshop was a great success and provided a unique possibility for participants to exchange ideas about the advances in their work and discuss their results.

[SEG-AGU 2012 Web page](#)

6. Reminder: EEGS/Geonics Early Career Award (from Jonathan Nyquist)

Nomination Deadline: 30 November 2012

The Environmental and Engineering Geophysical Society and Geonics Limited are pleased to announce that nominations are now open for the 2013 EEGS / Geonics Early Career Award, which acknowledges academic excellence and encourages research in near-surface geophysics. The award is presented annually at SAGEEP to

- a full-time university faculty member who, by the nomination deadline; is
- fewer than five years beyond the starting date of his or her current academic appointment;
 - within ten years post-completion of his or her PhD.

The award acknowledges significant and ongoing contributions to the discipline of environmental and engineering geophysics. The recipient may have any specialty that is recognized as part of the environmental and engineering geophysics discipline. This specialty is not restricted to departments, colleges, or geographic regions (international applicants are welcome). A committee of four or five members (two or three university faculty, one corporate or consulting representative, and one government laboratory representative), appointed by the EEGS Board, is responsible for selecting the awardee.

The award carries the following benefits:

- Free registration to the SAGEEP conference at which the award will be presented
- A plaque, suitable for display
- A \$1000 cash award
- A 30-minute time slot to present the awardee's research and vision at SAGEEP
- The citation and, if available, the awardee's presentation published in FastTIMES and distributed to cooperating societies

The awardee is expected to be present during the EEGS Luncheon at SAGEEP 2013 in Denver, Colorado.

Nominations should be sent electronically to:

Dr. [Jonathan Nyquist](#), Chair of the Early Career Award Committee
Temple University
1901 N 13th Street, Philadelphia, PA 19122-6081
Phone: 215-204-7484

Nomination packages must include:

- A comprehensive vitae for the candidate
- A letter of recommendation outlining the candidate's qualifications for the award
- Copies or PDF files of three representative publications

7. Reminder: Post-AGU short course: Launching an Academic Career (from Kamini Singha)

Instructors: Jeff McDonnell, Mike Gooseff, Brian McGlynn, Kamini Singha and Thorsten Wagener

Date: Sat Dec 8th (Day immediately following AGU week)

Location: Holiday Inn Golden Gateway

Fee: \$75

Students: 75 max

Morning Session: How to get an academic job (PhD and post doc prep, The ad, CV, application, interview, negotiation)

Afternoon Session: How to get tenure (what matters, how administrators think, grants, teaching, service, ethics)

Registration via the [OSU Conference Center Web site](#).

Additional Information: [Carly Weber](#) | Registration and Conference Manager|OSU Conference Services|200 LaSells Stewart Center, Corvallis, OR 97331|P: 541-737-8021

8. Open positions:

8.1. Geophysics Lectureship at Oxford

The Department of Earth Sciences, University of Oxford is advertising three university lectureships, one of them in Geophysics. Please visit the [Department of Earth Sciences job listing page](#) to get full details.

The closing date for applications is 16 November 2012

8.2. Postdoctoral scientist in biogeophysics Rutgers University, Newark

The Near Surface Geophysics group at Rutgers University (Newark, NJ) seeks a postdoctoral scientist to work on a project in biogeophysics. The research project is focused on understanding the nuclear magnetic resonance (NMR) response associated with geochemical processes in the subsurface and is part of a project to develop novel NMR instrumentation for monitoring contaminant remediation. The postdoctoral scientist will design and conduct both laboratory and field experiments and perform data analysis. The project is interdisciplinary so applicants that have experience in one or all of geophysics, geochemistry and/or microbiology are preferred. Experience with NMR is preferred but not required. The initial appointment is for 1 year but is extendable subject to availability of funds. Review of applicants will begin 15 November 2012 and will continue until the position has been filled. To discuss this position further or to apply please contact [Kristina Keating](#).

8.3. Two PhD positions in Hydrogeophysics at Florida Atlantic University

The Department of Geosciences at Florida Atlantic University (FAU) has two openings for doctoral students in the field of Hydrogeophysics. The selected students will participate in research to investigate carbon dynamics in the Everglades using hydrogeophysical techniques. Each position is funded at the research assistantship level for three years and the starting date is January 2013. The successful candidates should ideally hold a MSc degree in geophysics, physics, environmental sciences or related discipline. Experience with hydrogeophysical methods is preferred. The two projects have an important outdoors component, for which fieldwork skills are desirable. The selected students will join the recently opened FAU/USGS/UF joint facility in the Davie Campus of FAU which combines state-of-the-art facilities for Everglades science research to support both laboratory and field-based studies in the Everglades.

Applicants should send a cover letter explaining their fit and motivation for the position, curriculum vitae and the names, telephone numbers, and e-mail addresses of two referees to [Xavier Comas](#). Review of applications will begin 5 November 2012 and until positions are filled.

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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2000 Florida Avenue, NW, Washington, DC 20009-1277