

February 2013 Newsletter of the AGU Near-Surface Focus Group

1. Near Surface Fall 2012 AGU Meeting Update
2. Nominations for AGU Honors now accepted: Deadline March15
3. Follow NSFG @NS_AGU on Twitter to get announcements BEFORE the deadline!
4. Upcoming Meetings and Deadlines
 - 4.1 AGU Meeting of the Americas: Abstracts Due Feb.6
 - 4.2 AGU Meeting of the Americas: Student & Early Career Travel Grants Deadline Feb.15
 - 4.3 Cutting Edge Workshops (Students & Early Career): Application Deadline March 8
 - 4.4 STUDENTS: SAGE Applications Now Open - Deadline March 29
5. Position Announcements
 - 5.1 Associate Geophysicist, Illinois State Geological Survey
 - 5.2 Tenure-track Position in Hydrogeophysics, University of Wyoming
 - 5.3 Post-Doc in Environmental Geophysics, U. Western Brittany, France

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. Near Surface Fall 2012 AGU Meeting Update (from George Tsoflias and Lu Pellerin)

NSFG continued to grow its presence at the Fall meeting with 7 oral and 10 poster sessions (compared to 6 and 7 respectively in 2011) for a total of 160 near-surface presentations. The AGU council meeting on Sunday, December 2, was attended by outgoing President Lu Pellerin, incoming President George Tsoflias and President-Elect Fred Day-Lewis. The NSFG executive committee meeting was held on Monday evening followed by the annual joint social with Hydrogeophysics colleagues at the Hotel Utah. At the NS business luncheon on Tuesday, December 4, Lu Pellerin gave an update on the state of the Focus Group and on new AGU initiatives, such as the “Thriving Earth Exchange” that will bring together stakeholders from around the world who are seeking help on specific problems, sponsors willing to invest in solutions, and problem solvers from our membership willing to address these needs. Approximately 80 members were present at the luncheon, including 30 students that attended at no cost thanks to the continued support and generosity of NSFG sponsors:

- Geometrics
- Iris Instruments
- Sensors & Software
- Zonge

=====

2. Nominations for AGU Honors are now accepted - Deadline: March15 (from George Tsoflias)

The nomination period for 2013 AGU Fellows, Awards and Medals closes on March 15 (<http://sites.agu.org/honors/>). Consider nominating a colleague for AGU Honors. In addition to Fellows (<http://sites.agu.org/honors/fellows/>), there are 22 Union awards, medals and prizes (<http://sites.agu.org/honors/awards-medals-prizes/>). Many of our colleagues deserve the recognition but need your nomination. Nominations can be submitted online at the AGU web page. NSFG has formed an Awards Nomination Committee chaired by Past-President Lu Pellerin (pellerin@ak.net), Sarah Kruse

(skruse@usf.edu) and Jan van der Kruk (j.van.der.kruk@fz-juelich.de). Please contact me (tsofilias@ku.edu) or the committee members if you have any suggestions or questions.

=====

3. Follow NSFG on Twitter to get announcements BEFORE the deadline! (from Stephen Moysey)

You can now follow NSFG on Twitter @NS_AGU!

Reasons for starting this service for our members include:

- Providing timely updates on abstract and other deadlines for conferences and other events
- Spreading news about grants and possible funding opportunities relevant to NS
- Sharing information and tools helpful to early career scientists
- Sending alerts about job and academic opportunities
- Making community announcements relevant to the NSFG

To start receiving Tweets from us, just sign up at www.twitter.com and start following @NS_AGU! Please note that only NSFG members that choose to follow @NS_AGU will receive Twitter announcements from the focus group, so make sure that you sign up!

=====

4. UPCOMING MEETINGS AND DEADLINES

4.1 AGU MEETING OF THE AMERICAS (Cancun, Mexico)

Abstract Deadline: Feb.6
Meeting Date: May 14-17, 2013
Meeting Website: <http://moa.agu.org/2013/>

NSFG Sponsored Sessions:

NS01: Near Surface Geophysics General Contributions
Convener: Rolan Martin (CNRS)

NS02: Mining Geophysics in the Americas – New Developments and Perspectives
Conveners: Jaime Fucugauchi (UNAM) and Israel Hernandez-Perez (Servicio Geologico Mexicano)

NS03: Geophysical Imaging of Increasingly Complex Geologic Media – Recent Advances
Conveners: Roland Martin (CNRS) and Jose Carlos Ortiz Aleman (Instituto Mexicano del Petroleo)

4.2 AGU MEETING OF THE AMERICAS –TRAVEL GRANTS

Application Deadline: Feb.15
Application Website: <http://moa.agu.org/2013/students/>

STUDENTS – Forget the crowds at spring break...Apply for a travel grant to attend the Meeting of the Americas in Cancun, Mexico! What could be better than talking about data processing over pina coladas? You must submit an abstract to be eligible to apply, so see above abstract deadline.

EARLY CAREER – Berkner Fellowships for travel are available to AGU members under the age of 35 who are residents of countries designated by the World Bank as “low” or “low-middle” income per capita (88 countries are eligible). You must submit an abstract to be eligible to apply, so see above abstract deadline.

4.3 CUTTING EDGE WORKSHOPS (APPLICATION DEADLINE: MARCH 8)

The workshops below are an excellent opportunity for students interested in academia and early career faculty to get a quick start in their careers. These workshops are highly recommended!

Preparing for an Academic Career in the Geosciences (Grad Students and Post-docs)

July 7-10, 2013 - University of Colorado, Boulder, CO

Conveners: Heather Macdonald, David Budd, and Rachel O'Brien

Application deadline: March 8, 2013

Website: <http://serc.carleton.edu/NAGTWorkshops/careerprep2013/index.html>

Early Career Geoscience Faculty: Teaching, Research, and Managing Your Career (Pre-tenure Faculty)

July 28-August 1, 2013, with an optional visit to NSF August 2 – AGU Headquarters, Washington DC

Conveners: Rachel Beane, Michael Wyssession, and Richard Yuretich

Application deadline: March 8, 2013

Website: <http://serc.carleton.edu/NAGTWorkshops/earlycareer2013/index.html>

4.4 STUDENTS: SAGE Applications Open - Deadline March 29

Program Date: June 17 – July 11

Application Deadline: March 29

Website: <http://www.sage.lanl.gov/>

SAGE, the Summer of Applied Geophysical Experience, is a unique educational program designed to introduce students in geophysics and related fields to "hands on" geophysical exploration and research. The program emphasizes both teaching of field methods and research related to basic science and a variety of applied problems.

What Will I Gain from SAGE?

- LEARN seismic reflection & refraction techniques.
- GET to the gravity of the matter.
- FAMILIARIZE yourself with electromagnetic methods.
- APPLY geophysics to environmental or archaeological problems.
- MEET other students with similar geophysical interests.
- INTRODUCE yourself to career opportunities - make contacts with industry representatives.
- STUDY the tectonics of an active continental rift.

This is a GREAT opportunity to learn a lot about geophysics from a wonderful group of people!

=====

5. Position Announcements

5.1 Associate Geophysicist, Illinois State Geological Survey (from Tim Larsen)

We are seeking an individual to develop a research and service program in airborne, time-domain electromagnetic (TEM) induction as part of our established program in high-resolution, shallow geophysics. The position is a fully-funded, non-faculty, academic professional, research position within the Hydrogeology and Geophysics Section of the Illinois State Geological Survey, a division of the Prairie Research Institute at the University of Illinois at Urbana-Champaign. This individual will be responsible for designing, initiating, and completing original research in high-resolution geophysics, particularly for addressing problems in Quaternary geology, hydrogeology, and geologic mapping, together with occasional focus on more general problems in characterization of near-surface geology. Primary research emphasis will focus on airborne TEM, including topics in collection, inversion and analysis of these data. Secondary responsibilities will include periodic support of institutional needs through collection, processing and interpretation of high-resolution, shallow seismic reflection data, magnetic data and resistivity data in support of an established 3D geologic mapping program. The successful candidate will be expected to excel in small team research, working as both PI and supporting collaborators in multi-disciplinary research, and will be proficient in effectively communicating results and interpretations of those investigations in a variety of formats and venues.

Qualifications: The position requires an individual able to develop and lead a program in basic and applied research and service in shallow geophysics. Must have a degree in geology, geophysics, or related discipline with a minimum of seven (7) years related industry and/or research experience post-bachelor's degree. Experience designing and applying ground-based and airborne high-resolution geophysical data acquisition, processing, and interpretation procedures to near-surface problems with an emphasis on electrical, electromagnetic, seismic reflection, and magnetic methods. Knowledge of glacial geology and sedimentology.

To ensure full consideration, applications should be received by February 15, 2013; however, the position will remain open until filled. To apply, all candidates must submit an online profile through jobs.illinois.edu by the close of the posting period. Qualified candidates must upload a letter of application which details qualifications noted above, résumé, and the names, addresses, phone numbers, and e-mail addresses of three professional references. All requested information must be submitted for your application to be considered. Incomplete information will not be reviewed. For further information please contact Lori Walston-Vonderharr, Human Resources, Illinois State Geological Survey, at lwalston@illinois.edu or 217-244-2401.

The University of Illinois is an Affirmative Action, Equal Opportunity Employer.
www.inclusiveillinois.illinois.edu

5.2 Tenure-track Position in Hydrogeophysics, University of Wyoming (from Steve Holbrook)

The University of Wyoming invites applications for a tenure-track position in hydrogeophysics at the assistant professor level. This is a joint position (#4866) between the Department of Geology and

Geophysics and the Department of Civil and Architectural Engineering. We seek a hydrogeophysicist with expertise in the development and use of near-surface geophysical techniques for hydrological problems and interested in integrative research. Of particular interest are emerging applications in electrical and electromagnetic geophysics such as complex resistivity and magnetic resonance sounding. This position is part of a growing emphasis on watershed science exemplified by the new Wyoming Center for Environmental Hydrology and Geophysics (WyCEHG; uwo.edu/wycehg). This interdisciplinary, NSF-funded center houses new facilities dedicated to near-surface geophysics and surface/subsurface hydrology. The successful hire will have an earned PhD in geophysics, civil engineering, or a closely related field at the time of appointment, will have the potential to develop an internationally recognized, externally funded research program, will integrate his/her research with the goals of WyCEHG and will provide academic support to the Ph.D. Program in Hydrology (WRESE; uwo.edu/wrese).

The University's policy has been, and will continue to be, one of nondiscrimination, offering equal opportunity to all employees and applicants for employment on the basis of their demonstrated ability and competence without regard to such matters as race, sex, gender, color, religion, national origin, disability, age, veteran status, sexual orientation, genetic information, political belief, or other status protected by state and federal statutes or University Regulations.

The University of Wyoming is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search, employment and motor vehicle history. Offers of employment are contingent upon the completion of the background check.

Application Materials Required:

Applications must be submitted as a single PDF file to: Dr. W. Steven Holbrook, Search Committee Chair, steveh@uwo.edu. Applications must contain a cover letter, a statement of research interests, a statement of teaching interests, a curriculum vita, and contact information for at least three references. Review of applications will begin on February 28, 2013, and will continue until the position is filled.

5.3 Post-Doc in Environmental Geophysics, U. Western Brittany, France (from Pascal Tarits)

Post-doctoral fellowship in environmental geophysics at the Institut Universitaire Européen de la Mer, Université Western Brittany, Place Nicolas Copernic, Plouzané, France

Description

A 24 months post-doctoral position is available in the Electromagnetism for Geo-sciences group for a highly motivated young researcher to investigate the modelling and the measurement of shallow marine electromagnetic data acquired with a series of new instruments developed in the laboratory. Among the scientific objectives, we are working on littoral studies (flux of fresh water, destabilization of slopes, risks caused by infiltration of land aquifer water in the sea shore in presence of biogenic gas). We are also working on high resolution imaging of the shallow (from meter to 100 m) sub bottom geology with joint inversion of EM and acoustic data.

The objective of the postdoctoral work is to participate in the developement and testing of modelling tools in either frequency or time domain EM to be applied to these objectives.

The candidate will work with scientific programming as well as scientific instrumentation engineers and be part of a strong group in marine geosciences with skills in all geological domains involved in littoral studies.

The postdoctoral position is funded by both the Finistere department council and industry projects and strongly supported by industry.

Qualification and experience

The candidate must have a Ph.D. degree in geophysics with good practices of electromagnetic field as well as a strong modelling practice in EM and if possible inversion. The candidate should have a strong background in EM theory. The ability to conduct independent research and excellent communication skills are essential. Autonomy for writing reports, instructions and publications is required.

Application Procedure

Applicants should submit before the 30th of January at the latest a detailed Curriculum Vitae including contact address, email, academic qualifications, scientific and research experience, list of publications and any other information which the candidate feels may be relevant in supporting his/her application. In addition, they should provide a cover letter including their motivation and their future research objectives. The PhD must have been obtained less than 4 years ago

Send the files electronically to both Pr Pascal Tarits :
tarits@univ-brest.fr and Dr Jean-François D'Eu : deu@univ-brest.fr

The selection of the candidate should be achieved before the end of February 2013.

=====

To contribute material to the NS-newsletter send an e-mail to:

Stephen Moysey (smoysey@clemsun.edu)

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 or paragraphs). E-mail attachments cannot be distributed.

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 will receive Twitter announcements, so make sure that you sign up!