



American Geophysical Union
Near-Surface Geophysics Focus Group (NSFG)
Newsletter: December 2015

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Recent announcements of interest to the near-surface community (conferences, academic positions, graduate student opportunities, etc.) can be found on the [AGU Near-Surface Geophysics Focus Group website](#).

Early Career Scientists: Check out the [NSFG early career website](#).

Follow NSFG on [Facebook](#) and Twitter [@NS_AGU!](#)

1. AGU Updates

1.1 NSFG Fall Meeting Business Luncheon

The Near-Surface Geophysics focus group luncheon will take place on Tuesday, 15 December, from 12:30 P.M. to 1:30 P.M. at the Marriott. We look forward to seeing everyone in San Francisco!

1.2 Student Breakfast at AGU Fall Meeting

Wake up bright and early to enjoy breakfast with AGU section and focus group leaders. All registered students are welcome to attend, but student seating is limited to 400 on a first-come, first-served basis. The student breakfast will be held on 15 December, from 7:00 A.M. to 8:00 A.M. at the San Francisco Marriott Marquis, Salon 7. <http://fallmeeting.agu.org/2015/event/student-breakfast/>

1.3 Volunteer to Be an Outstanding Student Paper Award (OSPA) Judge at AGU Fall Meeting

Volunteer to judge student papers and posters that will be presented at the NS sessions you plan to attend at Fall Meeting. Judges should plan to review a minimum of three student presentations. Sign up online at the OSPA site (<http://ospa.agu.org/ospa/>) using your AGU member login/password and search for papers of interest. Scores and feedback are submitted at the same site by the closing date of 23 December. OSPA awards will be announced in January 2016. We are asking for your support again this year to judge student presentations, provide feedback to students and ensure that deserving work by NS students is recognized.

1.4 Near-Surface Geophysics Sessions at AGU Fall Meeting

The scientific program for Fall Meeting has been posted online. You can see a listing of [near-surface geophysics](#) sessions, sessions that are [cross-listed](#) with NS, or search through the entire program.

1.5 SEG Near-Surface Honorary Lecture at AGU Fall Meeting

The 2015 SEG NS Honorary Lecturer, Dr. Hansruedi Maurer, will give an invited presentation based on his SEG lecture "The curse of dimensionality in exploring the subsurface" on Tuesday, 15 December, at 10:20 A.M. in session NS22A, Moscone West 3024. More information about the 2015 SEG NS HL is available [online](#).

1.6 Forward Focused Ethics – What is the Role of Scientific Societies in Responding to Harassment and Other Workplace Climate Issues?

Town Hall, Open To All.

16 December 2015, 12:30 P.M. – 1:30 P.M., Moscone South – Room 102

This session will provide information on lessons learned from recent research on the prevalence of sexual harassment in the scientific community, and discuss examples of institutional and individual responses. This will be an interactive session, and will seek input from participants on suggested actions for the American Geophysical Union (AGU) and other scientific societies in helping to address and

correct these issues. This town hall session is jointly sponsored by the AGU, the Association for Women Geoscientists (AWG), and the Earth Science Women's Network (ESWN). [Learn more](#)

1.7 Joint Hydrogeophysics and NSFG Social Event

Continuing a long tradition, the Hydrogeophysics social will combine with the AGU Near-Surface Focus Group social. The event will be held at [The Hotel Utah](#) on Tuesday, 15 December from 6:30 P.M. onwards. For those of you not familiar with The Hotel Utah you will find it at 500 4th St (the corner of Bryant and 4th St).

2. Journal Information and Special Issue Call for Papers

2.1 *Journal of Environmental & Engineering Geophysics* Special Issue: Airborne Geophysics

Deadline for manuscript submission: 28 February 2016

Journal of Environmental & Engineering Geophysics (JEEG) announces a call for papers for a special issue on airborne geophysics. This issue is scheduled for publication in March 2017. The special issue co-editors are Antonio Menghini, Aarhus Geophysics, Denmark, and Les Beard, Zonge International, Arizona. Sponsorship of this issue is still open.

Suggested themes are:

- New developments in equipment
- Novel airborne geophysical systems, including unmanned systems
- Data acquisition, modeling, and inversion
- Case histories, including:
 - Hydrogeology, including soil salinity
 - Engineering
 - Ordnance detection
 - Environment
 - Mining
 - Exploration

International contributions are encouraged. The special issue will accommodate six to eight papers, but all accepted papers will be considered for publication in other JEEG issues.

Papers may be submitted through the [JEEG submission site](#). Indicate in the cover letter that the paper is for consideration in the Airborne Geophysics special issue. The deadline for submissions is 28 February 2016.

Questions may be directed to:

Special Issue Co-Editors: [Antonio Menghini](#) and [Les Beard](#)

JEEG Editor: [Janet Simms](#)

2.2 *The Leading Edge* Special Section: Hydrogeophysics

Deadline for manuscript submission: 15 May 2016

The Leading Edge (TLE) announces the call for papers for a special section on hydrogeophysics scheduled for publication in September 2016. The special section will showcase applications of hydrogeophysics to quantitatively assess and monitor subsurface properties and processes. Contributions utilizing borehole, cross-hole, surface, and airborne methods to support the development and calibration of groundwater and contaminant transport models, monitor ecosystems, and sustainably manage groundwater resources are encouraged.

The paper submission deadline is 15 May 2016. Papers should be submitted directly to the guest editors below. Submissions guidelines for TLE [are available online](#).

Guest Editors: [Rosemary Knight](#) and [Burke Minsley](#)

Coordinating Editor: [John Lane](#)

3. Tech-Transfer Courses and Training

3.1 Multichannel Analysis of Surface Waves (MASW) Workshop

Dates: TBD February 2016

Registration cost: free

Location: [Kansas Geological Survey](#), Lawrence, Kansas

[Website](#)

This free 2-day [MASW](#) workshop will provide an opportunity for geoprosessionals, geoscientists, and graduate students to gain knowledge about data acquisition, analysis, and interpretation of the seismic Rayleigh surface waves. The learning process will be facilitated by the use of [SurfSeis](#) software. The workshop is designed to address the current approaches for analyzing seismic data from both active and passive sources to obtain shear wave velocity (V_s) estimates for the near surface.

On day 1, a theoretical overview of the MASW method (active and passive) will be presented, participants will be familiarized with the SurfSeis software package, and field data acquisition from both active and passive sources is scheduled to take place (weather permitting).

Day 2 will continue with the theoretical MASW overview covering surface wave inversion, multimode interpretation and inversion, inversion sensitivity, use of a priori information, the quality of inversion results, and the latest advancements for dispersion curve imaging—such as the high-resolution linear radon transform, challenging dispersion curve patterns, and more. Seismic data acquired on day 1 will be analyzed. Participants are encouraged to bring samples of their own data for discussion, as time permits.

Attendees are expected to bring their own laptops.

4. Upcoming Conferences and Workshops

4.1 Meetings Overview

Meeting (click to go to website)	Location	Meeting Dates	Submission	Registration
<u>AGU Fall Meeting</u>	San Francisco, California	14–18 December 2015	<i>Closed</i>	<i>Open</i>
<u>2nd SEG/DGS Workshop: Near-Surface Modeling and Imaging</u>	Manama, Bahrain	6–7 March 2016	<i>Closed</i>	Early registration ends: 4 February 2016
<u>SAGEEP 2016</u>	Denver, Colorado	20–24 March 2016	<i>Closed</i>	<i>TBA</i>
<u>EGU General Assembly</u>	Vienna, Austria	17–22 April 2016	<i>13 January 2016</i>	Early registration ends: 17 March 2016

5. Position Announcements

5.1 Assistant Professor (Tenure-Track) Position in Geophysics at Louisiana State University

The Department of Geology and Geophysics at Louisiana State University (LSU) seeks an outstanding individual with expertise in the broad area of geophysics. The specific geophysical research area is open to all subdisciplines of geophysics. However, the individual should be able to work on problems that either build on existing strengths in the department or advance science in fields that complement these strengths.

This tenure-track position at the Assistant Professor level is intended to complement our existing research strengths, including Coastal Resilience and Near-Surface Processes, Evolution of Sedimentary Basins, Earth Materials and Processes, Planetary Science, Tectonometamorphism, Climate and Tectonics, and Polar Studies. Research in this subdiscipline may also build strength in the LSU campus-wide research focus areas of "Coastal Sustainability and Environment" (CS&E), "Conventional and Renewable Energy" (C&RE), "Core Computing/High Performance Computing" (CC/HPC), and "Materials Science and Engineering" (MS&E). Nominations or inquiries should be directed to Geophysics Search Committee, at 225-578-3353 or geology@lsu.edu.

LSU is designated a Carnegie Research I University and is one of a handful of distinguished universities to enjoy Land, Sea, and Space Grant status. The Department of Geology and Geophysics currently consists of 17 tenure-track faculty members having a wide range of geoscience expertise covering field, experimental, analytical, and theoretical components. We offer degrees in geology at the B.S., M.S., and Ph.D. levels. The department has a strong record of success in research and graduate training, synergistic interactions with other academic units at LSU, federal and industry-funded research and teaching programs, and a large and active alumni base. (See <http://geology.lsu.edu> for more information.) Opportunities for a broad range of research interactions are available within the department and throughout the university. The university actively promotes interdisciplinary research clusters, including coastal sustainability and environment, conventional and renewable energy, core computing/high performance computing, and materials science and engineering. (See <http://research.lsu.edu> for more information.)

Required Qualifications: Ph.D. in geology, geophysics, or other relevant disciplines. The successful candidate will be in the process of developing an internationally recognized scientific reputation, and will be expected to maintain a high-level, externally funded research program, mentor and support graduate students, publish in highly ranked journals, and provide leadership both on campus and beyond. A.B.D. candidates will be considered as long as the degree is conferred by the effective date of the appointment.

Special Requirements: Willingness and ability to travel internationally or domestically.

Applications are to be submitted online. The application package should contain an application letter, a CV, a teaching statement, a research statement, and the names and contact information of at least three persons who can provide letters of reference.

Applicants for this position should articulate in their application letter how they will help LSU attain its goals as stated in Flagship 2020:

Discovery: Expand discovery through transformative research and creative activities addressing contemporary and enduring issues that shape the way we live in the world

Learning: Enhance a faculty-led and student-centered learning environment that develops engaged citizens and enlightened leaders

Diversity: Strengthen the intellectual environment by broadening the cultural diversity of the LSU community

Engagement: Promote engagement of faculty, staff and students in the transformation of communities

Offer of employment is contingent upon verification of an individual's eligibility for employment in the United States. All offers of employment, oral and written, are contingent on the university's verification of credentials and other information required by federal law, state law, and LSU policies/procedures, and will include the completion of a criminal history check. The review process will begin 8 January 2016. [Click here](#) to apply online and view a more details. Position #030923.

LSU IS COMMITTED TO DIVERSITY AND IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER.

Quick link at ad URL: <https://lsusystemcareers.lsu.edu/applicants/Central?quickFind=59923>

To contribute material to the NSFG newsletter, send an email to [Burke Minsley](#).

Deadline: Material must be received five full business days before the first of the month.

Guidelines for submissions: All members are welcome to submit content of interest to the near-surface community. Please keep messages brief and provide contact information and (if available) a web address for additional information.

Get your message out to NSFG members faster.

You 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 who follow [@NS_AGU](#) will receive Twitter announcements, so make sure that you sign up!