



**American Geophysical Union
Near-Surface Geophysics Section
Newsletter: September 2018**

Dear Colleagues:

The latest Near-Surface Geophysics section newsletter is now available. Please follow this link to see the [full version online](#).

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

Early-career scientists: Check out the [NSG early-career website](#).

Follow NSG on [Facebook](#) and Twitter [@NS AGU](#)!

Best regards,

Sarah Kruse

President, Near-Surface Geophysics Section, AGU

Near-Surface Geophysics Section September 2018 Newsletter

Upcoming Meetings at a Glance

Meeting (click to go to website)	Location	Meeting Dates	Submission	Registration
24th European Meeting of Environmental and Engineering Geophysics	Porto, Portugal	9–13 September 2018	Closed	On-site registration
5th International Workshop on Induced Polarization	Newark, NJ	3–5 October 2018	Closed	Early registration deadline: 15 September 2018
SEG	Anaheim, CA	14–19 October 2018	Closed	Standard and on-site registration
13th SEGJ International Symposium	Tokyo, Japan	12–14 November 2018	Closed	Preregistration closes 12 October 2018, then on-site
AGU FALL MEETING	Washington, D. C.	10–14 December 2018	Closed	Early registration deadline: 7 November 2018

Upcoming Deadlines and Events

- **27 August:** [2018 AGU elections](#) open
- **25–27 September:** [Chapman Conference on Hydrologic Research in the Congo Basin](#), Washington, D. C.
- **25 September:** [2018 AGU elections](#) close

Section Announcements

- **Look for upcoming elections later in August**
We have a slate of super candidates: Burke Minsley (U.S. Geological Survey) and Stephen Moysey (Clemson University) for president-elect, and Kisa Mwakanyamale (Illinois State Geological Survey) and Judy Robinson (Pacific Northwest National Laboratory) for secretary. Your vote is important! Check out our [strong slate of section candidates and vote](#) before 25 September.
- **Save the date! Here are the Near-Surface section events at Fall Meeting in Washington, D. C.**
 - Section Business Meeting & Luncheon (Tuesday, 11 December, 12:30–1:30 PM), just \$5 for students!
 - Section Early Career/Student Event (Thursday, 13 December, 6:00–7:30 PM) A new event for us—it's free; no tickets required.
 - Joint Near Surface–Hydrogeophysics Gathering (Wednesday, 12 December)
- **Please consider giving to AGU!**
If you donate \$50, your contribution helps qualify our section for an additional \$1,000, which we can use for student travel scholarships, etc. [You can specify where in AGU](#) you'd like your money to go. You can spread out your gift in monthly contributions.

AGU Updates

- **Apply to share your science with K–12 educators at Fall Meeting**
AGU and the National Earth Science Teachers Association (NESTA) are now soliciting proposals from scientist/educator presenter teams at the [Geophysical Information for Teachers](#) (GIFT) workshop at Fall Meeting. Each selected team of presenters will have approximately 1.5 hours during one of the two workshop days to present their work, accompanied by a closely related hands-on activity or set of activities, to the educators. This collaborative workshop enables scientists to work closely with an education specialist to develop and share material with K–12 and informal educators. Each team of presenters will receive one free full-week registration to AGU Fall Meeting. Note that this is in addition to the free registration to Fall Meeting for all K–12

educators with valid credentials. [Applications](#) are open now and through 31 August. Please [contact us](#) with any questions.

- **AGU Instagram takeover: Share your science**

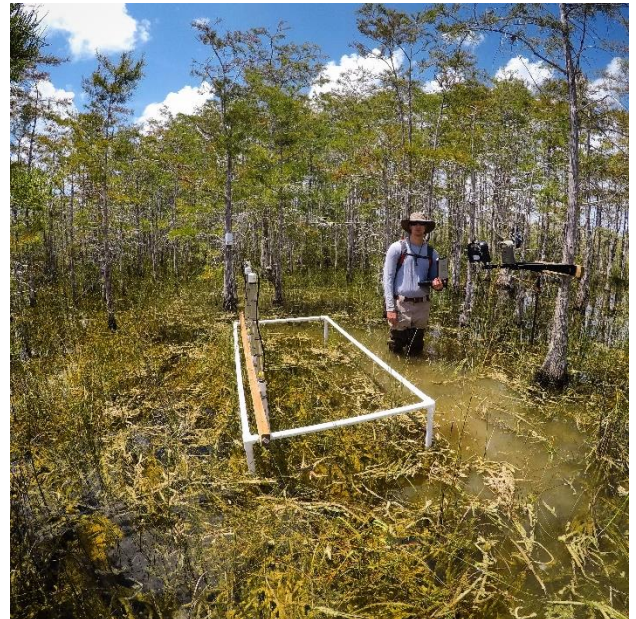
We're looking for scientists of all career stages and disciplines to take over AGU's Instagram account with photos and videos of your work this summer. [Email us](#) if you are interested in taking over our Instagram account during or after your fieldwork, or for a few days while you're working in the lab. While you're out in the field, you can also share pictures of your work and field site with us by submitting a [Postcard from the Field](#) via our [Tumblr site](#).

- **Publicizing your work at Fall Meeting**

Are you presenting new research findings at Fall Meeting 2018 or chairing a session at the meeting where new research will be presented? Do you think the research might be newsworthy? If so, please fill out [this publicity form](#) to tell AGU's press office why your research or research in your session might be of interest to the press and the public. Press office staff will contact you if they are interested in publicizing the work at Fall Meeting. If you're unsure about what makes scientific results newsworthy, check out [our handy newsworthiness criteria guide](#). For any questions, email news@agu.org.

NSG Student Spotlight and Research Highlights

[Troy Bole](#) is currently in his second year of the M.S. program in the Department of Geosciences at Florida Atlantic University (FAU), where he works with his advisor, Dr. Xavier Comas. Troy's current work falls broadly within the biogeosciences field and focuses on using a combination of ground-penetrating radar, capacitance probes, gas traps, and time-lapse cameras to study biogenic gas (i.e., carbon dioxide and methane) dynamics in the Everglades. Much of his research involves fieldwork within Arthur R. Marshall Loxahatchee National Wildlife Refuge, where he drives an airboat to reach his various study sites. During his undergraduate studies (University of Akron, 2017), Troy discovered his interest in geophysics. Being exposed to various geophysical methods and applications at the undergraduate level cemented Troy's interest in combining physics and geology and led him to pursue an advanced degree. While at the University of Akron, Troy served as president of its American Association of Petroleum Geologists (AAPG) Student Chapter and was the runner-up for the 2016 North-Central Section Geological Society of America (GSA) Poster Award. For this [work](#), Troy analyzed a series of sediment cores from Lake Tanganyika in Africa for mercury concentrations. Upon entering FAU in 2017, Troy was awarded the Provost Fellowship Award, which is given to new master's or doctorate students with an outstanding record, reflecting the strong work ethic he has demonstrated throughout his academic career. Troy is a new member to the near-surface geophysics community, and the upcoming AGU Fall Meeting will be his first! He is particularly excited to present work from his master's thesis and to meet other like-minded individuals, so don't forget to check out his work. Troy plans to graduate this upcoming spring and is interested in pursuing research involving planetary exploration (in particular, Mars) using geophysical techniques. For more information about his work in the Everglades, please contact [Troy Bole](#).



Interested in being highlighted, or know a student who should be? Please email [Matthew Sirianni](#) for more information about the Student Spotlight. We are also seeking research highlights that showcase use of near-surface geophysics in other [AGU sections and focus groups](#). If you are interested in writing a short, one-page highlight, please contact [Chi Zhang](#).

FYIs

Employment opportunity

- University of Wyoming: Ph.D. assistantships in Hydrology/Geophysics.** Two 3-year Ph.D. assistantships in hydrology/geophysics are available at the University of Wyoming in Laramie. The students will combine hydrological and geophysical field observations with numerical modeling to study snowmelt-driven streamflow generation at the hillslope and small-watershed scales as part of an NSF-funded project titled “Subsurface Structure and Flow Regime for Rocky Mountain Hillslopes with Different Geologies.” Applicants with a background in hydrology, geology, geophysics, civil engineering, or related fields are encouraged to apply. The intended starting date is September 2018 or January 2019. A stipend for the 9-month academic year, an additional summer stipend, tuition and fee reduction, and health insurance are provided. To apply, email a statement of research interest, resume, GPA and GRE scores, and contact information for three references to tkellene@uwyo.edu and aparseki@uwyo.edu. For more information, contact Thijs Kelleners, professor of soil physics, Department of Ecosystem Science and Management, at 1-307-766-4279, or Andrew Parsekian, assistant professor of hydrogeophysics, Department of Geology and Geophysics, at 1-307-223-1197.

5th International Workshop on Induced Polarization

- The [5th International Workshop on Induced Polarization](#) (IP) will include five distinguished invited speakers, dedicated poster sessions, and roundtable group discussions focusing on various aspects of IP theory and practice. The program includes a number of social events to provide opportunities for informal communication with colleagues and collaborators. The early registration deadline for the workshop is 15 September. Registering early is advised, as the workshop has an attendance cap that is likely to be met

2018 SEG Annual Meeting Technical Program Near-Surface Geophysics Technical Section

ORAL SESSIONS						
ROOM #	MONDAY PM	TUESDAY AM	TUESDAY PM	WEDNESDAY AM	WEDNESDAY PM	THURSDAY AM
204A	NS 1: Geoscientists Without Borders® and Humanitarian Geophysics	NS 2: Surface Wave Studies and Applications	NS 3: Novel Procedures and Agricultural Applications	NS 4: Tomography for Improved Imaging and Airborne Application	NS 5: Site Characterizations	NS 6: Tunnel Detection
207A		SS 3: Engineering Geophysics				
213B	SS 2: Developments and Applications of Surface Wave Methods			SS 7: SEG/AGU Hydrogeophysics		
POSTER SESSIONS						
	MONDAY PM	TUESDAY AM	TUESDAY PM	WEDNESDAY AM	WEDNESDAY PM	
EXHIBITION HALL	NS P1: Shallow Velocity	NS P2: Shallow Velocity and Coherency Improvement	NS P3: GPR and Engineering Applications	NS P4: Site Studies	NS P5: Electrical and Potential Modeling and Inversion	
EXHIBITION HALL					NS P6: Shallow Seismic	
POST-CONVENTION WORKSHOPS						
Date	Workshop Number	Room #	Title	Organizers	Contact Info	

Thursday PM	12	TBD	Advances in Geophysical Tomographic Methods	Erasmus Oware Jan van der Kruk Jinsong Chen Anh Tran	University of Buffalo Forschungszentrum Jülich GmbH Lawrence Berkeley National Laboratory Lawrence Berkeley National Laboratory	erasmuso@buffalo.edu
Friday All Day	22	TBD	Advances in Unmanned Airborne System (UAS) Geophysics	John Lane Nathan Campbell	U.S. Geological Survey Oklahoma State University	jwlane@usgs.gov

Near-Surface Geophysics Technical Section Panel Discussions

- Monday, 15 October 2018: Challenges of Working in the Coastal Zone
- Tuesday, 16 October 2018: Near-Surface Geophysics Student Career Panel
- Wednesday, 17 October 2018: Near-Surface Geophysics for Groundwater Management

*Evening reception: Tuesday, 16 October 2018, from 7:00 to 10:00 p.m.

*Registration is required.

To contribute material to the NSGS newsletter, send an email to [Chi Zhang](#).

Deadline: Material must be received 5 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 NSG members faster.

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