



American Geophysical Union

Near-Surface Geophysics Focus Group (NSFG)

Newsletter: November 2014

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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 website](#).

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

1. 2014 AGU Elections Results (from George Tsoflias)

Dear colleagues: It is my pleasure to announce the newly elected NSFG officers, President-Elect Sarah Kruse (University of South Florida) and Secretary Burke Minsley (U.S. Geological Survey). I would also like to thank Juan Lorenzo (Louisiana State University) and Frederic Nguyen (University of Liège) for their willingness to serve the Near-Surface Geophysics Focus Group. Frederick Day-Lewis (U.S. Geological Survey) is the incoming president of NSFG. Last but not least, congratulations to Louise Pellerin for being elected AGU General Secretary, joining Carol Finn, Past President, and Sue Webb, International Secretary, in AGU's executive committee.

2. AGU Fall Meeting – Register, Book Your Hotel

Remember to pre-register online, book your hotel, and get your NSFG luncheon ticket. The housing and pre-registration deadline is 14 November, 11:59 P.M. EST. [Register](#) and [Book Housing](#).

The Near-Surface Geophysics Focus Group Luncheon will take place on Tuesday, 16 December, 12:30 P.M.-1:30 P.M. at the InterContinental San Francisco. Luncheon tickets sell out online and are not available for purchase onsite, so make sure you get your ticket early when you pre-register for the meeting.

3. Free Student Tickets for NSFG Luncheon at the AGU Fall Meeting (from George Tsoflias)

NSFG has 30 tickets available, on a first request basis, for students interested in attending the NSFG luncheon, which will be held on Tuesday, 16 December, in San Francisco, Calif. The luncheon is a great opportunity for students to learn about the near-surface community and network with professionals, academics, and fellow students. If you are interested in receiving a free ticket, please e-mail George Tsoflias (Tsoflias@ku.edu). You must have a primary or secondary affiliation with NSFG prior to receiving a free ticket, so please check your affiliation status online and notify me of your membership status in your ticket request.

We look forward to seeing you at the luncheon!

4. NS Sessions at the AGU Fall Meeting (from Xavier Comas)

We are looking forward to a great turnout at the Near-Surface Geophysics sponsored sessions at this year's AGU Fall Meeting. There have been 12 sessions approved and all promise to be a great contribution to the meeting. Stay tuned to next month's newsletter for more details regarding sessions and events at the AGU Fall Meeting.

NS01. Advances in Exploration Geophysics

Louise Pellerin, Green Geophysics, Berkeley, CA, United States, Kennedy O Doro, University of Tuebingen, Tuebingen, Germany and Darcy McPhee, USGS, Menlo Park, CA, United States

NS02. Applications of Near-Surface Geophysics in Cold Regions

Martin A Briggs, USGS Office of Groundwater, Storrs, CT, United States, Steve Arcone, U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, United States, Seth Campbell, University of Maine, ME, United States, and Reginald R Muskett, Geophysical Institute University of Alaska Fairbanks, Fairbanks, AK, United States

NS04. Coastal Geophysical Studies: At the Transition between Land and Sea

Juan M Lorenzo, Louisiana State Univ, Baton Rouge, LA, United States and Bruce D Smith, U.S. Geological Survey, Lakewood, CO, United States

NS05. GPR advances for subsurface imaging

Georgios P Tsoflias, University of Kansas, Lawrence, KS, United States, Sid-Ali Ouadfeul, Remke L Van Dam, Michigan State University, East Lansing, MI, United States,

NS06. Geophysical Methods for Groundwater Evaluation and Management

Rosemary J Knight, Stanford Univ, Stanford, CA, United States and John W Lane Jr, USGS, Storrs, CT, United States

NS07. Interpreting geophysical signals: what we really see vs. what we want to see

Chi Zhang, Rutgers University Newark, Newark, NJ, United States and Dimitrios Ntarlagiannis, Rutgers University, Newark, NJ, United States

NS08. Near Surface Geophysics General Contributions

Xavier Comas, Florida Atlantic University, Boca Raton, FL, United States and Bruce D Smith, U.S. Geological Survey, Lakewood, CO, United States

NS09. Near-Surface Seismic Methods for Geohazard Assessment

Laura Valentina Socco, Politecnico di Torino, Torino, Italy, Richard D Miller, Univ Kansas, Lawrence, KS, United States and Georgios P Tsoflias, University of Kansas, Lawrence, KS, United States

NS10. Seismic Emission Due to the Propagation of Fluid-Driven Fractures

Arash Dahi Taleghani, Louisiana State University and Agricultural & Mechanical College, Baton Rouge, LA, United States, Juan M Lorenzo, Louisiana State Univ, Baton Rouge, LA, United States and Joel LeCalvez, Schlumberger Oilfield Services, Sugar Land, TX, United States

NS11. The Seismoelectric Method: Going Together to the Next Level

Niels Grobbe, Delft University of Technology, Delft, Netherlands, Andre Revil, Colorado School of Mines, Golden, CO, United States, Zhenya Zhu, Massachusetts Institute of Technology, Quincy, MA, United States and Evert C Slob, Delft University of Technology, Delft, 5612, Netherlands

NS12. Use of Distributed Fiber Optic Sensing in Study of Geophysical Processes

Tom Oliver Trevett Read, University of East Anglia, School of Environmental Sciences, Norwich, United Kingdom, Nick Van De Giesen, Delft University of Technology, Faculty of Civil Engineering and Geosciences, Delft, 5612, Netherlands, John Steven Selker, Oregon State University, Biological and Ecological Engineering, Corvallis, OR, United States and Scott W Tyler, University of Nevada, Geological Sciences and Engineering, Reno, NV, United States

5. Upcoming Conferences and Workshops

5.1 Fourth Concurrent Technical Session Track Opened for SAGEEP 2015, Austin, TX (from Jeff Paine)

Strong response to the initial abstract call has filled three concurrent technical sessions for SAGEEP 2015, which will be held in Austin, Texas 22-26 March. To accommodate continuing submissions, SAGEEP organizers have opened a fourth concurrent technical session track and will accept abstracts until that track is filled. The initial deadline has passed, so please send your abstracts as soon as possible to ensure your place in the technical program. Abstract acceptance notices will be sent by 20 November. Final short abstracts and optional extended abstracts are due 19 January. You can find a list of proposed session topics at the [SAGEEP 2015 website](#), along with a link to the abstract submission page. Please contact Technical Chair Brad Carr (bcarr1@uwyo.edu) or General Chair Jeff Paine (jeff.paine@beg.utexas.edu) if you have any questions or would like to be on an informal mailing list to receive SAGEEP 2015 updates.

5.2 1st SEG/SBGf Workshop on Near-Surface Geophysics

Meeting Dates: 3-4 December 2014

Meeting Location: Salvador, Brazil

[Visit the Workshop Website](#)

The program for this workshop will offer a broad range of geophysical methods to address a diverse near-surface community that utilizes geophysics methods applied to a large array of applications. It is designed to attract professionals from varied geophysical sectors with a focus on engineering, environmental, hydrogeophysics, and geohazard, as well as mining and shallow oil & gas exploration applications. Keynote speakers for the workshop are to include Dr. Oz Yilmaz.



SEG/SBGf Workshop
**Near-Surface Geophysics Applied to Exploration,
Engineering, and Environmental Studies**
Salvador, BA, Brazil
3-4 December 2014

Register Now!
www.seg.org/meetings/Salvador2014

The banner features two logos: the SEG logo (a starburst with 'SEG' inside) and the SBGf logo (a globe with 'SBGf' inside). To the right is a photograph of a coastal city with a prominent tower and a harbor filled with boats.

5.3 Near-Surface Asia Pacific Conference

Submission Deadline: 21 November 2014

Meeting Dates: 7-10 July 2015

Meeting Location: Waikoloa, Hawaii

[Visit the Conference Website](#)

We would like to invite you to submit a paper to the 2nd Asia Pacific Conference on Near-Surface Geophysics. Please see the newsletter attachment for the call for papers.

The 2015 Near-Surface Asia Pacific Conference will focus on near-surface issues within the entire Pan-Pacific region and will provide a world-class forum for new technical advances, developments, and applications in near-surface geophysics.

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

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

In addition, given that this year's venue is located on the Hawaiian volcanic chain, we will highlight geophysical applications to natural hazards focusing on volcanoes. Special sessions are planned for volcano characterization; monitoring, imaging, and stratigraphy of pyroclastic flows; geophysical applications to tsunamis; and passive/microseismic methods for near-surface applications.

As a new component to this year's conference, we invite proposals for additional special sessions and one-day post-conference workshops. In your proposal, please include the workshop or session organizers, potential invited speakers, and a brief description of the topic and its relevance to the conference.

As part of the meeting, Oz Yilmaz, author of *Seismic Data Analysis*, will give his 2015 Distinguished Short Course entitled, "Engineering Seismology: with Applications to Geotechnical Engineering," and Koichi Hayashi will present his 2014 Near-Surface Honorary Lecture, "Integrated geophysical methods applied to geotechnical and geohazard engineering: From qualitative to quantitative analysis and interpretation."

The post-conference field trip will tour the unique volcanic landscape of Hawaii. We will travel through the Hawaii Volcanoes National Park, an inspiring and precious place that is listed as both a World Heritage Site and an International Biosphere Preserve. Additionally, we will visit the Hawaiian Volcano Observatory and discuss the historical earthquake and eruption effects from Hualalai, Mauna Loa, and Kilauea.

5.4 Multichannel Analysis of Surface Waves (MASW) Workshop

Meeting Dates: 19-20 February 2015 (Registration is free)

Meeting Location: Kansas Geological Survey (KGS), Lawrence, Kansas

[Visit the Workshop Website](#)

This free two-day MASW workshop will provide opportunity for geo-professionals, geoscientists, and graduate students to gain knowledge about 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 for obtaining 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 take place (weather permitting).

Day 2 will continue with the theoretical MASW overview covering surface-wave inversion, multi-mode interpretation and inversion, inversion sensitivity, use of a-priori information and quality of inversion results, latest advancements for dispersion-curve imaging—such as the high-resolution linear Radon transform (HRLRT), challenging dispersion-curve patterns, and more. Day-1 acquired seismic data 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.

5.5 6th International Workshop on Magnetic Resonance Sounding

Meeting Dates: 8-10 June 2015

Meeting Location: Aarhus, Denmark

[Visit the Workshop Website](#)

The workshop is organized by the HydroGeophysics Group, Aarhus University. We will do our utmost to make this an unforgettable event, and we hope that science at the highest possible level will go hand in hand with good discussion with our colleagues.

As an add-on to the workshop we will, arrange a short course for professionals and students on 6-7 June. Here we will introduce the method, the equipment, the processing and inversion software and examples of applications. We hope that this will be a great introduction to the method for newcomers and for those who know something, but would like to know more.

The workshop will focus on the recent advances in nuclear magnetic resonance (NMR) measurements for near-surface characterization. The most important findings will be presented in the areas of:

- Borehole NMR
- Laboratory NMR
- Integration of NMR with hydrologic modeling
- Instrumentation
- Case studies
- Magnetic Resonance Sounding (MRS) / Surface NMR

VistaClara Iris Instruments, Ramboll, and the Danish Ministry of the Environment are sponsoring the workshop and they will also be present in the exhibition. We are looking forward to seeing you in the historic city of Aarhus.

5.6 CUAHSI Instrumentation Training Course: Near-Surface Geophysics for Hydrology

Meeting Dates: 12-16 January 2015

Meeting Location: University of Arizona, Tucson, Arizona

[Visit the Workshop Website](#)

The CUAHSI Hands-on Workshop on Near-Surface Geophysics for Hydrology will introduce participants to several key methods of near-surface geophysics and their application to hydrology and critical zone processes. Topics covered will include:

- Seismic refraction
- Ground-penetrating radar
- Electrical resistivity
- Magnetics
- Electromagnetic induction

The course will combine lecture and hands-on instruction with state-of-the-art geophysical equipment and software. Three field trips will be taken to collect field data at the Catalina Critical Zone Observatory near Tucson, Arizona; the data collected will then be analyzed during the course. Participants will also travel to the Biosphere2 facility in Oracle, AZ for a lecture and hands-on training on seismic refraction.

Course Tuition Fee: \$850

Registration opens 3 November 2014 - Limited space available!

6. Position Announcements

6.1 Professorship in Vadose Zone Processes – University of Lausanne, Switzerland

The Faculty of Geosciences and Environment at the University of Lausanne invites applications for a professorship in vadose zone processes. We invite applicants with expertise in the hydrology of the vadose zone that includes the development of quantitative methods for predicting flow and transport phenomena. A clear interest in fundamental research to better understand vadose zone processes is highly desirable. We particularly seek applicants with experience and interest in forming collaborative research with other Earth and environmental science disciplines (geophysics, land-atmosphere-climate, Earth observatories, etc.). We will consider exceptional applicants from other domains of relevance to vadose zone processes.

The candidate must have a sufficient background in and a strong commitment to excellence in teaching of a range of hydrological topics at both the undergraduate and graduate levels. Teaching activities will also include participating in doctoral programs and supervising Master and Ph.D. students. The ability to teach in French has to be acquired within two years of the appointment.

The successful candidate is expected to have a proven capacity or potential of developing an internationally competitive research program in the field of vadose zone processes, and to interact and create synergies with researchers of the Faculty of Geosciences and Environment.

Appointment is expected at the Associate Professor level or at the Assistant Professor level (tenure track), with Associate Professor status within 5-6 years. Appointment at the Full Professor level may be considered under exceptional circumstances. The University of Lausanne is an equal opportunity employer. Applications from women are particularly encouraged.

Application deadline: **15 January 2015**

Starting date: **1 August 2015** (or to be agreed upon)

Applications are to be submitted by e-mail only in a single pdf file to the Faculty of Geosciences and Environment (vadose.gse@unil.ch). An automatic reply will acknowledge reception of the file. In case of problem, please contact rania.sardi@unil.ch. The application material should include:

- a letter explaining the reasons for applying
- a Curriculum Vitae including the year of birth and the date of the PhD thesis defense with its title
- a list of publications
- a statement of research and teaching goals and interest (not exceeding 3 pages)
- pdfs of the five most significant publications
- the names and contact information of five referees.

For any specific enquiries, please contact Prof. Othmar Müntener (othmar.muntener@unil.ch), Director of the Institute of Earth Sciences.

6.2 Post-Doctoral Research Scientists (3 Positions) – WyCEHG, University of Wyoming

The Wyoming Center for Environmental Hydrology and Geophysics (WyCEHG) at the University of Wyoming seeks to fill three (3) postdoctoral research positions. This cluster hire will target individuals who work at the interface between the land-surface and groundwater systems and augment ongoing research into mountain hydrology and critical zone processes. WyCEHG research is focused on understanding and quantifying the processes that control water fluxes in mountain environments through hydrologic, ecological, and geophysical observations and the use of computational hydrology. We are specifically targeting candidates who are using emerging techniques in integrated hydrologic modeling, the use of near-surface geophysics in hydrologic applications and the merging of observational data across disciplines. Successful candidates will become part of a large interdisciplinary research initiative and have access to state-of-the-art instrumentation within the newly established Facility for Imaging the Near- and Sub-surface Environment (FINSE) and Surface and Sub-surface Hydrology Lab (SSHL).

Applicants are encouraged to [visit the WyCEHG website](#) to learn more about the Center, the two facilities, and identify potential collaborators. Minimum qualifications include 1) an earned Ph.D. at the time of hire in hydrology, geophysics, geomorphology, geochemistry, ecohydrology, or a closely related area; and 2) evidence of research productivity in the form of peer-reviewed journal publications. Preferred qualifications include 1) demonstrated capacity to work productively in collaborative and interdisciplinary teams; 2) the demonstrated willingness and ability to communicate research findings to stake holders; and 3) a history of innovative problem solving.

To apply, send a CV, statement of research interests, and contact information of three references to Scott Miller (snmiller@uwyo.edu). Review of applications will begin on 1 November 2014, but applications will be accepted until all positions are filled.

The University's policy has been, and will continue to be, one of non-discrimination, 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.

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

Stephen Moysey (smoysey@clermson.edu)

DEADLINE: Material must be received 5 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](#) will receive Twitter announcements, so make sure that you sign up!



Near Surface

Asia Pacific Conference

7–10 JULY 2015 • WAIKOLOA, HAWAII, US



The 2015 Near Surface Asia Pacific Conference will focus on near-surface issues within the entire Pan-Pacific region and will provide a world-class forum for new technical advances, developments, and applications in near-surface geophysics.

We welcome the 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**

In addition, given that this year's venue is located on the Hawaiian volcanic chain, we will highlight geophysical applications to natural hazards focusing on volcanoes. Special sessions are planned for volcano characterization; monitoring, imaging, and stratigraphy of pyroclastic flows; geophysical applications to tsunamis; and passive/microseismic methods for near-surface applications.

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Call for Papers

Abstract submission deadline:
21 November 2014

Early Bird registration deadline:
7 June 2015

Lead Partner:

Society of Exploration Geophysicists

Cosponsored by:

**Australian Society of
Exploration Geophysicists**
**Korean Society of Earth and
Exploration Geophysicists**
**Society of Exploration
Geophysicists of Japan**
Chinese Geophysical Society

Organizing Committee:

John Bradford

Boise State University

Jian Guo

Chinese Geophysical Society

Koya Suto

Terra Australis Geophysica Pty Ltd.

Myeong-Jong Yi

*Korean Institute of Geoscience
and Mineral Resources*

Dr. Jun Matsushima

Tokyo Institute of Technology

► Meeting Schedule

Tuesday, 7 July: Registration

Wednesday, 8 July–Friday, 10 July: Joint Opening Keynote and full-day break-out sessions.

There will be a gala dinner on one of the evenings.

► Exhibition & Sponsorship

The Exhibit Hall will be open Wednesday, 8 July–Friday, 10 July. For more information on exhibiting at this event or sponsoring opportunities, contact Dick Rauner at drauner@seg.org.

► Meeting Venue

The event will take place at the Hilton Waikoloa Village in Waikoloa, Hawaii. More information regarding this venue can be found at www.hiltonwaikoloavillage.com.

► Abstract Submission

All abstracts along with application forms must be submitted electronically to nsgapc@seg.org in PDF format by 21 November.

Application Form

Near Surface Asia Pacific Conference
7–10 July 2015
Waikoloa, Hawaii

Melanie McGuire, Senior Manager
Conventions & Meetings Operations
SEG Business Office
8801 S. Yale Ave., Ste. 500
Tulsa, OK 74137-3575
mmcguire@seg.org



Lead Partner:

Society of Exploration Geophysicists

Cosponsored by:

**Australian Society of Exploration Geophysicists
Korean Society of Earth and Exploration Geophysicists
Society of Exploration Geophysicists of Japan
Chinese Geophysical Society**

PRINT IN BLACK INK OR TYPE

Mr. Ms. Dr. Student: Yes No

Name _____

Company/Organization _____

Mailing Address _____

City _____ State _____

Postal Code _____ Country _____

Business Phone _____

E-mail _____

Select your preference: Presentation No presentation, discussion contribution only

If presenting, please complete the following information and submit abstract via email to: nsgapc@seg.org

Abstract Title _____

Subject _____

Signature _____

Note: The mechanical recording of any portion of the 2015 Conference in any form (photographic, electronic, etc.) is strictly prohibited. Only registrants are permitted to attend conference sessions. Each participant agrees to the above regulations when application is accepted as indicated by his or her signature on this form.

SAGEEP 2015

March 22-26 TEXAS USA



Call for Abstracts - Online Submission Site Open

Key Submission Dates

Oct. 31, 2014 - Deadline for Initial Short and Extended Abstracts

Nov. 20, 2014 - Notice of Abstract Acceptance, Suggested Revisions or Rejection

Jan. 19, 2015 - Deadline for Final Abstracts and Optional Extended Abstracts

The Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP) provides geophysicists, engineers, geoscientists and end-users from around the world an opportunity to meet over a 5-day period to discuss near-surface applications of geophysics and learn about recent developments.

CONFERENCE HIGHLIGHTS

Special Sessions

Over 200 Talks & Posters

Commercial Exhibition

Keynotes on Climate Change, Water & Archeology

Field Trip to Austin Geologic & Engineering Wonders

Off-site Events Including a Texas Roundup & BBQ,

Downtown Conference Evening & Student Social

Equipment Demonstrations

Proceedings CD

Short Courses & Workshops

Keep Up to Date with SAGEEP!

Send an email to General Chair Jeff (jeff.paine@beg.utexas.edu) if you would like to be on an informal email list and receive developing information. Suggest Short Course and Workshop ideas to Short Course Chair Bill Doll (dollw@battelle.org).

WWW.EEGS.ORG/SAGEEP 2015

General Chair: Jeff Paine jeff.paine@beg.utexas.edu

Technical Chair: Brad Carr bcarr1@uwyo.edu

Save the Dates!



SAGEEP 2015 Preliminary Technical Session Topics

Review the session topics listed below in preparation for online abstract submission. Session topics are divided into two categories: Applications Focused and Methods Focused. Select the session topic listed under these categories that would best fit your abstract. There is also an option to select "Let the Session Organizers Decide" that can be used if you do not see a suitable topic for your abstract. Final topics will be adjusted depending on numbers and subjects of submitted abstracts. Questions? Contact Brad Carr, Technical Chair (bcarr1@uwyo.edu).

Focus on Applications

- Agricultural Geophysics
- Archeological Geophysics
- Engineering Geophysics
- Geophysics and Geologic Hazards
- Geophysics Applied to Water Resources
- Geophysics in Climate and Critical Zone Studies
- Geophysics for Contaminant and Site Remediation
- Geophysics in the Oilfield: Contaminants, Water Demand, Induced Seismicity, and Hydraulic Fracturing
- Integrated Near Surface Geophysics Case Histories
- Material Property Measurements
- Mining and Reclamation Geophysics
- Multi-scale Geophysical Investigations of the Edwards Aquifer and Similar Karst Hydrogeophysics
- Non-technical Issues and Barriers to Applications of Geophysics
- Polar and Planetary Geophysics
- Transportation and Infrastructure Geophysics
- UXO and UXO Sensor Technology

Focus on Methods Advances

- Airborne Geophysics, Remote Sensing, and UAV (Drone)-based Surveys
- Borehole Geophysics
- Electromagnetics and Magnetotellurics
- Geophysical Database Management
- GPR and EMI in Complex Environments: Emerging Concepts, Methods, and Data Analysis
- GPR Instruments, Acquisition, Processing, and Analysis
- Gravity and Magnetic Methods: Engineering and Environmental Applications
- HVSR and Passive Seismology
- Near Surface Geophysical Data Analyses, Integration, and Processing
- Near Surface Geophysical Sensor Technology
- Near Surface Geophysics across Hydrologic Interfaces: Imaging Hyporheic, Lacustrine, Shallow Marine, and Underwater Environments
- Near Surface Seismic Reflection and Refraction
- NMR for Near-surface Investigations (Development and Applications)
- Novel Environmental/NS Geophysics Methods
- Resistivity/Induced Polarization/Self-Potential Methods and Applications
- Shallow Marine and Underwater Geophysics
- Surface-wave Seismology for Engineering and Environmental Geophysics (Ken Stokoe Honorary Session)