



SOCIETY OF EXPLORATION  
GEOPHYSICISTS  
NEAR-SURFACE GEOPHYSICS  
TECHNICAL SECTION

# Near-Surface Views

Newsletter of the NEAR-SURFACE GEOPHYSICS Technical Section  
of The Society of Exploration Geophysicists ([www.seg.org/ns](http://www.seg.org/ns))

Third Quarter 2019, Vol. 26, No. 3

## Letter from the Chair

Dear friends,

This will be my last letter as the Near-Surface Technical Section chair. After our annual meeting in San Antonio this September I will step down as chair and Chester Weiss will become our new chair. I would like to welcome Chester to the role. We all look forward to assisting him in any way possible to make our community better served.

In the previous newsletter I mentioned the technical program we have for San Antonio. This will be also a great year for Near-Surface during our annual meeting with 5 oral sessions and three poster sessions. We will also have three special technical sessions, as well as one panel discussion, post-convention workshop, and Near Surface Summit. We will have our social event this year at the Iron Cactus restaurant, from 7PM to 10PM on Tuesday. I hope to see you all there.

I would also like to mention the election process for the NSTS leadership concluded on July 1<sup>st</sup>. We had two outstanding options for chairperson: Mrs. Cathy Truffert and Mr. Jean Legault. I want to thank both of them for participating and congratulate Cathy on her election as the new NSTS Chair-Elect position. For Vice-Chair, John Goff was elected, and Sarah Morton Rupert was elected for Vice-Chair of Committees. Kennedy Doro got elected for our new Global Chair position, which will help expand our activities and presence worldwide. Lia Martinez will continue as secretary until 2020. The NSTS has a new structure based on the latest leadership roles and responsibilities approved by the SEG board in March. The approved changes aim to better distribute leadership responsibilities between members to improve efficiency of our actions. As part of our new leadership we also have appointed positions. For these we have Ariel Lellouch for Publications Lead in Geophysics, Steve Sloan for Publication Lead for TLE, Kristen Burke for Membership Communication and Newsletter Editor, Morgan Sander-Olhoeft for Student Programs, Stephanie Barde-Cabusson for Continuing Education, and Sajad Jazayeri as our Social Media publisher. We are still in the process of finding volunteers to fill the positions of Publication Lead of Interpretation, Student Programs Lead, Finances & Grants Lead, Session & Workshop Leaders (for other than annual meeting) as well as Global Vice-Chair and Representatives for the various regions of the world.

I am also glad to inform that we held last week, and for the first time, an online orientation meeting with the incoming NSTS leadership. We hope this task will continue for future elected groups. From my end I want to thank Laurie Whitesell for her continuous support, help and fantastic ideas that help our group function well. It was a pleasure serving this wonderful community and hope I was able to be of assistance.

José R. Arce  
Near-Surface Geophysics Technical Section Chair



### Member News

Please join us in celebrating  
our members!

Congratulations to  
Dr. Kennedy Doro who joins  
the U. Toledo faculty as a  
Tenure-Track Asst.  
Professor.

Have exciting news about  
yourself, a student, or  
colleague? Email us to have it  
featured here!

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### Annual Meeting

#### Reminders:

The GWB Reception is  
Monday, 16 Sept from  
6-7 PM, visit the GWB Booth  
for more details.

The NSTS Reception is  
Tuesday, Sept 17 from  
7-10PM at the Iron Cactus.

SEG members are invited to  
the Members-Only Breakfast  
Wednesday, 18 Sept from

- P. 1 - Near-Surface Election Results and 2019-2020 NSTS
- P. 2 - 2019 Harold Mooney Award - Jonathan Ajo-Franklin
- P. 3 - 2019 Virtual Near-Surface Global Lecturer - Rosemary Knight
- P. 4 - SEG International Exposition and 89th Annual Meeting
  - P. 4 - Annual Meeting Near-Surface Schedule
  - P. 5 - Panel Discussion: Solving Near-Surface Problems with Geophysics and Engineering
  - P. 6 - Summit Opportunity: Near-Surface Geophysics for Archeological and Forensic Applications
  - P. 7 - NSTS Evening Reception
- P. 7 - NSTS Student Program
  - P. 7 - Scholarship Deadlines
  - P. 8 - Highlighted Career Articles
- P. 9 - Call for Nominations - AGU Awards, Medals, and Honors
- P. 11 - Calendar of Upcoming Events and Call for Journal Articles
  - P. 13 - 2019 Student Virtual Conference
  - P. 14 - 2019 ICEG Technical Program and Pre-Conference Short Course
  - P. 15 - SAGEEP 2020
  - P. 16 - GPR 2020 International Conference
- P. 17 - Stay in Touch with SEG and the NSTS
- P. 18 - SEG and NSTS Member Benefits
- P. 19 - Research Funding Opportunities
- P. 20 - Job Postings

Please join us in welcoming the newly-elected members of the  
2019-2020 Near-Surface Leadership:



Catherine Truffert  
Chair-Elect



John Goff  
Vice Chair



Sarah Morton Rupert  
Vice Chair of Committees



Kennedy Doro  
Global Chair

2019-2020 NSTS Leadership:

Chester Weiss, Chair  
Catherine Truffert, Chair-Elect  
Jose Arce, Past Chair  
John Goff, Vice Chair  
Lia Martinez, Secretary  
Sarah Morton Rupert, Vice Chair of Committees  
Kennedy Doro, Global Chair

Stephanie Barde-Cabusson, Continuing Education  
Kristen Burke, Membership Communication and Newsletter Editor  
Morgan Sander-Olhoeft, Student Programs  
Ariel Lellouch, Publications Lead for Geophysics  
Steve Sloan, Publications Lead for The Leading Edge  
Sajad Jazayeri, Social Media

### Biography

Jonathan Ajo-Franklin is a Staff Scientist in the [Energy Geoscience Division](#) at Lawrence Berkeley National Laboratory (LBNL). He received his BA in Computer Science and History at Rice University (1998) followed by an MS (2003) and PhD (2005) in Geophysics at Stanford University. His graduate work focused on high-resolution crosswell geophysics applied to environmental site characterization. From 2005 to 2007 he was a postdoctoral fellow at the Earth Resources Laboratory at MIT. Since 2007, he has led a group at LBNL, first as a researcher (2007-2013) and since 2013 as a staff scientist. He leads the Environmental and Applied Geophysics Lab (EAGLe) and the Reservoir Processes group in the [Center for Nanoscale Control of Geologic Carbon](#) (NCGC).

Jonathan's research focuses broadly on using geophysical techniques to understand dynamic alterations in subsurface properties of relevance to the environmental and energy sectors. His technological focus in the field is on novel acquisition approaches including semi-permanent seismic sources and fiber-optic distributed acoustic sensing (DAS). He is active in several research efforts applying timelapse borehole seismology to geologic carbon sequestration (GCS), geothermal energy production, and hydraulic fracturing. He also leads projects exploring the use of large fiber optic arrays and DAS for geotechnical monitoring (in permafrost environments) and hydrogeologic monitoring at the basin scale. At a smaller length scale, he has a research program examining the rock physics of GCS, thermo-mechanical fracturing, and permafrost processes at the pore to core scale using dynamic (4D) synchrotron micro-tomography.

Jonathan has been an active member of the American Geophysical Union since 1997 (Near Surface Section) and a member of the Society of Exploration Geophysics since 1996; he was a special (2009-2011) and then associate editor (2011-2016) for *Geophysics* and is currently a member of the SEG Council (District 3).

Biography from the [EESA webpage](#).





**Advancing the use of geophysical methods for sustainable groundwater management**  
Wednesday, October 9, 2019 7PM Pacific

**By Rosemary Knight**  
Center for Groundwater Evaluation and Management  
Dept. of Geophysics, Stanford University  
Stanford, California, USA



Throughout the world, there is growing recognition of the need for sustainable management of our groundwater resources. Sustainable management commonly builds on the development of a groundwater model, which can be used to predict and assess the impacts of changing conditions (e.g. climate, land use) and changing water demands on the groundwater system. The critical challenge is acquiring the data required to both develop an accurate groundwater model and to monitor changes in the groundwater system. Over the past decade, in collaboration with water agencies and with other scientists in academia and the private sector, we have advanced the use of borehole, surface, airborne and satellite geophysical methods to map and monitor groundwater systems at scales ranging from sub-

meter to tens of kilometers. Examples include the use of interferometric synthetic aperture radar (InSAR) data to monitor changing water levels; the use of an airborne electromagnetic (AEM) method and electrical resistivity tomography to map the architecture of groundwater systems and coastal saltwater intrusion; and the integration of InSAR and AEM data to predict subsurface properties. These examples demonstrate the significant role that geophysical methods can play, and should play, in the sustainable management of our groundwater resources.

## Biography

**Rosemary Knight** has worked for more than 30 years on the challenge of using geophysical methods to image groundwater systems. Her research ranges from carefully controlled laboratory experiments to large-scale field experiments, all designed to explore new ways of remotely imaging hydrologic properties and processes. In 2008, Knight founded the Center for Groundwater Evaluation and Management, with the vision of advancing and promoting the use of geophysical methods through the development of partnerships - with real people, in the real world, with real problems. Knight has been active within the Society of Exploration Geophysicists, serving as Second Vice-President and Distinguished Lecturer, and within the American Geophysical Union, serving as the founding Chair of the near-Surface Geophysics Focus Group, and as Associate Editor for Water Resources Research and the Journal of Geophysical research. Current and past students and post-doctoral scientists within her research group all share her commitment to finding new ways to use geophysical methods to support the sustainable management of our groundwater resources.

Lecture Format: Virtual Webinar, 45 minute presentation followed by 15 minutes of Q&A.

[Register for FREE now](#)



## Annual Meeting Near-Surface Schedule

Date	Time	Room	Session Title
Monday 16 Sept	1:50-5:10 PM	217C	NS 1: Dynamic Coastal Environment: Crossing the Land/Sea Interface
		303B	SS 2: Geoscientists Without Borders and Humanitarian Geophysics
Tuesday 17 Sept	8:30-11:50 AM	217C	NS 2: Engineering Geophysics
		301B	SS 3: SEG/AGU Hydrogeophysics
	9:20-11:50 AM	***	NS P1: Machine Learning and Airborne Geophysics
	12:05-1:05 PM	221A	<a href="#">Solving Near-Surface Problems with Geophysics and Engineering</a>
	1:50-5:10 PM	217C	NS 3: Imaging and Modeling 1
	7:00-10:00PM		SEG Near-Surface Technical Section Evening Reception
Wednesday 18 Sept	9:20-11:50 AM	***	NS P2: Novel Methods
	1:50-5:10 PM	221C	NS 4: Applications for Archaeology, Void, and Target Detection
		225C 304B	NS 5: Imaging and Modeling 2 SS 8: Surface Wave Method Applications
1:50-4:20 PM	***	NS P3: Seismic Processing and Applications	
Thursday 19 Sept	8:30-5:00PM	217D	<a href="#">Near-Surface Geophysics for Archeological and Forensic Applications</a> <i>0.75 CEUS</i>
	8:30-12:00PM	221-304	<a href="#">W-21: Ambient Noise Imaging and Monitoring for High-resolution Spatial and Temporal Near-surface Characterization and Exploration Seismology</a>

**\*\*\*All Poster Presentations will take place in the Exhibit Hall.  
See the full technical program schedule [HERE](#).**



**Panel Discussion: Solving Near-Surface Problems with Geophysics and Engineering**

Please join the NSTS for this Panel Discussion following the Engineering Geophysics Oral Session on:

Tuesday, September 17, 2019  
12:05 PM- 1:05 PM  
Convention Center: Room 221A

**Description:**

Engineers and geophysicists often focus on the same near-surface problems, and in some cases collaborate on the same projects, but information can sometimes get lost in translation. It is important that both professions utilize each other's expertise effectively so that these problems can be solved efficiently to reduce the opportunity for future failures. This panel aims to provide students and professionals with a better understanding of how the engineering and geophysical communities are working together and how they can work together better. Panelists will include engineering and geophysics faculty members as well as working professionals in the engineering sector to provide perspectives from research and development to practical applications.

**Panelists:**

Dr. Stacey Tucker-Kulesza, Kansas State University  
Dr. Joseph Coe, Temple University  
Dr. Mark Everett, Texas A&M University  
Jacob Spinsby, Terracon  
Sarah Morton Rupert, Kansas Geological Survey (Moderator)



### Summit Opportunity: Near-Surface Geophysics for Archeological and Forensic Applications

Are you interested in the application of geophysical methods for archeological and/or forensic research?  
Then consider attending this special workshop offered at the 2019 SEG Annual Meeting!

Thursday, September 19, 2019

8:30 AM - 5:00 PM

Participants can receive 0.75 CEU's for attending!

The full day workshop will introduce participants to:

1. The different geophysical methods that are commonly used for these investigations
2. The types of targets that are commonly identified at these sites
3. Strategies for survey design when collecting data at these sites
4. Strategies for interpreting and/or ground-truthing the data collected
5. Best practices for working with the broader community at these sites
6. Possible funding mechanisms for national and international studies

The workshop will teach participants how geophysicists can be valuable collaborators for these investigations and aid in the planning for identifying unknown sites and future excavation or preservation plans. We invite participants with backgrounds in geophysics or archeology to participate.

Workshop leaders:

Dr. Blair Schneider, University of Kansas

Dr. Recep (Ray) Cakir, Washington Geology Survey

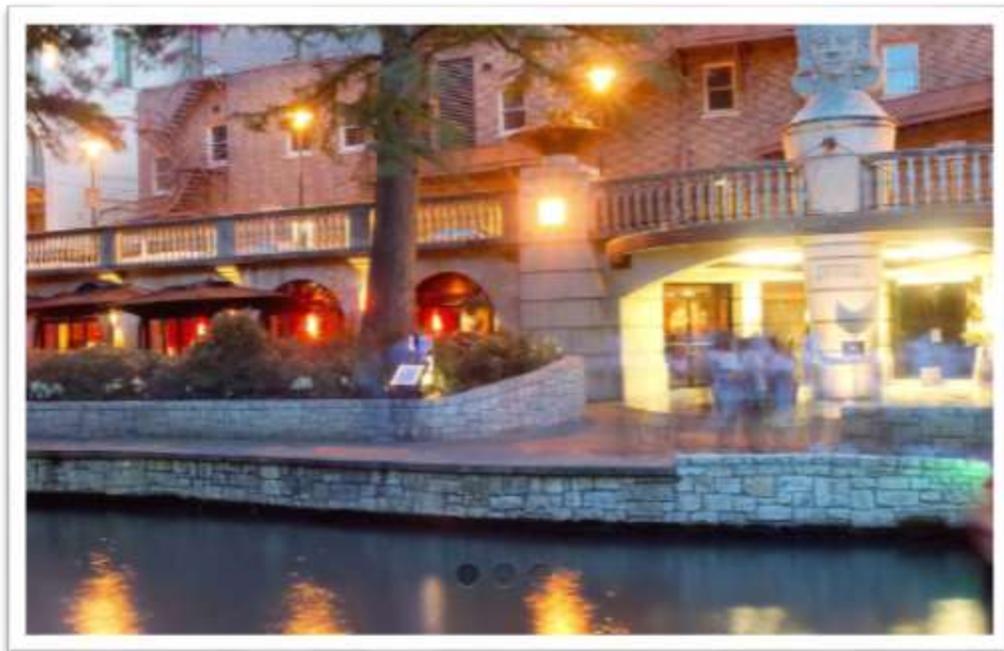
Dr. Jeffrey Shragge, Colorado School of Mines

Workshop cost: \$225/non-members, \$125/member, \$55/non-student, \$35/student member

Questions? Contact Blair Schneider at [blair@ku.edu](mailto:blair@ku.edu)

You're invited!

Near Surface Geophysics Technical Section Evening Reception

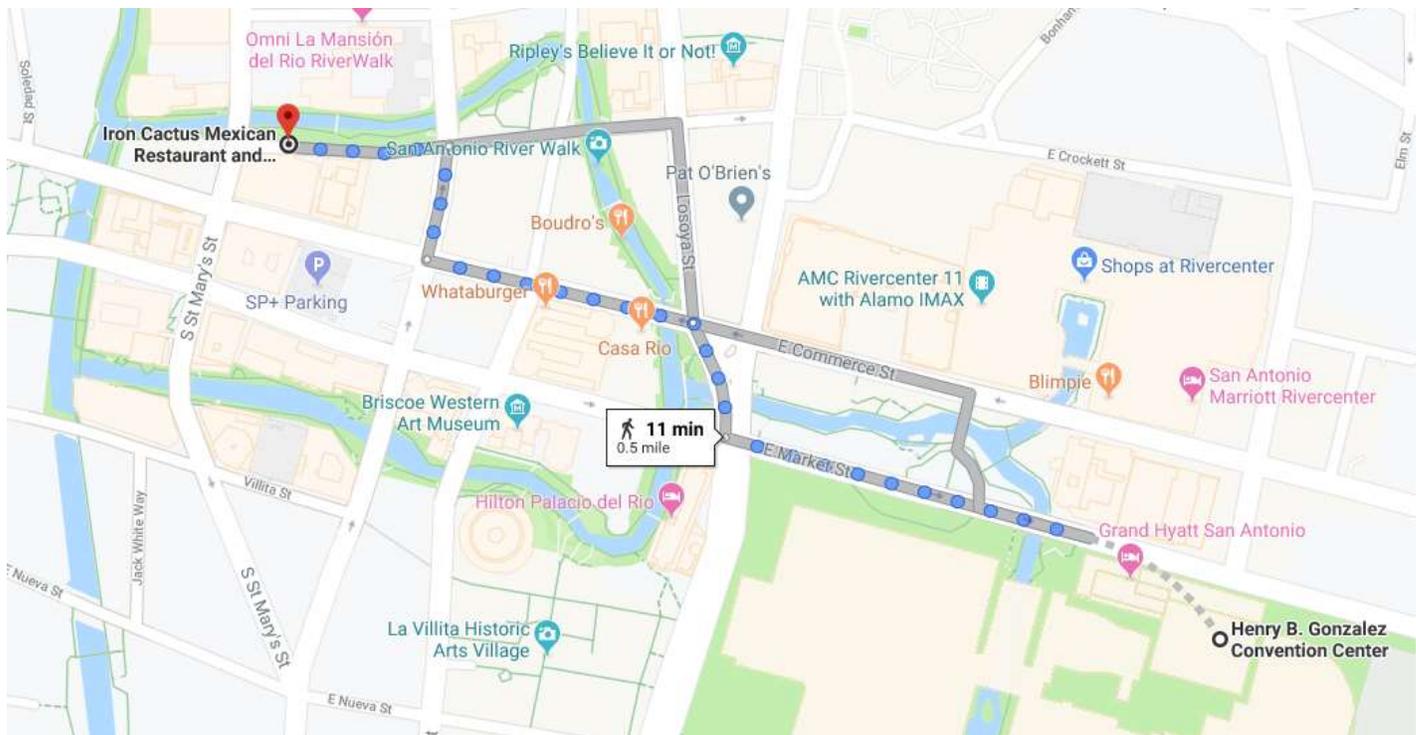


**Date and Time:**

Tuesday 17 September  
7:00 - 10:00 PM

**Location:**

Iron Cactus  
200 River Walk Suite 100  
San Antonio, TX 78205



Be sure to register for this reception when you are registering for the Annual Meeting!

### SEG Student Scholarships:

Award:	Award Amount	Deadline to Apply
<a href="#"><u>Near Surface Student Article Prize</u></a>	\$250	Rolling
<a href="#"><u>SEG Field Camp Award</u></a>	\$1,000-20,000	Closed for 2019
<a href="#"><u>SEG Student Scholarships</u></a>	\$500-10,000 per year	Closed for 2019
<a href="#"><u>Near Surface Research Award</u></a>	\$1,000	Closed for 2019
<a href="#"><u>SEG Student Education Program (SEP)</u></a>	Program Acceptance, Possible Travel Grant to SEG 2019	Closed for 2019
<a href="#"><u>SEG Student Leadership Symposium (SLS)</u></a>	Program Acceptance and Travel Grant to SEG 2019	Closed for 2019
<a href="#"><u>SEG Technical Program Travel Grant</u></a>	Full expenses to Annual Meeting	Closed for 2019

Congratulations to the following NSTS Students who received SEG Travel Grants!

Erik Knippel  
 Ogochukwu Ozotta  
 Sarah Morton Rupert  
 Chen Wang

### Other Student Grant Opportunities:

[Ford Foundation Fellowship Programs](#) - Due 3 September 2019

The 16th Sinkhole Conference, Beck Student Scholarship [Call for Applications](#) - Due 14 October 2019

[NRC Research Associateship Programs](#) - Upcoming Application Cycle closes 1 November 2019

[Jerome M. Paros Scholarship in Geophysical Instrumentation](#), AGU - Due February 2020

### Skill-building and Career Advice:

- [8 Tips to Improve your CV](#)
- [The Importance of Strategic Post interview Follow-Up](#)
- [Four Ways to Influence your Bosses without Alienating them](#)
- [Practicing Leadership as an Introvert](#)
  
- [How to Plan for Strategic Planning](#)
- [How to Teach a Good First Day of Class](#)
- [Ways to Juggle Fieldwork with Kids in Tow](#)
- [Conference Attendance Boosts Authorship Opportunities](#)

### How to Video Series – Learn from the EAGE Experts:

- How to Submit a Good Abstract [Part 1](#) and [Part 2](#)
- How to Get Published [Preview](#), [Part 1](#), and [Part 2](#)
- How to Present to a Live Audience [Preview](#), [Preparation](#), and more

Looking to make a contribution?



Go to: <https://donate.seg.org/Near-Surface> to donate today!

**Your Near Surface Colleagues Deserve Recognition!!**

Please considering nominating your colleagues for [AGU Awards, Medals, and Honors](#). Below is a table of all awards and medals that we can nominate people for. Please scan the table and send any suggestions for nominees to Adam Mangel (amangel@mines.edu) and Lee Slater (lslater@newark.rutgers.edu).

**Nominations are due in April 2020! We can help.**

Honor Name	Scope Statement	Career Stage
Bowie Medal	For outstanding contributions for fundamental geophysics and for unselfish cooperation in research	Senior Scientist
Devendra Lal Medal	For outstanding Earth and/or space sciences research by a scientist belonging to and working in a developing country	Early Career; Middle Career
Horton Medal	For outstanding contributions to hydrology	Senior Scientist
Joanne Simpson Medal	For significant contributions to the Earth and space sciences by and outstanding mid-career scientist	Middle Career
Macelwane Medal	For significant contributions to the geophysical sciences by and outstanding early career scientist	Early Career; Middle Career
Africa Award Earth/Ocean Sciences	For completing significant work that shows the focus and promise of making outstanding contributions to research in Earth or ocean sciences by an early career scientist from the African continent.	Early Career
Ambassador Award	For outstanding contributions to one or more of the following area(s): societal impact, service to the Earth and space community, scientific leadership, and promotion of talent/career pool.	Early Career; Middle Career; Senior Scientist
Education Award	To acknowledge a sustained commitment to excellence in geophysical education by a team, individual, or group.	Middle Career; Senior Scientist
Falkenberg Award	For recognition of an early- to middle-career scientist who has contributed to the quality of life, economic opportunities and stewardship of the planet through the use of Earth science information and to the public awareness of the importance of understanding our planet.	Early to Middle Career
Flinn Award	For recognition to an individual or small group who personifies the Union’s motto ‘unselfish cooperation in research’ through their facilitating, coordinating, and implementing activities.”	Middle Career; Senior Scientist
International Award	In recognition “for making an outstanding contribution to furthering the Earth and space sciences and using science for the benefit of society in developing nations.	Middle Career; Senior Scientist

## Call for Nominations – AGU Awards, Medals, and Honors cont.

Honor Name	Scope Statement	Career Stage
Kaula Award	For unselfish service to the scientific community through extraordinary dedication to, and exceptional efforts on behalf of the Union's publications program.	N/A
Science for Solutions Award	For significant contributions in the application and use of the Earth and space sciences to solve societal problems.	Current Student; Postdoctoral Scientist
Smith Award	For extraordinary service to geophysics.	Senior Scientist
Spilhaus Award	For their enhancement of the public engagement with Earth and space sciences.	Early Career; Middle Career; Senior Scientist
Climate Communication Prize	For the communication of climate science.	Early Career; Middle Career; Senior Scientist

**Reminder, nominations are due in April 2020!**

Visit the [AGU Honors website](#) for more information.

## Calendar of Upcoming Events

Events	Location	Date(s)	Submissions	Registration
<a href="#">2019 SEG Annual Meeting</a>	San Antonio, Texas	15-20 Sept 2019	Closed	<a href="#">Open</a>
<a href="#">South African Geophysical Association Conference</a>	Durban, South Africa	6-9 Oct 2019	Closed	<a href="#">Open</a>
<a href="#">Fifth ICEG</a>	Al Ain, UAE	21-24 Oct 2019	Closed	<a href="#">Open</a>
<a href="#">Geophysics in the Critical Zone</a>	London, England	11-12 Nov 2019	Closed	<a href="#">Open</a>
<a href="#">2019 SEG Student Virtual Conference</a>	Online	13 Nov 2019	1 Oct 2019	<a href="#">Open</a>
<a href="#">SEG-EAGE Workshop: Geophysical Aspects of Smart Cities</a>	Singapore	10-12 Dec 2019	Closed	Open
<a href="#">Geo-Congress 2020</a>	Minneapolis, MN	25-28 Feb 2020	Closed	Opens 17 Oct
<a href="#">2020 SAGEEP</a>	Denver, CO	29 March-2 April, 2020	4 Oct 2019	Opens Dec 2019
<a href="#">The Sinkhole Conference</a>	San Juan, Puerto Rico	20-24 April 2020	Closed	<a href="#">Open</a>
<a href="#">GPR 2020</a>	Golden, CO	14-19, June 2020	30 Nov 2019	<a href="#">Opens 2020</a>
<a href="#">ISSMGE</a>	Budapest, Hungary	7-11 Sept 2020	Closed	<a href="#">Opens Oct 2019</a>
<b>2020 SEG Annual Meeting</b>	Houston, Texas	11-16 Oct 2020	1 April 2020	TBA

Coming Soon:

GPR 2022 at Jilin University in China

## Upcoming Journal Submission Deadlines

Journal	Issue	First Deadline	Publication Date
<b>The Leading Edge</b>	Borehole geophysics	Closed	Nov 2019
<b>Interpretation</b>	Shallow urban underground cavity survey technology and environmental geophysics	1 October 2019	August 2020
<b>Interpretation</b>	Interesting features (aka funny looking things) seen on seismic data	1 February 2020	November 2020



EUROPE REGIONAL  
ADVISORY COMMITTEE

# 2019 Student Virtual Conference

**Call for abstracts: 1 August - 1 October**

*PhD, Masters or final year undergraduate students  
from any geoscience are invited to attend!*

**New virtual conference aimed at helping early-career  
geoscientists network with each other and share their  
work in a short-format setting.**

More info [HERE](#)

- 10 min. talks with 2-3 min. Q&A
- Abstracts: 100-250 words + 1 pic. in English
- Submit abstract: [student.conference@seg.org](mailto:student.conference@seg.org)

- Share research ideas
- Network with peers across Europe
- Science communication

Date: 13 November 2019

11:00 AM – 4:00 PM, London Time, +1 UTC

\*\*Please note this opportunity is only open to Students at European Universities.

October 21-24  
أكتوبر 2019



المؤتمر العالمي الخامس  
للجيوفيزياء الهندسية  
Fifth International Conference  
on Engineering Geophysics

# REGISTER NOW

**TECHNICAL SESSIONS:**

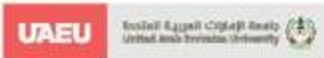
- Engineering Geophysical Methods
- Geothermal and Underground Storage
- Engineering & Geotechnical Geophysical Methods
- Advanced Geophysical Tomographic Methods & AI in Near Surface Characterization
- Hydrogeology & Hydrogeophysics
- Method Integration, Innovative Approaches, & Joint Inversion
- Near Surface Geophysics to Improve Exploration Geophysics
- Geohazards
- Time Lapse Monitoring & Shallow Seismic
- Best of ICEG
- Geotechnical/Geophysical Determination of Properties and Parameters

**PANEL DISCUSSION ON "THE ROLE OF ENGINEERING GEOPHYSICS IN THE CLIMATE CHANGE"**

**Panelists:** Ana Barros, Duke University; Kenji Tanaka, University of Tokyo; Tetsuya Sumi, Kyoto University

**Moderator:** John Bradford, Colorado School of Mines

[seg.org/events/iceg19](http://seg.org/events/iceg19)



October 21-24  
أكتوبر 2019



المؤتمر العالمي الخامس  
للجيوفيزياء الهندسية  
Fifth International Conference  
on Engineering Geophysics

# PRECONFERENCE SHORT COURSE



**PRACTICAL SEISMIC SURFACE WAVE METHODS - BASICS TO CUTTING EDGE**

**19 OCTOBER 2019, KHALIFA UNIVERSITY, ABU DHABI**

**With Julian Ivanov, Research Geophysicist/Programmer/Instructor,  
Kansas Geological Survey, University of Kansas**

Join instructor Dr. Julian Ivanov for a one-day short course that introduces the most important theoretical and practical aspects of the multi-channel analysis of surface waves (MASW) method by the lead research group at Kansas Geological Survey, where the method was originally developed. "Practical Seismic Surface Wave Methods: Basics to Cutting Edge," **19 October** at Khalifa University will expose attendees to the most current approaches for using Rayleigh, Scholte, and Love surface waves for the estimations of 1D shear-wave velocity ( $V_s$ ) vertical profiles to depths of a few tens of meters, extendable to 2D and 3D volumes. **Registration Rate: US\$295 members, US\$395 nonmembers**

[seg.org/events/iceg19](http://seg.org/events/iceg19)

HOST:  **جامعة خليفة  
Khalifa University**



**SAGEEP 2020**  
**DENVER | COLORADO**

33<sup>rd</sup> Symposium on the Application of Geophysics  
to Engineering and Environmental Problems

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1<sup>st</sup> Munitions Response Meeting

**SAVE THE DATE!**

**MARCH 29 – APRIL 2, 2020**

Important Dates:

Call for Abstracts Opens	8 August 2019
Call for Abstracts Deadline	4 October 2019
Registration Opens	December 2019
SAGEEP 2020	March 29 - April 2, 2020

[Submit your abstract today!](#)

**18<sup>th</sup> International Conference on Ground Penetrating Radar**  
**June 14-19, 2020 at Colorado School of Mines, Golden, Colorado, USA.**

The organizing committee would like to call your attention to the upcoming 18<sup>th</sup> International Conference on Ground Penetrating Radar, to be held from June 14-19 at the Colorado School of Mines in beautiful Golden, Colorado. A formal call for abstracts will be circulated in July 2019. The committee appreciates any efforts by the larger community to help circulate information about the conference.

**[Visit the GPR 2020 Website to Stay Updated!](#)**

**Who Should Attend?**

Those involved with the use of ground penetrating radar comprise a diverse community, including academic researchers, industrial scientists and engineers, government scientists, and policy makers. All are welcome to this conference, ranging from those just beginning to those with substantial expertise.

**Objective, Topics, and Plenary Panel Discussions**

*The Conference aims to bring together all who are interested* in the use of ground penetrating radar for any purpose, to review developments in the field over the previous two years, and to attempt to extrapolate for the near-term future.

*Topics that will be explored during the Conference include* novel developments of GPR systems and antennas, advanced data processing algorithms for improved subsurface imaging, radar data modeling approaches and inversion strategies for quantitative reconstruction of soil and material properties. Additional topics include data interpretation in a range of fields, including geology and sedimentology, glaciology, environmental and agricultural engineering (e.g., hydrological monitoring, digital soil mapping, forestry), civil and military engineering (e.g., utility detection, monitoring of transport infrastructures, nondestructive testing, landmine detection), archeology and cultural heritage, and planetary exploration, among others.

*The Conference will host four special plenary panel discussions* which will cover:

- GPR to help monitor impacts of climate change
- How GPR can help with developing and renewing infrastructure
- Biogeophysics and GPR
- Exploration of planets and other extraterrestrial bodies

GRP2020 will be an exciting Conference that will provide the opportunity for participants to be able to meet others in the field, to exchange ideas, expertise and experience, and to renew and form new friendships and working relations. The Conference is structured so that participants can learn from both formal and informal interactions, such as presented papers, posters and social events.

Visit the website at <https://gpr2020.csmSPACE.com/> for more details.



Have you renewed for 2019? Member benefits ended FEBRUARY 1<sup>st</sup>! Renew today!

If you would like to continue receiving email communications from the SEG as well as the Near-Surface Geophysics Technical Section, please OPT-IN!

How to OPT-IN:

Within **My Account** on <https://seg.org>, edit your email subscriptions by clicking **My Communications** on the left-hand side menu. From there, you can opt-in to receive this newsletter, *Near-Surface Views*, as well as the Near-Surface eTOC to stay up to date with the NSTS. We look forward to staying connected with you!

Near-Surface Views	Quarterly	<input checked="" type="checkbox"/>
SEG Near-Surface Geophysics Technical Section news		Yes
<hr/>		
Near-Surface eTOC	Quarterly	<input checked="" type="checkbox"/>
Near-Surface Geophysics Electronic Table of Contents (selected papers from <i>GEOPHYSICS</i> , <i>Interpretation</i> , and <i>The Leading Edge</i> )		Yes

## Have you renewed your SEG Membership?

### SEG Near-Surface Geophysics Technical Section Benefits:

1. Near-Surface Geophysics Technical Section elected leadership
2. Non-elected Near-Surface Geophysics Technical Section leadership positions open to students
3. Quarterly newsletter
4. Quarterly Electronic Table Of Contents
5. Quarterly TLE Near-Surface Geophysics non-technical focused article
6. Engineering and environmental geophysics competency management
7. SEG Near-Surface Student Research Award
8. Best Student Chapter Near-Surface newsletter Article Award
9. Mentoring365 membership as mentor or mentee
10. Access to SEG journals and other publications online\*

[Renew Here Today!](#)

\*Check the [SEG Dues Structure](#) for more details on publications and information about due-paying assistance.

### Has your company considered a Corporate Membership?

The benefits enjoyed by Corporate Members include:

1. Listing on SEG Web site's [exclusive Corporate Member page](#), including a link to your corporation's site
2. Listing in the official Annual Meeting program
3. Special recognition at the Annual Meeting
4. Right to publish affiliation with SEG and use of SEG corporate logo

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