



# Near-Surface Views

Newsletter of the NEAR-SURFACE GEOPHYSICS  
Technical Section of the Society of Exploration  
Geophysicists  
Second Quarter 2022, Vol. 29, No. 2

## Letter from the Chair

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Dear SEG Near-Surface Geophysics Technical Section members and friends,

I hope you all have had a good year so far. It has been a busy year. As previously announced by Anna Shaughnessy, SEG President, the Strategic Options Task Force concluded its work with the recommendation of adopting the option of creating a new SEG. The SEG Board has decided to accelerate the transformation of SEG as an independent organization. Changes are on the horizon for SEG with the creation of a Transformation Task Force. The process will assure SEG continues to be the leading technical society for applied geophysics. I trust that this path forward will provide many new opportunities that will excite and benefit our current and future members.



At the time of writing, the technical program of IMAGE'22 was finalized. The NSTS received a high number of high-quality abstracts. Due to space limitations, only 60% of submitted abstracts could be accepted. Consequently, some of you will be disappointed because your abstract was not accepted, or your preferred presentation type could not be honored. We believe it is important to have a meeting where the near-surface (NS) community has adequate space to present the latest research and network in a format that works best for this community. The NSTS leadership team is working on a proposal to hold an NS technical meeting in addition to an IMAGE meeting. This event will be possible only with a structure and business model that brings the entire community of applied geophysicists and users of applied geophysics together. Many non-geophysical businesses and organizations (e.g., geotechnical engineering companies, agriculture, regulatory agencies, or governments) use and rely on geophysics. We need to find ways to attract them to these meetings and cultivate closer collaboration. I encourage you to be engaged by providing feedback and suggestions or, better yet, to become actively involved in this initiative.

We are expanding NS's presence at IMAGE '22 taking place from 28 August 2022 to 2 September 2022 in Houston, TX. In addition to regular technical sessions, special sessions, and post-convention workshops, we have organized a strategic panel on the Industry of Mining and the Susceptibility of Natural Resources. The exhibit hall will include an NS pavilion for exhibitors and attendees to network and a theater for panel discussions and exhibitor presentations. The NS pavilion will host emerging focus panels covering topics like infrastructure, critical minerals, and education. We are looking forward to your participation in these events. Join us to exchange your latest advances and discoveries, and share your views on the future directions of NS geoscience.

As a reminder, if you haven't provided your input, you still have time to respond to a brief survey on the engagement and needs of our members. The NSTS leadership strives to develop activities that make a difference in the short and long term and foster a strong and unified NSTS. Please take this opportunity to provide your feedback, ideas, and concerns. We want to hear not only ideas for future activities but also what does not work or which current offerings are not important to you.

I look forward to hearing from you! Have a safe and productive summer.



Erika Gasperikova



Support the next generation of near-surface geophysicists by making a donation to the Near Surface Research Award Endowment today! <https://donate.seg.org/Near-Surface>

## 2021-2022 NSTS Leadership

Erika Gasperikova  
*Chair*

Lee Slater  
*Chair-Elect*

Gustavo Alves (Brazil)  
Oderson Antonio de Souza Filho (Brazil)  
*Latin America & Caribbean  
Representatives*

Julián Ramos (Argentina/Uruguay)  
*South America Representative*

Blair Schneider  
*Vice Chair*

Catherine Truffert  
*Past Chair*

Nadia Fantello  
*Vice Chair of  
Committees*

Yunyue Elita Li  
*Global Chair*

Ahzebobor Philips Aizebeokhai (Nigeria)  
Theophile Ndougsa Nidougsa Mbarga  
(Cameroon)  
*West Africa Representatives*

Veronica Pazzi (Italy)  
Sophie Hautot (France)  
Adnan Yaylaci (Turkey)  
Michael Arvanitis (Cyprus)  
*Europe Representative*

Christine Downs  
*Secretary*

Chih-Ping Lin  
*Global Vice Chair*

Subash Chandra  
Chevva. Krishnaiah  
*India Representatives*

Elisha Shemang (Botswana)  
*South Africa Representative*

Noah Dewar  
*Student Programs Lead*

Hakim Saibi (UAE)  
*Middle East Representative*

Xue Guoqiang  
*China Representative*

Niels Grobbe  
The Leading Edge  
*Publication Lead*

Currently vacant  
Geophysics  
*Publication Lead*

currently vacant  
*Finances and Grants Lead*

currently vacant  
*Continuing Education Lead*

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## Follow Us

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## On the Horizon

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*On the Horizon is a space to shine the spotlight on near-surface geophysics students. These are our future colleagues and leaders.*

## News

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### Leadership Elections

NSTS is holding an election for the following open positions— Chair-elect, Secretary, Global Vice Chair. Please take a moment to cast your vote by July 01, 2022. You can find the candidates' bios [here](#). Voting is reserved for current SEG members. A link has been sent via email as voting is reserved for active SEG members.



### Global Virtual Lectures

With the help of industry sponsors and affiliated societies, SEG selects industry experts each year to travel the globe offering lectures on the hottest geophysical topics. Lecturers typically speak for 45 minutes followed by 15 minutes for Q&A. Recordings are available after the last session. Below are our near-surface geophysics lecturers for 2022.

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#### Near Surface Global Lecture Program

A Watershed Moment for Critical Zone Geophysics  
*Susan Hubbard, 2022 Near-Surface Global Lecturer*

7 Sep 2022 10-11 AM Beijing Time  
[Register here](#)

#### Honorary Lecture Program

Near-surface scattering in seismic data: from signal to noise and noise to signal  
*Carlos Calderón-Macías, 2022 Latin American Honorary Lecturer*

16 Aug 2022 10-11 AM US Central Time  
[Register here](#)

6 Oct 2022 3-4 PM Rio de Janeiro Time  
[Register here](#)

Applications of fiber-optic sensing to borehole seismology  
*Ariel Lellouch, 2022 Middle East & Africa Honorary Lecturer*

15 Sep 2022 9-10 AM Israeli  
[Register here](#)

16 Nov 2022 10-11 Central Africa Time  
[Register here](#)

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Listening to Singapore: Harvesting urban noise for space, water, and hazard mitigation  
*Elita Li, 2022 South & East Asia Honorary Lecturer*

[View Recording](#)

Using Near-Surface Geophysics to Estimate Soil and Rock Physical Properties  
*Klaus Holliger, 2022 Europe Honorary Lecturer*

[View Recording](#)  
[Listen to Podcast](#)

## Call for Submissions: *The Leading Edge*

There are two more issues of *The Leading Edge* this year that are sure to be of interest to our near-surface members. Consider making your contribution by submitting an article (<https://mc.manuscriptcentral.com/tle>.) For assistance, contact [tle@seg.org](mailto:tle@seg.org).

Publication Date	Theme	Submission Deadline	Coordinator
November 2022	Geohazards	1 Jul 2022	Heather Bedle
December 2022	Seismic reservoir modeling	1 Aug 2022	TBD

## Global Subcommittee

*The SEG Near-Surface Geophysics Technical Section Global Subcommittee is recruiting regional representatives for the following regions: Europe, Eurasia, North Africa, East Africa, and SE Asia. If interested, please contact us at [ns@seg.org](mailto:ns@seg.org).*

## Special Recognition

Join us in congratulating our Global Subcommittee Chair, Elita Li, on receiving the Young Innovator Award at the 2022 Land Transport Excellence Awards (LTEA) in Singapore. This award recognizes individuals who have demonstrated innovative uses of technology to deliver smart, transformative solutions to Singapore's land transport system.

Dr. Li, Associate Professor in the Department of Earth, Atmospheric, and Planetary Sciences at Purdue University, and her team are working on a non-intrusive method to tunnel characterization. Smart BORING consists of geophones

## Student Subcommittee

As always, please visit the [Near Surface Facebook page](#) for more information about our student events or reach out ([ns@seg.org](mailto:ns@seg.org)).

The student subcommittee has some exciting events coming down the pike. The *Open-Source Software*



## Ask The Experts

*Ask The Experts* is student developed, organized, and conducted by the SEG Near-Surface Geophysics Technical Section Student subcommittee. It brings together subject matter experts on a variety of near-surface geophysics topical focus areas to answer student questions related to their areas of specialization.

2021 NSTS Photo Contest winning photo.  
Credit: Danney Glaser

The next *Ask The Experts* will be held at the Near-Surface Geophysics Pavilion at IMAGE '22 on Tuesday, August 30<sup>th</sup> at 12:15 pm. Our experts will be Nicole Pendrigh (engineering geophysics), Kennedy Doro (hydrogeophysics), John Goff (coastal geophysics) and Darren Burrows (airborne/mining geophysics). See you there!

## 2022 NSTS Photo Contest

### One Photo, One Sentence

Do you have a research-related photo you would like to submit? The submission period for this year's NSTS Photo Contest is 1 June - 1 Sep 2022. 1<sup>st</sup> place within each contestant group receives a \$50 voucher to the SEG Online Store for 1st place within each contestant group. Note that by submitting a photo, you are giving SEG and the NSTS of SEG permission to use your photo for promotional purposes. Please read the [eligibility and judging criteria](#) before sending your submission to [ns@seg.org](mailto:ns@seg.org).

## SEG-AAPG International Meeting for Applied Geoscience and Energy (IMAGE '22)

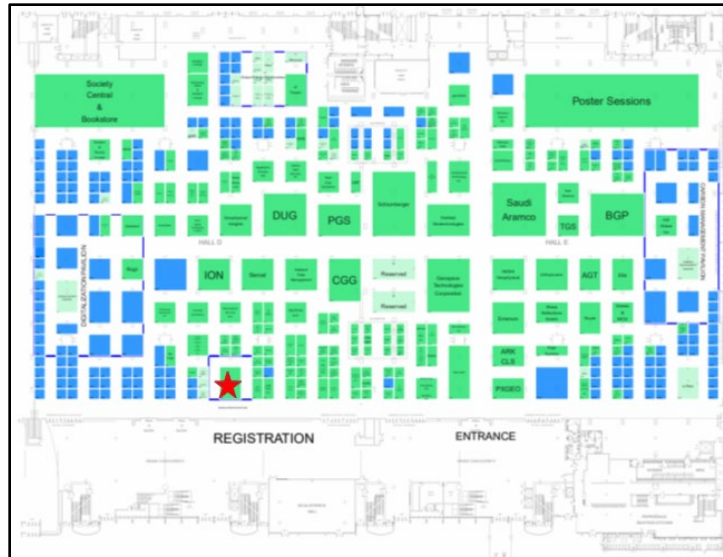
Monday, 29 August							
		8 - 9:40 AM	10:20 AM - 12 PM	Lunch	1:20 - 3 PM	3:40 - 5:20 PM	Evening
Oral Sessions	Room 342 B,C,E,& F	<b>SS 2 Career-Advancing Near-Surface Geophysics: From Rock Core to Watershed Scale: Recognizing the Achievements of Rosemay Knight, I</b>	<b>SS 2 Career-Advancing Near-Surface Geophysics: From Rock Core to Watershed Scale: Recognizing the Achievements of Rosemay Knight, II</b>				
Poster Sessions	Station #9		<b>NS P1 Advanced Processing and Machine Learning, I</b>		<b>NS P2 Water and Environmental Issues</b>	<b>NS P3 Imaging</b>	

Panels	NS Pavillion		Critical Minerals Panel 10:30 AM - 12L00 PM				
<b>Tuesday, 30 August</b>							
		8 - 9:40 AM	10:20 AM - 12 PM	Lunch	1:20 - 3 PM	3:40 - 5:20 PM	Evening
Oral Sessions	Room 370					SS 10 New Instrumentation	
Poster Sessions	Station #9		NS P4 Data Processing and Imaging				
Panels	Room GA B				Strategic Panel Industry of Mining/Susceptibility of Natural Resources		
	NS Pavillion		Orphan Wells Panel 10:30 AM - 12 PM	ASK THE EXPERTS 12:15 - 1:15 PM		Infrastructure Panel 1:30 - 3 PM	NS Reception (Marriott) 7 - 10 PM
<b>Wednesday, 31 August</b>							
		8 - 9:40 AM	10:20 AM - 12 PM	Lunch	1:20 - 3 PM	3:40 - 5:20 PM	Evening
Oral Sessions	342 A,D		NS 1 Imaging and Inversion		NS 2 Advanced Processing and Machine Learning, II	NS 3 Urban and Environmental	
	342 B,C,E, & F	SS 11 SEG/AGU Hydrogeophysics					
Panels	NS Pavillion		NS Academic Panel 10:30 AM - 12 PM				

Special Sessions	Regular Sessions	Strategic Panel	Emerging Focus Panels	Other Events
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## NS Pavillion

The Near Surface Geophysics Pavilion will host our Emerging Focus panel discussions and *Ask the Experts*. Please stop by. You will easily find us in the front row of the Exhibit Hall! Near-surface geophysics companies will be presenting in the NS pavilion too. Stop by the pavilion, enjoy a few panels and enjoy company presentations.



## Post-Convention Workshops

There will be three post-convention workshops that near-surface geophysics attendees will be interested in.

Thursday, 1 September		
	8 :30 AM - 12:00 PM	1:30 - 5:00 PM
Room(s) TBA	<b>W-10</b> GEM Methods (Gravity, Magnetic, Electrical and Electromagnetic) for Environmental Applications, 8:30 AM - 12 PM  <b>W-12</b> Geophysical Aspects of Smart Cities 8:30 AM - 12 PM	<b>W-6</b> Infrastructure Geophysics 1:30 - 5 PM



## Calendar of Global Events

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Events	Location	Date(s)	Submission	Registration
<a href="#">19th International Conference on Ground Penetrating Radar</a>	Golden, CO, USA	12-17 Jun 2022	Closed	Opening Soon
<a href="#">SEG-AAPG IMAGE '22</a>	Houston, TX	27 Aug - 2 Sept 2022	17 Mar 2022	Opening Soon
<a href="#">Near-Surface Imaging Workshop</a>	Muscat, Oman	27-29 Sept 2022	1 Jun 2022	Opening Soon
<a href="#">Summit on Drone Geophysics 2022</a>	Virtual	25-28 Oct 2022	10 Aug 2022	Opening Soon
<a href="#">2nd EAGE-SEG Workshop on Geophysics Aspects of Smart Cities</a>	Hong Kong	6-8 Dec 2022	30 Apr 2022	Opening Soon

Find SEG's full list of events on the [Global Calendar](#).

## Opportunities

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- PhD Position - Multi-scale high resolution near surface geophysics to image the soil-root zone of agricultural plants at the Forschungszentrum Jülich (Germany). Find information and apply [here](#). (via AGU Hydrogeophysics listserv)
- Geophysicist - Jacobs, Washington, DC [link](#)
- Geophysicist - HDR, Denver CO [link](#)
- Developmental Geophysicist - U.S. Geological Survey, Golden, CO [link](#)
- Field Geophysicist - Parsons, Colorado [link](#)
- Geophysicist Land - Fugro, Houston TX [link](#)
- Munitions Response Project Geophysicist - Golden, CO [link](#)