



# E.GEO

## MARCH 2023

### In This Month's Issue:

- Geowall Judges Needed
- 2022 Salary Survey Sent
- Regional Meeting Recap
- Upcoming Events
- New February Member
- New Job Opportunities

### Geopros:

**IMPORTANT** - If you are a licensed engineer in Southern California, please consider helping judge the Geowall competition at Hansen Dam in Lake View Terrace (just north of Burbank) on Friday, March 24. Please send a quick note expressing your interest to [nick@calgeo.org](mailto:nick@calgeo.org), and Nick will put you in touch with the appropriate contact.

**Organizational Member Firms** - We sent you the **2022 Salary Survey** data submission form this past Wednesday, March 1. If you did not receive it, you can find everything you need on our website [here](#). Feel free to reach out to Nick with any questions - [nick@calgeo.org](mailto:nick@calgeo.org).

We had our first regional meeting of the year at and about the LAX Automated People Mover on Wednesday, February 22. You can find those pictures and a recap below.

Besides a couple of events coming up in March, we have also opened registration for five April and May events in the past week. You can see those below.

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## Regional Meeting Recap - LAX Automated People Mover - February 22

More than 85 people registered for our first Regional Meeting of 2023, generously sponsored by Drinks and Table Sponsor [EagleLIFT](#) and Table Sponsor [Project X Corrosion Engineering](#). Read through the captions below to learn more about the event.



More than half of the attendees showed up by 5 PM to take a walking tour of the Automated People Mover.



As you can see by the flag in the background, it was a very windy (and cold) day with gusts over 30 MPH, so...



...it sure helped to have Group Delta CEO Mike Reader's booming voice guiding the way...



...explaining geotechnical and structural challenges encountered on the project, mostly related to having to conduct tests, place piles, and build the full support systems while maneuvering around massive amounts of underground utilities...



...all while keeping airport parking structures and roadways open and safe!



Obviously, the project still has a way to go, but more on that pressing question below!



After the tour, attendees packed into a loooooong room in the penthouse of the Hyatt Regency LAX overlooking the Automated People Mover...



...where Ed Hernandez of Table Sponsor [Project X Corrosion Engineering](http://www.projectxcorrosion.com) welcomed attendees and updated them on the firm's support services for geotechs.



Mike Reader, introduced by Mike Miller of Drinks & Table Sponsor [EagleLIFT](#), provided a very visually oriented presentation, which further illuminated the project's novel engineering strategies (including segmental construction as illustrated in the photo above).



There's Mike Miller! (far left, flanked by his So Cal rep Landon Richardson) asking Mike Reader a question during the Q&A. And, of course, Mike got peppered with the most important question we left hanging from above...



No guarantees, but the LAX APM is expected to open in the second half of 2023.

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## Upcoming Events

Jonathan Stewart and Dave Teague will present on Non-Ergodic (Site-Specific) Site Response and Its Utilization in Recent Non-Nuclear Engineering Projects. [REGISTER NOW](#) | [DOWNLOAD FLYER](#)



# **NON-ERGODIC (SITE-SPECIFIC) SITE RESPONSE AND ITS UTILIZATION IN RECENT NON-NUCLEAR ENGINEERING PROJECTS**

**WEDNESDAY, MARCH 8 | NOON - 1:30 PM | ZOOM**

## **JONATHAN STEWART, PHD**

*Professor, Civil & Environmental Engineering  
UCLA*



## **DAVE TEAGUE, PHD, PE**

*Associate  
ENGEO Incorporated*

### **Background**

Site-specific (partially non-ergodic) seismic hazard analysis is increasingly employed as part of ground motion hazard characterization for critical projects. Site-specific site response can be evaluated from the interpretation of ground motions recorded at (or near) the site or from simulations. The simulation method that is most frequently employed is ground response analysis, which can capture impedance, resonance, and nonlinear effects for vertically propagating shear waves. Such effects are often large contributors to site response, but are not sole contributors, as other effects related to basin geometry can also be influential, particularly at long oscillator periods.

### **Your Takeaways**

- We will describe procedures for conducting ground motion hazard analysis incorporating site-specific site response, including estimation of the mean site response, aleatory variability and epistemic uncertainty.
- We will describe open-source software tools that can be used to apply these methods.
- The challenges and benefits of applying these procedures will be illustrated through discussion of several case histories for California sites.

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Cary Hannon, Vice President of Foundation Technologies, will present on Helical Piles and Helical Anchors. This is an EP (Emerging Professionals) Webinar, which means its free for you! [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

**HELICAL PILES & HELICAL ANCHORS**  
**TUESDAY, MARCH 14 | 11:00 AM – 12:30 PM | Zoom**

**0.15 ICC-APPROVED CEU AVAILABLE**

**REGISTER NOW**



**Cary Hannon, PE**  
Vice President of Engineering

**Foundation Technologies, Inc.**

**OVERVIEW**

Participants will be given a theoretical, historical, and practical review of helical anchors used in earth retention structures and helical piles used in structures requiring deep foundation support.

**LEARNING OUTCOMES**

- Recognize potential applications of helical piles and anchors
- Understand the basic terms used to specify these products
- Select the most technically appropriate and cost effective material(s)
- Appropriately evaluate and review contractor submittals
- Demonstrate a clear understanding of the helical pile and anchor installation process

**PRESENTER BIO**

As the current Vice President of Engineering at Foundation Technologies, Inc., Cary Hannon holds a BCE from Georgia Institute of Technology. Working as a registered professional engineer, Cary spent 14 years as a civil/site consultant working in all sectors of the construction industry. Over the last 18 years, Cary has provided Engineers & Contractors throughout the Southeastern U.S. with technical design and application assistance of helical piles and anchors. Cary has developed and presented over 100 courses covering a wide range of topics associated with the design and construction of helical piles and anchors.

**Emerging Professionals Webinar**  
Brought to You by a  
Valued CalGeo Affiliate



\* Attendance is complimentary for all attendees. For ICC credit, enter the email associated with your ICC account at registration and attend the full webinar. Proof of attendance for ICC credits will be submitted complimentary for all CalGeo members who request it at registration. For nonmembers, the administrative fee for submission is \$20. Invoices will be sent after the webinar to nonmembers wanting ICC credit.

Three weeks are left for regular registration for Conference 2023. [REGISTER HERE](#) | [DOWNLOAD FLYER](#) | [BOOK HOTEL ROOM](#)


See the Regular column to see what you save by registering now rather than late!

RATE CHART: MEMBER/NONMEMBER	EARLY (FEB 10)	REGULAR (MAR 24)	LATE
FULL REGISTRATION	\$999/\$1099	\$1099/\$1199	\$1199/\$1299
SHORT COURSES			
MISSION CRITICAL MANAGEMENT	\$500/\$550	\$550/\$600	\$600/\$650
INSTRUMENTATION WITH GEOKON	\$400/\$550	\$450/\$500	\$500/\$550
PREVAILING WAGE WORKSHOP	\$300/\$350	\$350/\$400	\$400/\$450
FIELD TRIP	\$100/\$150	\$125/\$175	\$150/\$200
SIGNIFICANT OTHER SOCIAL ADD-ONS			
WEDNESDAY NIGHT RECEPTION	\$100/\$150	\$125/\$175	\$150/\$200
THURSDAY NIGHT BANQUET/CASINO	\$200/\$300	\$250/\$350	\$300/\$400

**REGISTER FOR CONFERENCE NOW**


Katie Aguilar and Simba Muchineripi of Seequent are presenting for us on The Transition to Open Ground (from gINT and


HoleBase). Change is coming, and we want to help ease the transition. This is a complimentary webinar! [REGISTER NOW](#) | [DOWNLOAD FLYER](#)



## THE TRANSITION TO OPENGROUND

TUESDAY, APRIL 20 | 11 AM – 12:30 PM | VIRTUAL






**KATIE AGUILAR, PE**  
*Senior Application Engineer, Geotechnical*  
**SEEQUENT**

In January 2023 it was announced that gINT and HoleBase would begin a retirement phase for support. By January 2026, support for gINT and HoleBase will end. This announcement was made with a three-year transition period to help users make an informed choice on their Geotechnical Information Management system.

This presentation will review the retirement timeline, as well as address options with OpenGround and migration paths for current gINT and HoleBase users. A high level overview of OpenGround will be given to introduce attendees to what OpenGround is.

We will conclude with an open Q&A. This is your opportunity to ask specific questions to Seequent team members whose focus is OpenGround.



**SIMBA MUCHINERIPI**  
*Customer Success Manager*  
**SEEQUENT**

Allen Cadden is a principal at Schnabel Engineering and a leader in the development of DIGGS for over a decade. This webinar will raise funds for CalGeo's Student Development funds. With those funds, we cover student registration for CalGeo's Annual Conference and other events, provide \$15,000+ in scholarships annually, support student chapters with annual sponsorships, and more. [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

# MAKING GEO DATA AVAILABLE: THE DIGGS SOLUTION

TUESDAY, APRIL 27 | 11 AM – NOON | VIRTUAL



**ALLEN CADDEN, PE, DGE**  
*Principal*  
SCHNABEL ENGINEERING

Data Interchange for Geotechnical and Geoenvironmental Specialists (DIGGS) was built for us. Computer technology advancement in our daily work and play life has shown us the value of ready access to data. Geotechnical data is just as important, and we now have a way to share it in an open format for use across the suite of applications we use every day, not just the ones that create PDF logs. Think about the power of easily using this data in all of our analysis tools, including the BIM model or long-term asset management tools.

This presentation will provide a brief overview of what DIGGS is and is not. We will discuss some examples of what is already being done with DIGGS-formatted data, and we will explore questions like: What will this cost? Who owns the data? Why would I ever want to share my data?

**MEMBERS**  
**NON-MEMBERS**

**\$25**  
**\$50**

EARLY REG PRICING ENDS TUESDAY, APRIL 6

**REGISTER NOW**

**All Net Proceeds Benefit CalGeo's Student Development Efforts**

## Biography

Allen is a Principal with Schnabel Engineering, Inc, in Chadds Ford, PA, where he provides senior leadership to the company's GeoStructural and Infrastructure Monitoring Services. Mr. Cadden received his BSCE and Master of Engineering from Virginia Tech and is a licensed engineer in ten states. He is an active member of ASCE, ADSC, and DFI technical committees and a Past President of the Geo-Institute of ASCE and the International Society for Micropiles and is currently a Trustee for the Deep Foundations Institute (DFI). Allen has been supporting the development and implementation of DIGGS for nearly a decade.

Our May 2023 Regional Meetings focus on how critical thinking can result in loss prevention and saved lives. Aaron Mann, General Counsel and Principal at Terracon will provide his talk, Ethical Strategies for an Irrational World, at two unique venues.

[DOWNLOAD FLYER](#) | [REGISTER FOR NOR CAL \(MAY 3\)](#) | [REGISTER FOR SO CAL \(MAY 4\)](#)



**MAY 2023 REGIONAL MEETINGS**  
**WEDNESDAY, MAY 3 - NOR CAL | THURSDAY, MAY 4 - SO CAL**  
**6 PM EAT | 7 PM LISTEN**  
**\$85 CalGeo Member\* | \$95 Non-member | \$25 Student\*\***

**REGISTER  
NOR CAL**

**REGISTER  
SO CAL**

**EARLY REG PRICING ENDS APRIL 14**



**AARON MANN, Esq**  
General Counsel / Principal  
**TERRACON**

**ETHICAL STRATEGIES FOR AN IRRATIONAL WORLD**

We've all heard of tricks of the eye before, but what about tricks of the mind? As much as we would like to believe that we are rational thinkers and we base our decisions on evidence alone, the reality is far more complicated.

This presentation will explore the tricks of the mind that affect all of us and threaten to mislead us daily. Whether being overly optimistic about a project's success, dismissing the risk to the public, or making poor choices to avoid a small loss, our most important decisions are often shaped by unrelated factors (including the time since we last ate). Though the effects may often be minor, they can lead to serious ethical lapses. At worst, they can lead to catastrophic results like the pedestrian bridge collapse at Florida International University or the Space Shuttle Challenger explosion, both of which we will explore Together, we will examine some of the mental shortcuts and illusions that are most commonly encountered by engineers. More importantly, we'll explore how to combat their impact in the workplace, and, hopefully, you will walk away thinking more critically about how you think.

*Aaron is a Principal with Terracon Consultants. He serves as their General Counsel overseeing risk management and litigation. For two decades, his law practice has focused on managing risk and resolving business disputes. Aaron regularly manages outside counsel acting on behalf of the company and works internally to troubleshoot project issues and avoid disputes before they escalate. He also handles internal investigations and helps implement Terracon's ethics program. He is a frequent presenter at past events hosted by ACEC, ACI, ASCE, GBA, NSPE, and others. Prior to joining Terracon in early 2016, Aaron was a partner at Husch Blackwell, an AmLaw 100 law firm, where his practice focused on commercial and cross-border litigation. While with Husch Blackwell, he spent four years in the firm's London office. His career began as a judicial clerk for a U.S. District Judge in Kansas City, Missouri. He earned his J.D. from Creighton University School of Law in 2001.*

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+ TABLE SPONSOR**



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TABLE SPONSOR**



**MAY 4 @ HOT RODS & HANDGUNS**  
5872 ENGINEER DRIVE  
HUNTINGTON BEACH, CA 92649



**MAY 3 @ SKATES ON THE BAY**  
100 SEAWALL DRIVE  
BERKELEY, CA 94710



\*Government employees receive member pricing. Questions? Email [info@calgeo.org](mailto:info@calgeo.org). Registration includes tour, talk, dinner, and non-alcoholic drinks. Events with a drinks sponsor include at least one alcoholic drink. Registrations are transferrable but non-refundable.  
\*\*First 10 students will have their registration fee refunded upon attendance. To qualify the student must pay upon registration and attend the event.

Our Annual Southern California Golf Tournament is one of the prime ways in which we generate funds for Student Development (scholarships, student attendance at conference and other events, student chapters). Be part of building the next generation of geoprofessionals by playing in the tournament. Make an even bigger difference through tournament sponsorship. [REGISTER NOW](#) | [DOWNLOAD FLYER](#) | [DOWNLOAD SPONSORSHIP OPPORTUNITIES](#)



TIJERAS CREEK  
GOLF CLUB

**CALGEO**  
**SOUTHERN CALIFORNIA**  
**GOLF TOURNAMENT**  
**FRIDAY, MAY 12, 2023**

Tijeras Creek Golf Club  
29082 Tijeras Creek  
Rancho Santa Margarita, CA 92688

**REGISTER**

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## Membership

### February New Affiliate Member



[Saber](https://www.saber.com)

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## Invite Potential Members

Do you know a geotechnical consulting firm or another geoprofessional services firm in California who is not currently a CalGeo member? Please have any interested firms contact Nick Bundra at [nick@calgeo.org](mailto:nick@calgeo.org).

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## CalGeo Job Board & Career Center

### Want to try our job board?

CalGeo's Job Board provides Geoprofessional job listings. Featured posts are also published to the Google Jobs Network. To post a job, [click here](#). Members receive all job board options at half price.

### [Visit CalGeo's Career Center](#)

CalGeo



#### **FEATURED** Geotechnical Engineer (P.E.)

*Posted: Feb 15, 2023*

Applied Earth Sciences - Glendale, CA  
Full-time

Salary: \$120,000.00 - \$150,000.00 Annually  
Application Deadline: May 31, 2023



#### **Field Soils Technician**

*Posted: Feb 23, 2023*

Geotechnical Exploration, Inc. - San Diego, CA  
Full-time

Salary: \$48,000.00 - \$60,000.00 Annually  
Application Deadline: N/A



#### **Engineer / Geologist**

*Posted: Feb 22, 2023*

Pacific Crest Engineering Inc. - Watsonville, CA  
Full-time

Salary: \$60,000.00 - \$90,000.00 Annually  
Application Deadline: N/A

[View More Jobs](#)

## Upcoming CalGeo Events at a Glance

**March 8: Non-Ergodic (Site-Specific) Site Response and Its Utilization in Recent Non-Nuclear**

Engineering Projects [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

March 14: Helical Piles & Helical Anchors with Cary Hannon, PE (EP Webinar with ICC Credit Available) [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

April 12-14: CalGeo 2023 Annual Conference [REGISTER NOW](#) | [DOWNLOAD FLYER](#) | [BOOK HOTEL HERE](#) REGULAR REG ENDS FRIDAY, MARCH 24

April 20: The Transition to OpenGround (Complimentary) [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

April 27: Making Geo Data Available: The DIGGS Solution (Registration Supports Student Development) [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

May 3: Nor Cal Regional Meeting @ Skates on the Bay in Berkeley [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

May 4: So Cal Regional Meeting @ Hot Rods & Handguns in Huntington Beach [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

May 12: 2023 Southern California Golf Tournament at Tijeras Creek Golf Club [REGISTER NOW](#) | [DOWNLOAD FLYER](#) | [SPONSORSHIP OPPORTUNITIES](#)

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