



# E.GEO

## JUNE 2023

### In This Month's Issue:

- So Cal Golf Tourney Recap
- Supporting Sibling Associations - ASCE GI Los Angeles - Queen Mary Event
- Upcoming CalGeo Events
- New May Members
- Several New Job Opportunities

### Geopros:

Whether or not you were with us on May 12 smashing balls for students at Tijeras Creek Golf Club, you know you will have your golfing day in the sun at Almaden Golf & Country Club on August 21 where our sponsors are presenting several course contests, hosted beverages, post-golf prizes, and much more. [CLICK HERE](#) to register now, or just email your foursome to [nick@calgeo.org](mailto:nick@calgeo.org).

Learn more about our other upcoming events by scrolling further below, but don't forget to stop and enjoy the scenery of our So Cal Golf Tourney 2023 Recap!

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## So Cal Golf Tournament 2023 Recap

Just before the shotgun start on May 12 at Tijeras Creek Golf Club...



...Farrell Design-Build sponsored...



...an everyone-at-once putting contest (which apparently can lead to an inadvertent game of dodge the golf ball for the golf pro)...





...that Ryan Hanks used to unabashedly put Terracon in the spotlight. Yes, bosses, we promise he won!





Then, we were off to the races...





Swinging hard (incoming CalGeo Board Member Brian Skyers)...





...putting soft (yes, that's Ryan Hankes, seeing if he also has the magic touch out on the course)...







...and scoping out the course...





...generously sponsored by our Ace and Birdie Sponsors.





Meanwhile, amidst the views...



...the brews...





...and more views...



...the pressing question for all golfers was, "Will Aaron Bishop of WGI Geopier again lead his team to victory?"





The end of the day reception held the answer...





...a negative verdict if the contest winners were any omen of what was to come. There was not a single repeat Closest to the Pin or Longest Drive course contest winner from the 2022 Southern California Tournament (Jenae Decker and Ali Hansen of Bernards and Mike Cazeneuve of Taylor Group and Rob Sandquist of Blackburn Consulting), each being congratulated by Tijeras Creek Golf Club host Mike McChristie.





Neither was there a repeat among the "Most Honest" (aka, highest score) foursome, who received a prize that is a nod to our trip to the islands next April; (Joel Krwinski, Jim Starick, and Hugo Guerrero of Condon-Johnson & Associates, and Harry Derkalousdian of Geocon, not pictured, nobly took home the honor).



Our second place team, three strokes behind the leaders, were also fresh faces on the podium, Glenn Daniels and Brian Skyers of HD Geosolutions and Michael Murray and Mac Cabal of Lanak & Hanna, here congratulated by Ace Sponsor Farrell Design-Build and Kyle Wallace. So, of course, you know what we're getting at...





...yeah, we couldn't trick you! Aaron Bishop (second from left) and Mike Cazeneuve (second from right), repeated as champions, joined this year by the Jeffs from Leighton (Hull, far left, and Pflueger, middle).

Most importantly, we are thankful for the generosity of the many attendees (we had our largest 50/50 ever, also won by Jeff Hull, which raised nearly \$1K for students). In total, the tournament raised over \$10K, over 20% of the annual budget we require to fund our Student Development efforts.

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## Supporting Other Associations

ASCE GI Los Angeles' Queen Mary event was back in full throttle this year after a hiatus.





Our newest Board Member, Rob Sandquist, helped helm the CalGeo booth between breaks.





Prior to the evening keynote by Ross Boulanger, PhD, PE, ASCE GI Los Angeles Vice Chair Ed Hernandez announced the raffles. Here we caught him announcing the signature giveaway of his own firm, Project X Corrosion Engineering, a flat screen TV.

## Upcoming Events

### *June 14 & 16: Mosquito Bridge Site Tours*

If you want to join us at the Mosquito Bridge site to learn about this monumental project, currently closed to the public, there are just a few spots left for our Friday, June 16, tour. Our Wednesday, June 14, tour is also half full. Please register ASAP to avoid missing out. [REGISTER NOW](#) | [DOWNLOAD FLYER](#)



## JUNE 2023 NORTHERN CALIFORNIA REGIONAL MEETINGS

### WEDNESDAY, JUNE 14 & FRIDAY, JUNE 16

**12:45 PM CARPOOL MEETUP | 1:00-1:30 PM DESIGN PRESENTATION | 1:30-3:30 PM TOUR MOSQUITO BRIDGE SITE**  
**\$35 CalGeo Member\* | \$50 Non-member | \$25 Student\*\***



**GREG YOUNG, PE**

#### MOSQUITO BRIDGE SITE TOURS

Built in 1939, the original, but long functionally obsolete, Mosquito Bridge is being converted to a bicycle and pedestrian bridge and being replaced by a 1,180 linear foot cantilever segmental bridge that will tower more than 300 feet above the South Fork American River gorge, a vision first initiated in 1993 and now being realized through enhanced design and technologies with a project completion date of 2025. The meeting will start with a design presentation at the Field Office by Greg Young, PE, Principal Engineer for Consor, the designer of the bridge's substructure work. El Dorado County Senior Civil Engineers Brian Franklin, PE, Resident Engineer and Aradhana Kochar, PE, Structure Representative, will join Greg to lead a tour of the site's current state and work (primarily soil nail, ground anchor, and type 1 retaining wall work) being managed by the Prime Contractor, Shimmick Construction. The project is proceeding under a full closure to the public in June, so this is an optimal time for our CalGeo visits!

**IMPORTANT**

- There are only 20 spots available on each tour. Please register immediately if you would like to attend.
- Parking is limited. If you are traveling with three or less people in your vehicle, meet at the carpool meetup by 12:45 PM. If you are traveling with four or more people, meet at the field office by 1:00 PM.
- ALL attendees MUST bring their own personal protective equipment — at a minimum: 1) a hard hat, 2) a safety vest, and 3) sturdy shoes for steep/loose/uneven terrain.
- Light snacks and beverages will be provided by CalGeo.



**BRIAN FRANKLIN, PE**



**ARADHANA KOCHAR, PE**

### CLICK TO REGISTER FOR THE JUNE 14 OR JUNE 16 SITE VISIT

**CARPOOL MEETUP**  
EL DORADO TRAIL PARKING  
MOSQUITO RD/CLAY ST  
PLACERVILLE, CA 95667

**FIELD OFFICE**  
8548 MOSQUITO ROAD  
PLACERVILLE, CA 95667



**CLOSE-UP AND LONG-RANGE PICTURES OF CURRENT CONSTRUCTION**



**FINAL RENDERING WITH THE ORIGINAL BRIDGE IN THE FOREGROUND**



\*Government employees receive member pricing. Need access? Email [info@calgeo.org](mailto:info@calgeo.org)

\*\*First 10 students will have their registration fee refunded upon attendance. To qualify the student must pay the \$25 deposit upon registration and attend the event. Students who do not pay the deposit at registration will not have a spot reserved.

### *June 21 & 28: Deep Excavation Short Course from One of the Field's Top Academic Experts*

Dr. Kenichi Soga is a pioneer in exploring new technologies in deep excavation. In this short course, he provides a background on the importance of analysis and monitoring using the Nicole Highway Failure case study and other data and provides instruction on conventional and emerging methodologies for analysis and monitoring. [REGISTER NOW](#) | [DOWNLOAD FLYER](#)



## DEEP EXCAVATION: ANALYSIS AND MONITORING

WEDNESDAYS, JUNE 21 AND 28 | 11 AM – 1 PM | VIRTUAL

**REGISTER NOW**

<b>MEMBERS</b>	<b>\$250</b>
<b>NON-MEMBERS</b>	<b>\$400</b>

### WEDNESDAY, JUNE 21

- Earth pressure and settlement estimation - Overview
- Mobilized strength design – Linking mechanism to settlement calculation
- Finite element method – Total stress versus effective stress calculation for clays
- Nicole Highway Failure case study – Causes of the failure that occurred in 2004 in Singapore



**KENICHI SOGA, PHD**

DONALD H. MCLAUGHLIN CHAIR IN MINERAL  
ENGINEERING CHANCELLOR'S PROFESSOR  
UNIVERSITY OF CALIFORNIA, BERKELEY

### Biography

Kenichi Soga is the Donald H. McLaughlin Professor in Mineral Engineering and a Chancellor's Professor at the University of California, Berkeley. He is the director of the Berkeley Center for Smart Infrastructure and is a faculty scientist at Lawrence Berkeley National Laboratory. He is Special Advisor to the College of Engineering Dean for Resilient and Sustainable Systems. He obtained his BEng and MEng from Kyoto University in Japan and PhD from the University of California at Berkeley. He was Professor of Civil Engineering at the University of Cambridge before joining UC Berkeley in 2016. He has published more than 450 journal and conference papers and is the co-author of *Fundamentals of Soil Behavior, 3rd Edition* with Professor James K Mitchell. His current research activities are infrastructure sensing, performance-based design and maintenance of infrastructure, energy geotechnics, and geomechanics. Named to the National Academy of Engineering in February 2023, he is a Fellow of the UK Royal Academy of Engineering, the Institution of Civil Engineers (ICE), the American Society of Civil Engineers (ASCE), and the Engineering Academy of Japan. He is the recipient of several awards including the George Stephenson Medal and Telford Gold Medal from ICE and the Walter L. Huber Civil Engineering Research Prize from ASCE. He is the chair of Technical Committee TC105 "Geotechnics from Micro to Macro" of the International Society for Soil Mechanics and Geotechnical Engineering and of ASCE's Infrastructure Resilience Division's Emerging Technologies Committee. He received a UCB Bakar Prize for his work on commercialization of smart infrastructure technologies.

### WEDNESDAY, JUNE 28

- Monitoring - Objectives
- Instrumentation – Conventional to fiber optic sensing
- Case study of slurry wall monitoring in London
- Peck's observational method – Nine ingredients
- Setting the limits for monitoring – Using the concept of the observation method

## August 21: Northern California Golf Tournament at Almaden Golf & Country Club

Help us follow up the success of our Southern California Golf Tournament by joining us in San Jose! [REGISTER NOW](#) | [DOWNLOAD FLYER](#) | [SPONSOR](#)



**CALGEO**  
**NORTHERN CALIFORNIA**  
**GOLF TOURNAMENT**  
**MONDAY, AUGUST 21, 2023**

Almaden Golf & Country Club  
6663 Hampton Drive  
San Jose, CA 95120

**REGISTER**

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***August 22 & 29: Deep Excavation Calculation and Design Software - DeepEx, SnailPlus, DeepFND***

Working on deep excavation projects? Need software training? Join Deep Excavation Founder Dimitrios Konstantakos for our August short course. [REGISTER NOW](#) | [DOWNLOAD FLYER](#)





## DEEP EXCAVATION CALCULATION AND DESIGN SOFTWARE

### DEEPEX, SNAILPLUS, DEEPFND

TUESDAYS, AUGUST 22 & 29 | 9 AM – 1 PM | VIRTUAL

**REGISTER NOW**

**MEMBERS \$200**  
**NON-MEMBERS \$350**  
EARLY REG PRICING ENDS AUG 1

#### CLASS DETAILS

##### DEEPEX: DEEP EXCAVATION DESIGN (6 HOURS)

This six-hour class will provide an overview of deep excavation design fundamentals. It covers cantilever, single support, and multilevel braced excavation analysis and design, as well as structural wall and support systems, slope stability analysis, finite element analysis, gravity wall systems and abutments, MSE walls, cofferdams, special applications, and dynamic analysis. Additionally, the class will cover citywide models.

##### SNAILPLUS: SOIL NAIL WALL DESIGN (0.5 HOURS)

##### DEEPEX: DEEP EXCAVATION DESIGN (1.5 HOURS)

This class will provide a comprehensive overview of the design of deep foundations. Topics to be covered include axial pile capacity analysis, lateral pile capacity analysis, pile groups, 3D finite element methods, and dynamic analysis. Participants will gain a better understanding of the various design considerations when designing deep foundations and be able to apply these methods in practice.

#### SOFTWARE DETAILS (ATTENDEES WILL RECEIVE TEMPORARY LICENSES FOR USE DURING THE CLASS)

##### DEEPEX

Developed for engineers like you, DeepEX is an innovative, easy-to-use software program for deep excavations. It solves both geotechnical and structural designs for many wall types, including soldier pile walls, sheet pile walls, and diaphragm walls with multiple sections of reinforcement. DeepEX can also perform slope stability analysis with soil nailing. It comes packed with all structural and geotechnical design codes. Hosting 3000 users worldwide, geotechnical and structural engineers in the US, Singapore, Australia, India, Russia, Ukraine, Turkey, Malaysia, and beyond use DeepEX as their preferred tool for deep excavation design.

##### SNAILPLUS

SnailPlus is our slope stability analysis and soil nail wall design software. While soil nailing is also available in our DeepEX software program, SnailPlus brings all the necessary capabilities into one package. The software follows the FHWA methodology for the design of soil nail walls in an interactive environment built on the DeepEX basic layout. This means that you can include all intermediate construction stages for your soil nail wall, including 3D loads, in an interactive environment. Last, SnailPlus is the only software that produces a full printable report of all design calculations.

##### DEEPFND

DeepFND is a powerful, user-friendly program for deep foundations, developed by expert engineers to help you design deep foundations and minimize your risks. It covers all aspects of structural and geotechnical foundation pile design within a superior, interactive environment.

#### BIOGRAPHY

Dimitrios C. Konstantakos, PE, is the founder and CEO of Deep Excavation LLC, a developer of user-friendly, high-quality, deep excavation calculation and design software. He is also the current chair of the American Society of Civil Engineers' Earth Retaining Structures Committee. Mr. Konstantakos holds a master of science degree in Civil/Geotechnical Engineering from the Massachusetts Institute of Technology and a BS degree in Civil Engineering from the University of Massachusetts Lowell. He has been involved in the design of bridge foundations, tunnels, deep excavations, finite element simulations, piers and bulkheads, pile foundations, and field inspections. Mr. Konstantakos has also taught Support of Excavation Systems as an adjunct professor at New York University.



**DIMITRIOS C. KONSTANTAKOS, PE**  
FOUNDER AND CEO  
DEEP EXCAVATION LLC

## September 19 & 26: California Labor Compliance 101

Need your employees to make sure they are up-to-date on prevailing wage, skilled and trained workforce, and apprenticeship requirements? Make sure to have them register for our California Labor Compliance 101. [REGISTER NOW](#) | [DOWNLOAD FLYER](#)



## CALIFORNIA LABOR COMPLIANCE 101

HOW TO MAINTAIN COMPLIANCE WITH PREVAILING WAGE, SKILLED  
AND TRAINED WORKFORCE, AND APPRENTICESHIP REQUIREMENTS

TUESDAYS, SEP 19, 10 AM - 1 PM, SEP 26, 11 AM – NOON | VIRTUAL

**REGISTER NOW**

**MEMBERS \$150**

**NON-MEMBERS \$300**

EARLY REG PRICING ENDS SEPTEMBER 1



**CRISTINA AGUIRRE**

LABOR COMPLIANCE ANALYST AND TRAINER

**ALLIANT CONSULTING**

### TUESDAY, SEPTEMBER 19

Navigating California state prevailing wage and apprenticeship requirements is difficult. With this training, improve your ability to understand and follow these requirements. Walk through common pitfalls and best practices to ensure your project remains compliant. Particularly, take a deep dive on form DAS 140 because incorrect completion often causes penalties. Overall topics include: Public Works Defined & Governing Law; Public Agency & Contractor Responsibilities; Prevailing Wage Requirements; Certified Payroll Reports; Fringe Annualization; Apprentice Requirements; and Penalties/Best Practices.

### TUESDAY, SEPTEMBER 26

California has implemented Skilled and Trained Workforce requirements that mandate contractors working on specific contracts or projects to employ a certain percentage of graduates from a registered apprenticeship program. During this training, we will provide a comprehensive overview of Skilled and Trained Workforce Requirements, best practices to stay ahead, and how to protect your company from potential penalties.

#### Cristina Aguirre Biography

In addition to conducting training for Alliant's clients, for projects applicable to California prevailing wage, Cristina monitors, collects, audits, and enforces all requirements from the California Labor Code along with DIR-accepted practices to ensure compliance. For projects subject to Davis-Bacon, she follows requirements from the Code of Federal Regulations and DOL-accepted practices to perform the necessary oversight. Cristina coordinates direct communication with the client, prime contractor, and all subcontractors who perform work on site, eliminating costly documentation disruptions or payment withholdings due to misunderstandings. She specializes in managing large project scopes through a team of clerks and analysts.

#### About Alliant Consulting

Alliant Consulting is a premier prevailing wage compliance firm with over 20 years of experience with State and Federal Prevailing Wage Requirements. Over that time, their work has prevented \$600M of costly penalties assured project funding remains intact. The services they provide include trainings, as-needed consulting, and project oversight, customizing as needed for individual clients and projects.

## Membership

### May New Organizational Member



[DRS Engineering](#)

### 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). New firms get July 1 - September 14 included for free in a 2023-2024 membership purchase.





# 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.

**IMPORTANT:** Use the Code INTERNSHIP to post your internship for FREE.

[Visit CalGeo's Career Center](#)

CalGeo		
	<b>FEATURED Senior Soils Technician (Orange County, Riverside and Los Angeles Counties)</b> LGC Geotechnical, Inc. - San Clemente, CA Full-time	<i>Posted: May 11, 2023</i>  Application Deadline: Jun 30, 2023
	<b>FEATURED Engineering Field Technician</b> Youngdahl Consulting Group, Inc. - El Dorado Hills, CA Full-time	<i>Posted: May 5, 2023</i>  Salary: \$22.00 - \$32.00 Hourly Application Deadline: Jun 5, 2023
	<b>FEATURED Staff Engineer</b> Youngdahl Consulting Group, Inc. - El Dorado Hills, CA Full-time	<i>Posted: May 5, 2023</i>  Salary: \$24.00 - \$34.00 Hourly Application Deadline: Jun 5, 2023
	<b>FEATURED Field Technician</b> Miller Pacific Engineering Group - Petaluma, CA Full-time	<i>Posted: May 3, 2023</i>  Salary: \$28.85 - \$38.46 Hourly Application Deadline: N/A
	<b>FEATURED Project Engineer</b>	<i>Posted: May 3, 2023</i>





Miller Pacific Engineering Group - Petaluma, CA  
Full-time

Salary: \$90,000.00 - \$105,000.00 Annually  
Application Deadline: N/A

[View More Jobs](#)

## UPCOMING CALGEO EVENTS AND DEADLINES AT A GLANCE

**June 14, 16:** Mosquito Bridge Site Tours [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

**June 21, 28:** Deep Excavation: Analysis and Monitoring with Kenichi Soga, PhD [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

**August 21:** 2023 Northern California Golf Tournament at Almaden Golf & Country Club [REGISTER NOW](#) | [DOWNLOAD FLYER](#) | [SPONSOR](#)

**August 22, 29:** DeepEX (6 hours), DeepFND (1.5 hours), and Snail Plus (0.5 hours) Virtual Training, 9 AM - 1 PM [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

**September 19, 26:** California Labor Compliance 101 [REGISTER NOW](#) | [DOWNLOAD FLYER](#)

**Week of April 1, 2024:** Conference 2024 at Turtle Bay Resort on the North Shore of O'ahu | Sales Short Course April 2-3, Local Field Trip April 3, Regular Programming April 3-5 **SAVE THE DATES**

## HELP US ELEVATE THE GEOPROFESSIONS

PLEASE SIGN THE NONBINDING [ELEVATE GEOPROFESSIONAL VALUE ACCORD](#).

Want to get published in our next e.Geo? Email us at [info@calgeo.org](mailto:info@calgeo.org). Check out our submission guidelines [HERE](#).



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