



California Geotechnical Engineering Association
Building on the Past, Designing the Future

CONFERENCE PROGRAM

Squaw Valley April 22-24, 2020

www.CalGeo.org/2020

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SCHEDULE

WEDNESDAY APRIL 22

	Event	Sponsor/Speaker	Location
8:00 - 12:00	 Rocscience Short Course: Settlement Analysis using Settle*	Dr. Alireza Azami, Rocscience	Castle/Pyramid
12:00 - 1:00	Lunch for FULL DAY short course attendees		Castle/Pyramid
12:00 - 1:30	Past President's Luncheon	Invitation Only	Sandy's Pub
12:00 - 1:30	Affiliate Member Round-table Luncheon with Board	Affiliate Members Only	
1:30 - 4:30	Affiliate Member Exhibit Set-up		Alpine A/B
1:30 - 4:30	 Rocscience Short Course: Analysis of Supported Slopes*	Dr. Thamer Yacoub, Rocscience	Castle/Pyramid
1:30 - 4:30	 Prevailing Wage & Apprenticeship Short Course*	Van Allyn Goodwin, Littler Law	Castle/Pyramid
2:00 - 4:00	Past President Interviews	Invitation Only	
4:30 - 6:00	Welcome Happy Hour	Tencate Geosynthetics, Tensar & WGI-GeoPier	Alpine A/B

* Separate registration required for each short course. Conference registration does not include short courses and vice versa.

THURSDAY APRIL 23

	Event	Sponsor/Speaker	Location
7:30 - 8:30	 Breakfast (Guest breakfast open until 10:30am)	Farrell Design Build	Cascades Restaurant
8:30 - 10:00	General Membership Meeting & Torch Lighting	CalGeo Board	Alpine A/B
10:00 - 10:30	 Break	California Nevada Cement Assoc.	Alpine A/B
10:30 - 11:45	 Earthquake hazards in California: A practical approach	Dr. Alan Hull, Golder	Alpine A/B
12:00 - 1:30	 Lunch & Presentation on Helical Piles: Design, Application & Building Code Requirements	RamJack	Alpine A/B
1:30 - 2:45	Legislative Issues: How Can We Be More Effective in Creating Change	Tyler Munzing, ACEC	Alpine A/B
2:45 - 3:15	Break		Alpine A/B
3:00 - 4:20	 Neotectonics of the Lake Tahoe Area: Implications for Landslides and Tsunamis	Dr. Richard Schweickert, UNR	Alpine A/B
6:00 - 8:30	50th Anniversary Banquet & Silent Auction	Middle Earth & Farrell Design	Alpine A/B

FRIDAY APRIL 24

	Event	Sponsor/Speaker	Location
7:30 - 8:30	Breakfast (Guest breakfast open until 10:30am)		Cascades Restaurant
8:30 - 10:00	 Expert Panel: Risk & Liability	Panel: Gius, Jacobsen, Silver, Smalls	Alpine A/B
10:00 - 10:30	Break		Alpine A/B
10:15 - 11:45	 Expert Panel: Discussion Session	Panel: Gius, Jacobsen, Silver, Smalls	Alpine A/B
12:00 - 1:30	 Project Awards Lunch		Alpine A/B
1:30 - 2:45	 Economic Forecast	Dr. Robert Eyler, Sonoma State	Alpine A/B
2:45 - 3:00	Break & Affiliate Tear-down		Alpine A/B
3:15 - 5:00	 Field Trip to Tahoe Dam & Local Geology	Dr. Richard Schweickert, UNR	
6:15 - 9:00	Closing Murdery Mystery Dinner & Party	PlumpJack Inn - Mountain Room (shuttle from hotel)	

 Management Focus

 Technical Focus

 Emerging Professionals

PROGRAM

Wednesday April 22nd

Welcome Happy Hour & Olympic Rings

4:30-6:00pm, Alpine A/B @ Resort at Squaw Creek

Join us for some light appetizers and refreshments to kick off our 2020 Conference! Mix and mingle with our Affiliate partners as you strategize the best course to collect all the Olympic rings.

Enjoy dinner with other members or explore Squaw Valley on your own.

Thursday April 23rd

General Membership Meeting & Torch Lighting Ceremony ●

Presented by CalGeo Board of Directors & President Chris Diaz

8:30am-10:00

Join us to hear about CalGeo's accomplishments and progress over the last year. The board will report on financial, membership growth and events. Nominations for board positions and ballots will be available for voting.

Earthquake Hazards in California: A Practical Approach ○●

Presented by Dr. Alan Hull, Golder Associates

10:30am-11:45

It has been almost 50 years since the California Legislature passed the Alquist-Priolo Earthquake Fault Zoning Act in response to the damage from the 1971 San Fernando earthquake and surface fault rupture. Governments and key industries around the world have developed standards and guidelines to try and mitigate the effects of both strong shaking and surface fault rupture on seismically active faults.

This presentation will use examples from the Western USA and California to illustrate how earthquake and related hazards are incorporated into every-day engineering projects. Examples will show the variety of regulatory approaches used within and beyond California; and explore the needs of engineers and regulators from ongoing scientific inquiry.

Dr. Alan Hull is a Senior Practice Leader at Golder Associates in Portland, OR. Alan is a California-registered engineering geologist who focuses on paleoseismology, earthquake hazard assessment and incorporating the effects from seismically active faults into engineering analysis and design. Prior to joining Golder, Irvine CA in 2001, Alan spent 20 years with the New Zealand Geological Survey (now GNS Science) undertaking basic and applied paleoseismic research from fault trenching and marine terrace studies. Alan was a member of the 2016-2018 Expert Panel supporting the update of California Geological Survey SP 42-- Earthquake Fault Zones: A Guide for Government Agencies, Property Owners/Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California.



Helical Piles: Design, Application & Building Code Requirements ○●

Presented by Darris Willis, RamJack

12:00-1:30pm

Enjoy lunch sponsored by our Affiliate partner RamJack while increasing your knowledge of helical pile design and theory. Helical piles and anchors have been used in construction applications for more than 175 years. The helical pile industry has seen substantial growth in the last 20-years as most practicing engineers have recognized the strength, versatility and many applications of the system. The presentation will cover the design, applications and building code requirements of helical piles.

Celebrating 50 years of CalGeo

DAY 1

Helical Piles cont.

Darin Willis, P.E, is the Director of Engineering for Ram Jack Systems Distribution, LLC. Darin has thirty-five (35) years of experience in designing, developing, installing and testing hydraulically driven steel and helical piles. He has designed foundation underpinning systems for residential, commercial and industrial projects throughout the United States, Canada, Puerto Rico and Central America.



What's shakin' in Sacramento? – Seismicity, Continuity of Services, and other A&E issues before the California Legislature ●

Presented by Tyler Munzing

1:30-2:30pm

Tyler Munzing is Director of Government Affairs for ACEC California, responsible for managing ACEC California's state legislative activities, tying together the organization's policy agenda and political objectives with the promotion of the engineering and land surveying profession. Prior to joining ACEC California, Tyler served in the State Capitol representing multiple state legislators, most recently as Legislative Director for a Senator where he spent seven years working prominently on energy, transportation, resources, and design professional issues.

Neotectonics of the Lake Tahoe Area: Implications for Landslides and Tsunamis ●

Presented by Dr. Richard Schweickert, Professor Emeritus at UNR

3:00-4:20pm

The main themes involve using detailed field studies and underwater observations with ROV's, along with high-resolution bathymetry and lidar topographic images, to produce evidence for a paleo-Tahoe, landslides and consequent tsunami, and active faults.

Dr. Schweickert received his B.S. and Ph.D. in Geology from Stanford and has held numerous teaching and academic positions at Cal State Sonoma, San Jose and San Francisco. He later took on the role of Associate Professor of Geology at Columbia in New York before settling at the University of Nevada, Reno in 1982. His on-going research is focused on crustal evolution of mountain belts, with emphasis on North American Cordillera, California-Nevada and Alpine chain. With NSF funding, Dr. Schweickert has carried out research in Alaska, California, Nevada, Chile, Argentina, Antarctica, Newfoundland, Italy, and Corsica.



Join Dr. Schweickert on an optional field trip tomorrow at 3:15pm!

50th Anniversary Jubilee Banquet & Silent Auction

6:00-8:00pm

Celebrate CalGeo's storied history and gather insights from some of our founding members at our 50th Anniversary bash. We are pleased to involve so many past-presidents in this year's festivities and we will be recognizing their service in our awards. Hear from Tom Wallace, founder of Wallace & Kuhl and the 7th President of CalGeo from 1977-1978.

Browse the Affiliate tables while sampling a delicious buffet dinner. Don't forget to get in your bids for our Silent Auction! Only held once a year, this event is our #1 fundraiser for our student fund. We will also be making a big announcement of the new scholarship winners for CalGeo student chapter members. Lets encourage these young geo-professionals!

Discover the roots of CalGeo with a Tom Wallace, one of CalGeo's early Presidents and travel through history as we un-earth some of the CalGeo and CGEA artifacts that time forgot.

Wear something GOLD to help us embrace our golden years as we ring in our semicentennial.

Presentations & hand-outs: www.calgeo.org/2020

PROGRAM

Friday April 24th

Expert Panel on Risk and Liability in Geotechnical Engineering

Moderator: David Gius, Wallace Kuhl & Associates

Panelists: Greg Silver, GMU Geotechnical

Norah Smalls, Dealy Renton Insurance

Gary Jacobsen, Attorney with Koenig Jacobsen LLP

8:30am-10:00



Our panelists have each been provided with the same case history from a California project that went wrong. They will each present their findings and recommendations on the issues affecting risk and liability during this session. A workshop will be conducted with attendees to evaluate “what went wrong” and “what went right” with the case history.

Mr. Gius has over 30 years of experience as a project engineer, dating to his entry into the fields of geotechnical engineering and engineering geology in 1985. His extensive track record includes geotechnical and geologic studies for schools, hospitals, fire stations, commercial and industrial projects, and residential subdivisions. Mr. Gius has performed numerous site-specific ground response studies for earthquake analyses of structures, as well as forensic analyses of distressed structures throughout the Sacramento Valley.

Mr. Silver has over 35 years of progressively responsible engineering and management experience in a wide variety of civil and geotechnical engineering projects. He has worked successfully for and with industrial, residential, and commercial developers, master community planners, and governmental agencies. He has extensive experience in landslide evaluation and remediation design, geotechnical instrumentation, residential and commercial development, public works projects, municipality consultation, mechanically stabilized earth walls, and forensic projects. In addition, he has served as an expert witness in regards to numerous geotechnical and civil issues over the last 30 years.

Norah is an Account Executive in the design professional practice of Dealey, Renton & Associates. Norah has over 20 years' experience as a commercial insurance broker; specializing in serving the design, engineering, and construction management industries. Norah provides unique solutions to challenging insurance matters, risk management & loss control services, and consultative assistance to insurance related business concerns. As the daughter of a civil engineer who owned his own practice, Norah was raised in an engineering office and understands the complexities of the business.

The primary focuses of Mr. Jacobsen's practice are professional liability and environmental matters. He is a frequent speaker at seminars involving design professionals, contractors and environmental issues. He specializes in the representation of architects, engineers and contractors in construction litigation. He has an extremely successful record in jury trials involving engineers/architects, environmental matters, personal injury, product liability, premises liability and construction defect claims.

Expert Panel Discussion Session

10:15am-11:45

Our panelists will discuss issues raised in the earlier workshop and give their evaluation of the case history. Recommendations for future projects and actions will be discussed. Open discussion and questions among participants is encouraged.

Celebrating 50 years of CalGeo

DAY 2

Project Awards Luncheon

12:00pm-1:30

Enjoy a delicious lunch while learning about this year's winning projects. Learn from your peers about new design methods and innovative approaches. Student chapter awards and volunteer awards will also be presented.

Economic Outlook & Forecast for California

Dr. Robert Eyler

1:30pm-2:30

Dr. Eyler provides a forecast of the US and California economies starting with global issues down through how different regions of California are performing. With elections over, and more on the way, where is California headed. How are housing and labor markets doing regionally throughout California? Will current forecasts change as 2019 rolls along? What pressure will interest rates rising have on forecasts for 2019 to 2022? Dr. Eyler shares his insights on macroeconomic data, housing and labor markets, California's experiments with legal cannabis and longer term issues to affect the state and national economies.

Dr. Robert Eyler is President of Economic Forensics and Analytics, specializing in public policy analysis for firms and governments. He is also Dean of the School of Extended and International Education and Professor of Economics at Sonoma State University. He earned a Ph.D. from the University of California, Davis and a B.A. in Economics at CSU, Chico. He is often called up by the media for his expertise, and for legal clients acts as an expert witness and forensic economist. Robert is a Sonoma County native, and his family have been sheep and cattle ranchers in Marin and Sonoma counties since 1910.



Optional Field Trip to the Tahoe Dam & Local Geology

Dr. Richard Schweickert, Professor Emeritus UNR

3:15pm-5:00

Separate registration for this event is required to guarantee your spot on the bus! Join Dr. Schweickert on a tour of the area to learn about the geology and engineering endeavors around Tahoe City and the Resort surroundings.

The tour will start at the front port cochere of the Resort In Squaw Valley where high-standing Tahoe-age glacial moraines represent times when the Truckee River canyon and Lake Tahoe were glacially dammed. From there we will drive along the canyon through high walls of Quaternary volcanic rocks to Tahoe City and scenic Commons Beach. There, we will outline, 1) the geologic framework of Lake Tahoe, 2) 2.5 m.y. to 923 ka volcanism and lava dams at Tahoe City, 3) Lake Tahoe highstand benches, 4) boulder megaripples on the Tahoe City shelf produced by giant tsunami waves from the McKinney Bay collapse, and, if time permits, we may discuss some of the history of the Lake Tahoe dam.



Closing Masquerade Murder Mystery Party!

6:15pm-9:30 @ PlumpJack Squaw Valley Inn (located in Village), Mountain room

Don't miss this fun murder mystery dinner in the beautiful setting of Squaw Valley. Meet your fellow suspects in the lobby of the Resort at Squaw Creek by 6:00pm for shuttle bus transportation to our masquerade party. Dinner, drinks and a night of fun await... if you dare!

Presentations & hand-outs: www.calgeo.org/2020



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