



ANNUAL CONFERENCE

APRIL 3-5, 2024

WITH SPECIAL SALES SHORT COURSE APRIL 2-3

**SYMPOSIUM ON LIQUEFACTION, FAULT RUPTURE HAZARD, AND
OTHER AREAS OF INTEREST TO GEOTECHNICAL PROFESSIONALS**

INCLUDING PRESENTATIONS FROM NORM ABRAHAMSON, ROSS BOULANGER, JONATHAN BRAY, AND MISKO CUBRINOVSKI

Invite

Dear Members, Professionals, Students, and Guests,

Aloha!

CalGeo formally invites you to attend the 2024 Annual Conference at Turtle Bay Resort on the North Shore of O'ahu, Hawaii! The Conference Committee and Board of Directors have been working hard to make the 2024 event one of the most valuable and memorable engineering conferences you have ever attended, CalGeo or any other. We hope the location, venue, presentations, events, and activities will leave a lasting impression that is worthy of our eminent slate of speakers, CalGeo, our members, and the geotechnical profession.

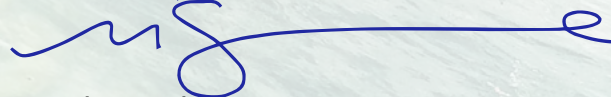
This year, we've emphasized finding ways to improve networking opportunities, interaction, content, and value for all categories of CalGeo membership and guests. We want the conference to be equally valuable to everyone. This includes pre-conference short course content that is relevant to Affiliates, Active Members, other geoprofessionals, and service providers. We've also lengthened the opening reception (with hosted drinks afterwards), scheduled ample breaks during the general sessions so Active Members can mingle and engage with Affiliates, and placed Affiliate exhibits in the same ballroom as the general sessions. There's also "Fun Day at Turtle Bay" and the Lu'au. Of course, these are just some highlights. You will find a full conference schedule and finer details throughout this announcement.

For two years running, over 180 people have joined us at our annual conference, and we are diligently working to generate another strong turnout in 2024. This year's speaker lineup includes multiple world-renowned academics collaborating to present a "top to bottom" discussion of liquefaction hazards, evaluations, analyses, and mitigation. Of course, other topics will be included as well. All of this will take place at beautiful Turtle Bay Resort, a secluded hotel property that boasts ocean views from every guest room and enough on-site activities to ensure Annual Conference 2024 will be a great opportunity to meet, network, and interact with new people, learn new things, and enjoy your industry friends and colleagues.



Everyone is invited to join, including firms and professionals with presences in Hawaii, Japan, New Zealand, and beyond. We look forward to welcoming you to Turtle Bay Resort in April 2024! Registration is now open! Sign up early and save!

Your Colleague,



President Mike Cazeneuve, PE, GE, CEG
On behalf of the CalGeo Board of Directors



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Networking Lunch and Presentation



Lu'au Night

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Hosted Networking Night



Opening Reception Happy Hour



Breakfasts Sponsor



Fun Day at Turtle Bay



Welcome Materials Sponsors

**Project X Corrosion Engineering
Solmax Geosynthetics**

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KEY



Technical Focus



Management/Business Focus

Schedule

TUE | APRIL 2 EVENT (SHORT COURSE ATTENDEES)

DETAILS / SPEAKER

12 ⁰⁰ –5 ⁰⁰ PM	Check-In for Short Course and Early Check-In for Conference	Check-In for Short Course or Conference
2 ⁰⁰ –6 ⁰⁰ PM	Hassle-Free Selling for Project Managers, Engineers, and Professionals PART I	John Bachner

WED | APRIL 3 EVENT

DETAILS / SPEAKER

7 ⁰⁰ –8 ³⁰ AM	Breakfast for Short Course Attendees Only <i>Sponsored by Pavement Recycling Systems</i>	Open to Hassle-Free Selling Attendees Only
8 ⁰⁰ AM–12 ⁰⁰ PM	Hassle-Free Selling for Project Managers, Engineers, and Professionals PART II	John Bachner
9 ⁰⁰ AM–5 ⁰⁰ PM	Conference Check-In	Check-In for Conference Available All Day
12 ⁰⁰ –1 ⁰⁰ PM	Lunch for Short Course Attendees Only	Short Course Attendees Only
12 ⁰⁰ –1 ³⁰ PM	Past Presidents Luncheon	VP, President, Past Presidents Only
1 ⁰⁰ –5 ⁰⁰ PM	Fun Day at Turtle Bay - Beach Hangout <i>Sponsored by Geo-Instruments and Tensar</i>	Kuilima Cove - All Ages Welcome
5 ⁰⁰ –5 ³⁰ PM	Affiliate Round Table	Conversation with President Mike Cazeneuve
5 ³⁰ –6 ⁰⁰ PM	New Member / First-Timer Meet and Greet (Have a Refreshment, Meet the Board)	Noted Attendees Invited
6 ⁰⁰ –8 ⁰⁰ PM	Opening Reception Happy Hour <i>Sponsored by Gregg Drilling and Middle Earth Geo Testing</i>	All Full Conference Attendees Invited
8 ⁰⁰ –11 ⁰⁰ PM	Hosted Networking Night with Refreshments - <i>Sponsored by Geopier</i>	All Full Conference Attendees Invited

THU | APRIL 4 EVENT

DETAILS / SPEAKER

7 ⁰⁰ –8 ³⁰ AM	Check-In, Breakfast, Women-in-Engineering Meetup led by Lindsey Angell <i>Sponsored by Pavement Recycling Systems</i>	Discuss Challenges and Successes
8 ⁰⁰ –8 ³⁰ AM	General Membership Meeting	Includes Approval of 2024-2025 Ballot
8 ³⁰ –9 ³⁰ AM	Probabilistic Fault Rupture Hazard, Principle and Distributed	Norm Abrahamson, PhD, NAE
9 ³⁰ –10 ⁰⁰ AM	Break	<i>Reenergize, Network, Visit Our Affiliates</i>
10 ⁰⁰ –11 ⁰⁰ AM	Liquefaction Challenges I: Site Characterization to Evaluate Liquefaction Effects	Jonathan Bray, PhD, PE, NAE
11 ⁰⁰ –11 ³⁰ AM	Break	<i>Reenergize, Network, Visit Our Affiliates</i>
11 ³⁰ AM–12 ³⁰ PM	Networking Lunch <i>Sponsored by Keller</i>	45-min Networking then 15-min Talk by Keller
12 ³⁰ –1 ³⁰ PM	"I want to be a geoprofessional when I grow up!" And other phrases...	Carrie Foulk, PE, GE
1 ³⁰ –1 ⁴⁵ PM	Break	<i>Reenergize, Network, Visit Our Affiliates</i>
1 ⁴⁵ –2 ⁴⁵ PM	Liquefaction Challenges II: From Element Response to System Effects of Liquefying Deposits	Misko Cubrinovski, PhD
2 ⁴⁵ –3 ⁰⁰ PM	Break	<i>Reenergize, Network, Visit Our Affiliates</i>
3 ⁰⁰ –4 ⁰⁰ PM	Liquefaction Challenges III: Issues in Remediation	Ross Boulanger, PhD, PE, NAE
4 ⁰⁰ –6 ⁰⁰ PM	Break (Exhibits Close at 4:30 pm)	<i>Reenergize, Network, Visit Our Affiliates</i>
6 ⁰⁰ –9 ⁰⁰ PM	Banquet/Student Fundraiser - Polynesian Style Lu'au <i>Sponsored by Farrell Design-Build</i>	Kuilima Point

FRI | APRIL 5 EVENT

DETAILS / SPEAKER

7 ⁰⁰ –8 ³⁰ AM	Breakfast <i>Sponsored by Pavement Recycling Systems</i>	
8 ⁰⁰ –9 ³⁰ AM	Seismic Hazards Panel	Abrahamson, Athanasopoulos-Zekkos, Boulanger, Bray, Cubrinovski; Moderator: Foulk
9 ³⁰ –10 ⁰⁰ AM	Break	<i>Reenergize, Network, Visit Our Affiliates</i>
10 ⁰⁰ –11 ⁰⁰ AM	Liquefaction of Gravelly Soils and the Impact on Critical Infrastructure	Adda Athanasopoulos-Zekkos
11 ⁰⁰ –11 ³⁰ AM	Break	<i>Reenergize, Network, Visit Our Affiliates</i>
11 ³⁰ AM–1 ⁰⁰ PM	OPAs Luncheon	Sponsor Talk, Affiliate Raffles, Awards, 3 OPAs
1 ⁰⁰ –2 ⁰⁰ PM	Revolutionizing Geotechnical Engineering Practice Through Automation	Dimitrios Zekkos, PhD, PE
2 ⁰⁰ –3 ⁰⁰ PM	Economic Insights from Outside of Any Echo Chamber	Paul Brewbaker, PhD
3 ⁰⁰ –3 ⁰⁵ PM	President's Close	President Michael Cazeneuve, PE, GE, CEG

APRIL 2-3
TUESDAY-WEDNESDAY

Short Course

HASSLE-FREE SELLING FOR PROJECT MANAGERS, ENGINEERS, AND PROFESSIONALS *EVERYTHING YOU NEED TO KNOW TO MAKE SALES AND TO REDUCE YOUR EXPOSURE TO LIABILITY CLAIMS*

John designed Hassle-Free Selling for both technical and nontechnical personnel of civil-engineering firms, geotechnical-engineering firms, environmental consultancies, construction-materials engineering and testing (CoMET) consultancies, and other nontechnical personnel who are involved in project management or are otherwise responsible for acquiring new clients and maintaining relationships with existing-client representatives.

Outline (approximate timeframes)

Tuesday, April 2, 2:00 - 6:00 PM

- | | |
|---------------------------------|---------|
| 1. Overview | 2:00 PM |
| 2. Lessons Learned the Hard Way | 2:15 PM |
| 3. Clients for Life | 3:00 PM |
| 4. The 30-Second Exercise | 3:40 PM |
| Break | 4:10 PM |
| 5. Your Favorite Sales Primer | 4:30 PM |
| 6. Targeted Sales | 5:30 PM |

Wednesday, April 3, 8:00 AM - Noon

- | | |
|--|----------|
| 7. Outreach Through Associations | 8:00 AM |
| 8. Active Listening | 9:00 AM |
| 9. Prying Loose a Competitor's Client for Life | 9:35 AM |
| Break | 10:05 AM |
| 10. Deliverables | 10:25 AM |
| 11. RFR: Request for Referrals | 10:40 AM |
| 12. Pro Selling Tips | 11:15 AM |
| 13. Summary and Conclusion | 11:45 AM |

About John Bachner

John is president and CEO of Bachner Communications, Inc., a business-communication firm he established in 1971. Part of John's business includes association management, and from April 1, 1971 through January of 2019 he served as the chief staff executive of more than 20 associations, societies, and foundations, many simultaneously. John now serves as a consultant to an array of private-sector organizations, especially firms that provide geoprofessional or civil-engineering services and associations/societies/foundations. A prolific writer, his more than 300 books, texts, manuals, and guides include GBA's *Contract Reference Guide* (editions 2, 3, 3.1, and 4); the Terra Insurance Company *Contract Reference Guide*; the *ECS Contract Reference Guide*, editions 1 and 2; the *DPIC Guide to Better Contracts*; the *RA&MCO Contract Reference Guide*; and well received books and guides on subjects such as forensic engineering, alternative dispute resolution, case histories, and limitation of liability. John Wiley & Son published John's *Practice Management for Design Professionals*; van Nostrand Reinhold published his *Marketing and Promotion for Design Professionals*. McGraw Hill and Charles C. Thomas have published other books by John, and he also has to his credit some 2,500 published magazine articles and columns, plus literally thousands of newsletters, case histories, brochures, and flyers. He has had more than a dozen movies produced. He has written, directed, and produced hundreds of successful television and radio ads. He lectures and leads seminars throughout the United States and abroad. His "GeoCurmudgeon" column appears regularly in *GEOSTRATA* magazine.

John Bachner

APRIL 3, WEDNESDAY

Get to Know Everyone!



&

Tensar®

PRESENT

FUN DAY AT TURTLE BAY

1-5 PM



&



PRESENT

OPENING RECEPTION HAPPY HOUR

6-8 PM

GEOPIER®

PRESENTS

HOSTED BEVERAGES

8-11 PM

APRIL 4, THURSDAY

Plenary Sessions

PROBABILISTIC FAULT RUPTURE HAZARD, PRINCIPLE AND DISTRIBUTED

8³⁰-9³⁰ AM

CRITICAL ADVANCES IN THE 2020s THAT WILL AFFECT PROFESSIONAL PRACTICE

Dr. Abrahamson will discuss recent advances in probabilistic fault rupture hazard including both principle (on fault) rupture and distributed (off fault) rupture and how they apply to the practice of geotechnical professionals.

About Norm Abrahamson, PhD, NAE

An Adjunct Professor of Civil and Environmental Engineering at UC Berkeley, Dr. Abrahamson's research is on the interface between seismology and earthquake engineering, focusing on the practical application of advances in seismology to the development of ground-motion models for use in deterministic and probabilistic analyses for estimation of design ground motions and seismic risk. He has experience in the development of design ground motions for hundreds of projects, including dams, bridges, nuclear power plants, nuclear waste repositories, water and gas pipelines, rail lines, ports, landfills, hospitals, electric substations, and office buildings. About two-thirds of these projects have been in the Western US, the other one-third in the Eastern US, Europe, New Zealand, Taiwan, Chile, and Peru. He has taught a graduate course on probabilistic seismic hazard analyses at UC Berkeley, UC Davis, UCLA, UC San Diego, Stanford, and the University of Texas and has annually provided a comparable course for working professionals through CalGeo since 2020. Dr. Abrahamson completed his studies at the University of California, Berkeley (BA in Geophysics, 1981; PhD in Geophysics, 1985).



Norm Abrahamson

LIQUEFACTION CHALLENGES I

10⁰⁰-11⁰⁰ AM

SITE CHARACTERIZATION TO EVALUATE LIQUEFACTION EFFECTS

Dr. Bray will discuss site characterization issues and challenges for evaluating liquefaction effects during earthquakes. His talk will present recent lessons with predicting the response of interbedded soils, the severity of soil ejecta, and ground and building settlements.

About Jonathan Bray, PhD, PE, NAE

Jonathan Bray is a Faculty Chair in Earthquake Engineering Excellence and a Distinguished Professor of Civil and Environmental Engineering at UC Berkeley. Dr. Bray's research focuses on the seismic performance of earth structures, seismic site response, liquefaction, and ground failure and its effects on structures, earthquake fault rupture propagation, and post-event reconnaissance. His research advances the understanding of earthquake fault rupture effects on systems, ground motions and seismic site effects, liquefaction and its effects on structures, seismic slope stability, and the performance of dams. He was elected into the U.S. National Academy of Engineering in 2015 and is an ASCE Fellow, among other honors, including the Seed Medal, Terzaghi Award, Ishihara Lecture, Peck Award, Joyner Lecture, Prakash Award, Huber Research Prize, Packard Foundation Fellowship, and the NSF Presidential Young Investigator Award. Bray has authored more than 450 research publications and has served as a consultant on several important engineering projects and peer review panels. Dr. Bray completed his studies at the United States Military Academy (BS, 1980), at Stanford University (MS in Structural Engineering, 1981), and at the University of California, Berkeley (PhD in Geotechnical Engineering, 1990).



Jonathan Bray

APRIL 4, THURSDAY

Plenary Sessions

SPONSORED NETWORKING LUNCH & PRESENTATION BY KELLER

11³⁰ AM-12³⁰ PM

NETWORKING 11:30 AM-12:15 PM

THE FIRST ANNUAL KELLER QUIZ ON EARTHQUAKES 12:15 PM-12:30 PM

And now something totally different. We present the first annual Keller quiz on earthquakes. Explore the depths of seismic knowledge, unearth intriguing facts, and embark on a captivating journey through seismic landscapes. Brace yourself for an enriching and enjoyable learning experience as we unravel the complexities of earthquakes! Prizes may be awarded subject to gift shop availability.

About Tim Keller, PE

Senior Business Development Manager, Tim Avery, PE, oversees Keller's growing presence in the Western seismic market, specifically in liquefaction mitigation work. He assists in the region's growing structural work, including deep foundations using drilled shafts, auger cast piles, and earth retention techniques. With over 35 years of geotechnical industry experience, Tim has also held roles in business development and technical sales for previously working for Hayward Baker, Nicholson Construction, The Robbins Company, and Master Builders, Tim has authored over 20 technical papers and articles.



Tim Avery, PE

"I WANT TO BE A GEOPROFESSIONAL WHEN I GROW UP!"

12³⁰-1³⁰ PM

...AND OTHER PHRASES YOU'RE NOT LIKELY TO HEAR EVERY DAY

Every geoprofessional has complained at one time or another about the lack of students entering our field. Geoprofessional firms suffer from staffing shortages and the issue will only become more urgent as spending on infrastructure continues to increase in the coming years. Should we throw our hands in the air, shrug, and hope things will change? Absolutely not! Let's talk about the issue and find out what is needed from you (yes, you!) to increase the pipeline of students interested in the geoprofessions, which will make a positive difference in your community at the same time.

About Carrie Foulk, PE, GE

Carrie Foulk is a senior geotechnical engineer at BSK Associates in Livermore, California. She has been in the business for about 25 years (including a 5-year break to be a stay-at-home mom), and is the geotechnical technical lead for BSK, as well as the geotechnical group manager in Livermore. She has a bachelor's degree in civil engineering from University of Washington (1996) and a master's degree in geotechnical engineering from University of California at Berkeley (2002). She is professionally licensed as both a civil engineer and geotechnical engineer in California. She serves on the board of directors for the Geoprofessional Business Association (GBA) and is an active member of CalGeo.



Carrie Foulk

APRIL 4, THURSDAY

Plenary Sessions

LIQUEFACTION CHALLENGES II

FROM ELEMENT RESPONSE TO SYSTEM EFFECTS OF LIQUEFYING DEPOSITS

1⁴⁵-2⁴⁵ PM

Dr. Cubrinovski will describe how liquefaction triggering and consequences are affected by both the soil properties (element response) and soil profile characteristics (system effects) during earthquake loading. He will use the lessons gained from numerous case studies to provide insights on the limitations and biases inherent to simplified engineering procedures.

About Misko Cubrinovski, PhD

Misko Cubrinovski is a Professor of Geotechnical and Earthquake Engineering in the Department of Civil and Natural Resources Engineering at the University of Canterbury, Christchurch, New Zealand. He holds a BSc degree in Civil Engineering, MSc degree in Earthquake Engineering, and a PhD from Tokyo University in Geotechnical Engineering. His research interests and expertise are in geotechnical earthquake engineering and in particular problems associated with liquefaction, seismic response of earth structures and soil-structure interaction. Misko has authored or co-authored over 300 technical publications and has worked as a geotechnical specialist and advisor on over 50 significant engineering projects. He had a leadership role in the research efforts following the 2010-2011 Christchurch earthquakes and is the lead author of the Liquefaction Module of the 2016 MBIE-NZGS Guidelines for Geotechnical Earthquake Engineering Practice in New Zealand. His honors include the 2018 NZGS Geomechanics Lecture Award, 2016 Norman Medal (ASCE), 2014 Outstanding Paper Awards from ASCE and EERI, and Ivan Skinner Award from EQC and NZSEE. He is a Faculty Member of the Rose School, Pavia, Italy, and Fellow of the University of Tokyo.



Misko Cubrinovski

LIQUEFACTION CHALLENGES III

ISSUES IN REMEDIATION

3⁰⁰-4⁰⁰ PM

Dr. Boulanger will discuss issues and challenges related to remediation of liquefaction effects. His talk will examine how biases in liquefaction analyses can affect recommendations on the extent of remedial work, as well as recent developments regarding performance of stone columns and soil-cement reinforcements.

About Ross Boulanger, PhD, PE, NAE

Ross Boulanger is a pre-eminent researcher, teacher, and consultant in geotechnical earthquake engineering, with a focus on soil liquefaction and its remediation, seismic performance of dams and levees, seismic soil-structure interaction, and constitutive model development for seismic applications. He has been an expert consultant to engineering firms, facility owners, and government agencies on numerous dam safety and other major projects in the U.S., Canada, and other countries. Professor Boulanger is the author of more than 100 papers published in leading technical journals, more than 150 technical conference papers, and one monograph (Soil Liquefaction during Earthquakes, 2008, with I.M. Idriss). He has served the profession as Chair of the ASCE Geo-Institute Awards Committee, Chair of the ASCE Geo-Institute Earthquake Engineering and Soil Dynamics Committee, Member of the Earthquake Engineering Research Institute (EERI) Board of Directors, Member of the United States Society on Dams (USSD) Board of Directors, and Chair of Technical Committee 203 – Earthquake Geotechnical Engineering of the International Society of Soil Mechanics and Geotechnical Engineering. He has also served as an Editor of the ASCE Journal of Geotechnical and Geoenvironmental Engineering.



Ross Boulanger

APRIL 4, THURSDAY

Banquet, Fundraiser

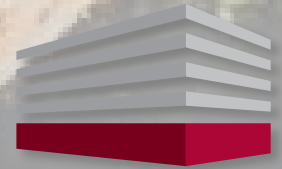
BANQUET - POLYNESIAN STYLE LU'AU

6-9 PM

Join us at scenic Kuilima Point for a Lu'au featuring local and traditional food as we celebrate each other and raise funds for our student chapters.



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APRIL 5, FRIDAY

Plenary Sessions

SEISMIC HAZARDS PANEL - INSIGHTS FOR PRACTICE FROM LEADING EXPERTS 8⁰⁰-9³⁰ AM

ANSWERING ALL THE MAJOR QUESTIONS PRACTITIONERS HAVE FOR OUR EXPERTS

We have allotted a generous amount of time for our Seismic Hazards Panel. As a conference registrant, you will be invited to submit your questions for panel consideration in early 2024. In addition to the important issues that the panel asks to cover, our committee will also give our moderator the most common and important questions that registered attendees submit.

Moderator

Carrie Foulk, PE, GE

Panelists (alpha order)

Norm Abrahamson, PhD, NAE

Adda Athanasopoulos-Zekkos, PhD

Ross Boulanger, PhD, PE, NAE

Jonathan Bray, PhD, PE, NAE

Misko Cubrinovski, PhD



Carrie



Norm



Adda



Ross



Jonathan



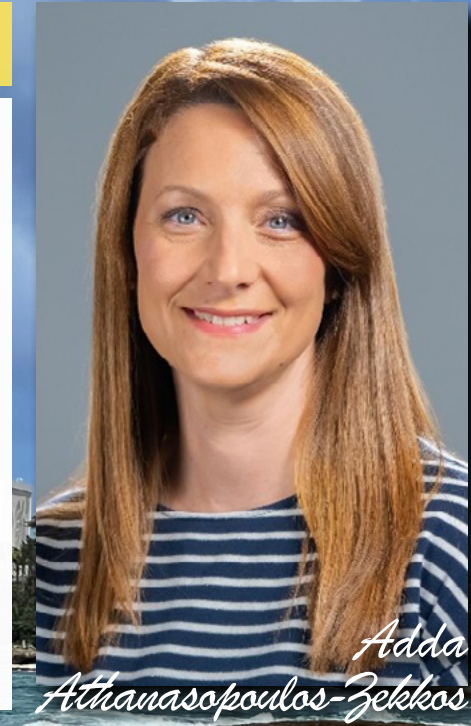
Misko

APRIL 5, FRIDAY

Plenary Sessions

LIQUEFACTION OF GRAVELLY SOILS AND THE IMPACT ON CRITICAL INFRASTRUCTURE 10⁰⁰-11⁰⁰ AM

Infrastructure performance requirements are increasing to meet grand challenges like urbanization, climate change, and other natural and man-made hazards threatening our natural and built environments. As civil and environmental engineers, we enhance the resiliency of our often aging or outdated infrastructure by developing new methodologies supported by emerging technologies, improved constitutive models, increased computational capabilities, and smart and sustainable materials. Civil infrastructure interacts with or comprises soils. So, knowing soils' behaviors is critical for assessing the response of flood protection (e.g., dams, levees), transportation (e.g., bridges, ports), and other geotechnical systems. Most soil liquefaction research focuses on sands, which liquefy in the field and can be readily tested under controlled lab conditions. By contrast, particle size makes characterizing gravelly soils difficult in the field and lab. Recent earthquakes in China, Greece, and New Zealand show that gravelly soils can liquefy during seismic events and may cause significant damage to infrastructure. Dr. Athanasopoulos-Zekkos will present results from ongoing research on evaluating the seismic and post-seismic responses of gravelly soils by combining unique laboratory experiments, field testing, and back-analyses of well-documented case histories. The goal: Develop a unified, robust approach for soil liquefaction analysis that integrates micro- (particle-to-particle) to macro-scale (infrastructure) material behavior.



*Adda
Athanasopoulos-Zekkos*

About Adda Athanasopoulos-Zekkos, PhD

Adda Athanasopoulos-Zekkos is an Associate Professor of Civil and Environmental Engineering (CEE) at the University of California, Berkeley, since January 2020. Prior to this appointment, she was a faculty member in the CEE department at the University of Michigan (2008-2019). She received her PhD (2008) and MSc (2004) in Geotechnical Engineering from the University of California, Berkeley. She earned a joint BSc/MSc in Civil Engineering from the University of Patras, Greece in 2003. She has received the NSF CAREER Award (2013), the 2014 University of Michigan Faculty Excellence Award, the 2015 ASCE Arthur Casagrande Award, the 2015 ASCE Thomas Middlebrooks Award, the 2016 Chi Epsilon (XE) Outstanding Teaching Award, and the 2020 TC203 Young Research Award from the International Society of Soil Mechanics and Geotechnical Engineering. She also delivered the 30th Annual Mueser Rutledge Memorial Lecture in 2020. Her research focuses on soil liquefaction, seismic slope stability, and the response of flood protection systems and soil structures under extreme loading like hurricanes and earthquakes as well as new technologies and methodologies to design, monitor and reinforce them.

OUTSTANDING PROJECT AWARDS

AWARDS PRESENTATION, THREE SELECTED PROJECT PRESENTATIONS

11³⁰AM-1⁰⁰ PM

The Outstanding Project Awards annually recognize outstanding projects by CalGeo members in a Geotechnical Contractor Category (public or private) and in six Geotechnical Consulting Categories: Public-Large, Private-Large, Public-Medium, Private-Medium, Public-Small, Private-Small. Winners and Honorable Mentions since the turn of the century can be found on our [website](#).



OPAs

APRIL 5, FRIDAY

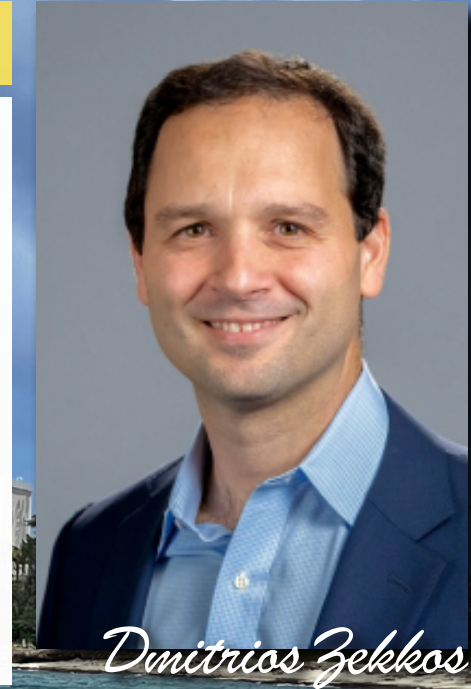
Plenary Sessions

REVOLUTIONIZING GEOTECHNICAL ENGINEERING PRACTICE THROUGH AUTOMATION 1⁰⁰-2⁰⁰ PM

Advances in technology and automation provide the opportunity for geotech firms to diversify staff, improve performance, achieve efficiencies, and innovate. As many engineering consulting firms' opportunities to grow and expand market share are limited by the geoprofessional shortage, new technologies and automation create ways to address that labor shortage and elevate the quality of engineering work. Dimitrios will share examples of applications of technology and automation using robots, sensors, and artificial intelligence to achieve unprecedented efficiencies in geo-practice. Examples will span the entire range of geotechnical practice including site characterization, data analysis, numerical modeling and infrastructure monitoring.

About Dimitrios Zekkos, PhD, PE

Dimitrios Zekkos is a Professor of Civil and Environmental Engineering at UC Berkeley and a founding partner of ARGO-E Group, an infrastructure analytics firm. Dr. Zekkos' research approach commonly involves designing and deploying innovative experimental and computational approaches to characterize the response of infrastructure and geo-systems to natural hazards and environmental stressors such as earthquakes, storms, and climate change. Zekkos is a recipient of the prestigious Outstanding Innovator Award from the International Society for Soil Mechanics and Geotechnical Engineering, as well as several awards by the ASCE, including the Arthur Casagrande Professional Development Award, the Collingwood Prize and Middlebrooks Award. He has served as a consultant on a wide range of infrastructure projects in more than 10 countries and is excited about translating research advances into engineering practice.



Dimitrios Zekkos

ECONOMIC INSIGHTS FROM OUTSIDE OF ANY ECHO CHAMBER

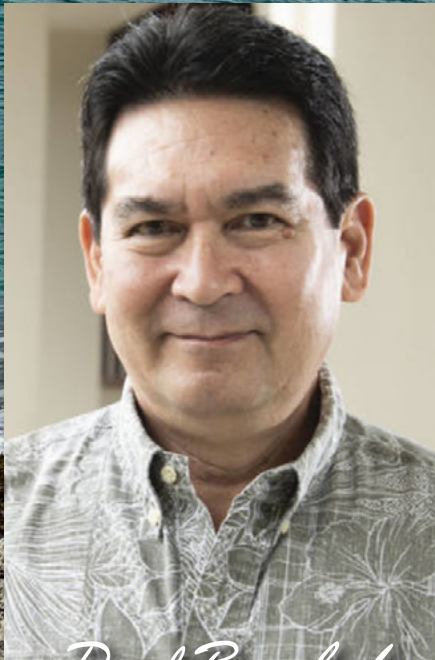
2⁰⁰-3⁰⁰ PM

PERSPECTIVES FROM ONE OF HAWAII'S TOP ECONOMISTS

Forever tethered to California from his days at Stanford, Paul has a prescient outsider-insider perspective on the economic data of California, the fifth largest country in the world according to GDP numbers. To him, the "Too Smart To Fail" hubris seen in recent bank collapses contains lessons for engineers. He will provide a country risk analytical perspective of the US economy in general and California in particular paying attention to critical political factors and regional contrasts. Paul is known for delivering lively presentations, and you will not want to miss his *de Tocqueville* commentary, nowhere found on the mainland.

About Paul Brewbaker, PhD

Paul H. Brewbaker is the principal of TZ Economics, a Hawaii economics consultancy in corporate work, financial risk and development impact analysis, and litigation support. His background includes research on the Hawaii economy and financial risk analytics from a 25-year affiliation with Bank of Hawaii. A graduate of Stanford University, he received his PhD from the University of Hawaii, both in economics. He also did graduate work at the University of Wisconsin, taught at its Madison and Milwaukee campuses, and in the University of Hawaii system. He is a member of the American Economic Association, American Finance Association, and National Association for Business Economics with its Certified Business Economist designation. He is a former president of the Hawaii Economic Association.



Paul Brewbaker

LOCAL RESOURCES

Things to Do

CLICK ANY LINK TO LEARN MORE! PLEASE READ OUR DISCLAIMER*

- [**TURTLE BAY RESORT BROCHURE**](#)
- [**BANZAI PIPELINE**](#)
- [**DEEP SEA & OFF-SHORE FISHING**](#)
- [**DOLE PLANTATION**](#)
- [**GOLF AT TURTLE BAY**](#)
- [**HALE'IWA TOWN**](#)
- [**HORSEBACK RIDING AT TURTLE BAY**](#)
- [**HUKILAU MARKETPLACE**](#)
- [**KAHUKU FARMS**](#)
- [**KUALOA RANCH**](#)
- [**POLYNESIAN CULTURAL CENTER**](#)
- [**SCUBA OR SHARK DIVING**](#)
- [**SEVEN MILE MIRACLE**](#)
- [**WAIALUA SUGAR MILL**](#)
- [**WAIMEA FALLS**](#)

**Disclaimer: This list is provided for informational purposes only. CalGeo does not endorse or have any comment on the value of any of the above experiences. CalGeo assumes no risk or liability for its attendees engaging in these experiences.*

