Inland Geological Society

March 2019

Next Meeting: Wednesday, March 6th

Time: Social: 6:00pm Dinner: 7:00pm Lecture: 7:30pm

Location:
Jurupa Mountains
Discovery Center
7621 Granite Hill Dr.
Jurupa Valley, CA
92509
(Map on pg. 9)

Coming to
Dinner?
Please RSVP
by Monday, 3/4
rsvp.igs@gmail.com

Newsletter of the Inland Geological Society

Volume 35 No. 3

In this issue:

•	March Speaker: Dr. Don Buchanan 1-2	
•	Announcements 2	
•	Upcoming Events/IGS Meeting Schedule	
•	Meeting Location & Current IGS Officers	

March Speaker:

Dr. Don Buchanan, Retired Professor of Geology

Abstract:

Minerals are an important component in everyday life although most of the public is not aware of the critical role mining plays in supplying minerals needed to maintain a growing economy. To help educate the public on the importance of minerals the San Bernardino County Museum opened a new exhibit on July 5, 2018 entitled "Minerals Rock-Unearthing the Human Element." Minerals are all around us in modern life; they are a critical component of our cellphones, roadways, and toothpaste, yet these same minerals can have significant global impact. San Bernardino County has a rich history in mineral production and still has approximately 100 active mines including the largest rare earth element mine outside of China, sand and gravel, limestone (for cement), decorative rock, gold, trona, saline minerals, talc, and clay including specialty clays used in cosmetics. The "Minerals Rock!" exhibit illustrates how vital minerals are to our county from the colorful history of exploration and scientific discovery, to the mining industry that fuels economic prosperity, to the numerous products that benefit our everyday lives, and the ways in which our choices in the dispersal of these products can have significant impact on our environment.

Speaker Biography:

Dr. Don Buchanan received a B.S. Degree in Geology from University of Missouri and completed a one-year Air Force Meteorology Training program at the University of Texas. He also has a MSc in Oceanography/Climatology from the Naval Postgraduate School in Monterey, CA and Doctorate in Education from USC. His career included meteorological work and doing research and applied Earth Sciences for the USAF and other branches of the military until retirement in July 1989. His second career included, teaching meteorology for Embry Riddle Aeronautical University. Additionally, he taught geology at several community colleges including San Bernardino Valley, Crafton Hills and Victor Valley. Don has been serving as President of Southern California Friends of Mineralogy Chapter of the nationwide Friends of Mineralogy since January 2015 developing symposiums and field trips around the state of California and into Nevada and Arizona.

Check out IGS's Facebook Page at https://www.facebook.com/groups/InlandGeo/

Contact Margaret Gooding at at mgooding@roadrunner.com to join.

ANNOUNCEMENTS AND UPCOMING EVENTS

Now Hiring:

Earth Systems Pacific has an immediate opening for a staff geologist in their Palmdale office.

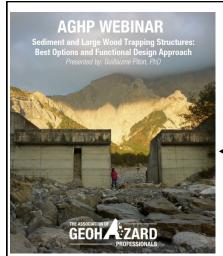
Interested candidates should contact:

Emiko Gerber (805) 234-9408 egerber@earthsystems.com

BPELSG Announcement:

On November 30, 2018 the California Board for Professional Engineers, Land Surveyors, and Geologists (Board) published the Geology Education Rulemaking Notice. The Board proposes to adopt Title 16, California Code of Regulations sections 3022, 3022.1, 3022.2, and amend Title 16, California Code of Regulations section 3031.

Please visit our webpage to view the Initial Statement of Reasons and the proposed text. https://www.bpelsg.ca.gov/about_us/rulemaking.shtml Comments from you are very important. Comments regarding suggested changes as well as comments indicating areas of agreement are equally important to the process. Instructions for providing comments are included with the public notice.



AGHP Webinar

"SEDIMENT AND LARGE WOOD TRAPPING STRUCTURES: BEST OPTIONS AND FUNCTIONAL DESIGN APPROACH"



Presented by: Guillaume Piton, Ph.D.

Researcher, Université Grenoble Alpes (France), Torrential Erosion, Snow Avalanche Research Unit, IRTSEA, Center of Grenoble

Thursday, March 14, 2019 | 2:00pm - 3:00pm ET | Online

Sediment and large wood trapping structures, also called SABO dams or open check dams, are regularly used in debris-flows and debris-flood mitigation schemes. They are very effective and efficient when used at appropriate sites and then correctly designed & maintained. Still, the processes occurring in these structures that result in the trapping of all or part of the solid load remain poorly understood. As a consequence, numerous structures are ill-designed generating high maintenance costs, the requirement for complementary works, and/or a higher likelihood of failure. Better understanding the driving mechanisms of deposition and erosion processes at the fan scale and at the structure scale may help design engineers to select the best type of structure for a given site and to design its shape and geometry in the most efficient manner.

Registration Cost:

\$25* - AGHP Members | \$150 - Non-members | Free* - Students Members

About AGHP:

The Association of Geohazard Professionals (AGHP) was created in 2013 to support the development of standards, specifications, and best practices concerning the design and implementation of geohazard-related technologies and products; and to support and provide education to the geohazard community and those it serves. To that end, we have developed a webinar series for 2019 that includes Snow Avalanche Mitigation, Debris Flow Hazards Mitigation, Anchor Testing, Rope Access, and more.

To encourage membership in our organization, AGHP members get one (1) free webinar per year for a membership fee of \$95.00. Each additional webinar is \$25 for members and is \$150 each for non-members. So an individual can become a member and participate in two webinars for the price of one! Student memberships are \$15 student each, and they can participate in unlimited webinars.

AMERICAN SOCIETY OF CIVIL ENGINEERING LOS ANGELES GEO-INSTITUTE CHAPTER SCHOLARSHIP 2019

The Los Angeles Geo-Institute chapter of ASCE is pleased to offer two scholarships directed to undergraduate seniors planning to enroll in a graduate-level geotechnical program in Fall 2019 and continuing graduate students. The scholarships are intended to recognize past achievement and career growth potential of students interested in pursuing a career in geotechnical engineering.

ELIGIBILITY 1. Senior standing in an ABET accredited Civil Engineering program in California, with plans to apply to one or more graduate geotechnical engineering programs (preferably in Southern California) and enroll no later than Fall 2019. **OR** 2. Enrollment in a Master- or Doctoral-level geotechnical engineering program at a California university (preferably in Southern California). Preference will be given to students who will graduate no earlier than Spring 2019.

AWARDS Each of the winners of the scholarships will receive a cash award of \$2,500 and an award certificate. The awardees will be invited to attend (free of charge) the Chapter's Spring Seminar on April 17th, 2019 to receive the award certificate (no transportation or lodging provided). The award checks will be sent to the winners upon receipt of official verification of enrollment in a suitable geotechnical graduate program as defined above.

APPLICATION PROCEDURE Applications are due by March 29, 2019 at 5:00 PM, and the winner will be announced at the Spring Seminar on April 17th, 2019. Each applicant must submit the following: 1. A resume including professional experience (including summer employment), university major and minor(s), expected graduation date, address/phone number/email address, and at least three references that can speak to your personal character and/or scholastic achievements. 2. A list of past and current courses, as well as a university transcript (unofficial transcript okay). 3. Two letters of recommendation from Civil Engineering faculty members and/or licensed Geotechnical Engineers which evaluate the applicant's recent academic performance and potential to contribute to the geotechnical engineering field. 4. A statement of educational and career goals (maximum length of 250 words). The statement should emphasis your achievements as they relate to your potential in the field of geotechnical engineering, your short-term goals for continued education, and long-term goals for a profession in the field of geotechnical engineering. Include the specific areas of interest and how you might contribute to the field of geotechnical engineering.

If submitted via email, please combine all files into one pdf document.

Submit applications to:

Ed Hernandez

Project X Corrosion Engineering

29990 Technology Dr. #13, Murrieta, CA 92563

(951) 215-6399

ehernandez@projectxcorrosion.com

Registration is now open for AEG's *Risk Assessments for Dam and Levee Foundations Workshop* to be held April 24-26, 2019, in Denver, Colorado. This workshop will focus on the role and contributions of engineering geologists and geotechnical engineers in the Risk Informed Decision Making process in managing dam and levee safety programs, risks associated with geological potential failure modes, and communication with Risk Assessment teams. For additional course and registration information, visit the website at https://www.aegriskworkshop.org.

Plan ahead for the **Geological Society of Nevada**'s 2020 Symposium, *Vision for Discovery: Geology and Ore Deposits of the Basin and Range*, scheduled for May 12-24, 2020, at the Nugget Casino Resort in Sparks, Nevada. Abstract submittal will open soon! For more information, visit the organization's website at http://www.gsnv.org/2020-symposium/.

REGISTRATION NOW OPEN!



GEO-CONGRESS 2019

8th International Conference on Case Histories in Geotechnical Engineering Philadelphia, Pennsylvania | March 24-27





Top 5 Reasons to Attend

- Network with your colleagues from around the world.
- Attend Terzaghi, Peck, and Seed Award Lectures.
- Gain essential ethics and geo-business information at sessions provided by GBA.
- Visit exhibitors to find the latest tools, techniques,
 e-programs.
- Earn Professional Development Hours (PDHs) to maintain your professional licensure while gaining focused knowledge.
- Experience Philadelphia. A First World Heritage City, with its iconic 300 years of history amidst a vibrant 21st century culture and streets lined with parks, shops, public art, restaurants, and museums. Philadelphia is home to four Civil Engineering Historic Landmarks – a perfect landing spot for civil and geotechnical engineers!

www.geocongress.org

AEG 2019 Annual Meeting Call for Abstracts



The Association of Environmental & Engineering Geologists 2019 Annual Meeting invites you to submit an abstract for publication and presentation at the 67th Annual Meeting in Asheville, North Carolina September 17-22, 2019. Abstract online submittal is now open. The deadline to submit your abstract is May 1, 2019. For complete meeting details and to register, please visit www.aegannualmeeting.org.

Dear Colleagues:

I am pleased to announce the completions of the Fall 2018 Cooperative Well Measuring Program.

This season we have requested data from 81 water agencies from the Upper Santa Ana, San Jacinto and western Whitewater River Watersheds.

5,198 well are in the spreadsheet

2,447 are considered "active"

2,751 are considered "closed" and assumed abandoned

I received 1,423 reported water levels (excluding a good number reported as dry)

A large number of these wells (active and closed) have data back to 1993 on this spreadsheet and data back to the Spring 1964 is available in interesting formats.

If you would like a copy of this years report, I am holding the subscription fee at \$150 for this seasons work.

Many of you know I am now semi-retired, points to anyone who can find Grenada California, so your continued support of this semi-annual report keeps me willing to keep slugging thru pages of water levels in various formats:)

If you have any questions, please give me a call!

THANKS!

Steven E. Mains Watermaster Support Services

watermains@aol.com

951-201-6571 cell

Steven E. Mains Watermaster Support Services

watermains@aol.com

951-201-6571 cell

P.O. Box 250

Grenada, CA 96038



SAVE THE DATES

33rd Annual

Desert Symposium and Field Trip

Symposium: April 19-20, 2019—Zzyzx, CA Field Trip: April 21-22, 2019—Ivanpah to Tecopa *Theme*:

Exploring Ends of Eras in the Eastern Mojave Desert

We'll examine historic mining in the area, the biologic changes associated with the Pleistocene to Holocene climate transition and potential sky island effects, and the timing and styles of Mesozoic thrusting and Cenozoic extensional tectomes.

Plan to submit a paper on one or more of these topics!

And share your research with an oral or poster presentation.

Abstract and paper deadline: 5 February 2019
Final submission of reviewed and revised papers: 12 March 2019
Registration deadline: 22 March 2019

We encourage students to attend and compete for the Adams Best Student Presentation Award

The field trip will return to Zzyzz Sunday night (April 21). The final day will end at Zzyzz so we can carpool on both days of the trip.

For more information please visit

DesertSymposium.org

The 2019 Desert Symposium is being held in cooperation with the Desert Studies Consortiom, California State University, Fullerton

The Desert Symposium has long featured the Adams Award for the best student talk or poster. This \$50 award is given at the annual meeting. It is funded by donations on the registration form.

Additionally, a new major Award for student research, the Robert Reynolds Student Research Award, has been established in honor of Bob Reynolds' decades of service. The award will be made annually to a student proposing research in and near the deserts of California, as funds permit and a qualified project is identified. The award will be for a maximum of \$1500.00. A short application that includes a research proposal is required to be submitted by February 15 of each year. An associated recommendation from a faculty mentor, on institutional letterhead, must be received by the same deadline. Proposals will be evaluated and a top candidate identified by March 15. The selected candidate will be encouraged to present a poster or talk about the proposal at the April Desert Symposium, at which time the general announcement of the winner will be made. Registration for the symposium will be waived for attendance by the winner. Students may contact David Lvnch. Secretary DS Inc.. at david@alumni.caltech.edu for the application form.

We hope to create a large enough fund to provide sustainable support for this award. Please show your gratitude for Bob's work

by donating to the Award. Donors will be identified in the annual volume published by the Desert Symposium. Checks should be made out to: Desert Symposium Inc. Reynolds Award and mailed to: Bruce Bridenbecker, DSI Treasurer, 64451 Brae Burn Ave., Desert Hot Springs, CA 92240. For additional information, contact Bruce Bridenbecker at bbridenbecker@cmccd.edu, or Dave Miller at dmiller@usgs.gov.

conference The Shlemon Specialty titled State Science: **Investigation** the Active Fault s in the Basin and Range Province is to be held at the UNLV Campus, Las Vegas, Nevada on March 28-29, 2019. For additional information. see the flyer at https://www.aegweb.org/resource/resmgr/shlemon march 28-29 2019 ver.pdf, or contact John H. Peck (702-556-5229, email: peckj1@juno.com) or Gary Luce (775-883-1600, email: lucegc@charter.net).

Visit the **Jurupa Mountains Discovery Center**

7621 Granite Hill Drive, Jurupa Valley, California 92509 951.685.5818

The Jurupa Mountains Discovery Center hosts the Ruth and Sam Kirkby Earth Science Museum, which houses a unique collection of exhibits including the Crestmore Quarry, fluorescent minerals, Indian artifacts, mining exhibits, petrified wood, sea shells, dinosaur exhibits, fossils, rocks and minerals, and many more.

The onsite Granite Hill Nursery stocks a large variety of cacti and succulents, and the gardens showcase mature and unique species over several acres. A collection of butterfly gardens is under construction as part of ongoing Eagle Scout Service Projects. The Center also provides hands-on educational kits for educators, houses a critter corner in the gift shop, and hosts themed toddler times on Friday afternoons.

The Center is always looking for volunteers to assist in the many on-going activities from light construction work to assisting with tours and programs. This is a worthwhile and fulfilling opportunity for scientifically-minded individuals of all ranks, from students through working professionals to retirees. This service will look great on your resume! Please contact Executive Director Wes Andree at 951/685-5818 or director@jmdc.org for further details.

Visit the website at https://jmdc.org to learn more about the Jurupa Mountains Discovery Center!





Upcoming Meetings/Events

Inland Geological Society

In 2019, the Inland Geological Society will meet the first Tuesday or Wednesday of each month. The next meeting is scheduled for Wednesday, March 6th. For more information, visit our website at www.inlandgeo.org.

South Coast Geological Society



Monthly dinner meetings are typically the first Monday of each month. The January meeting will be a joint meeting of SCGS and SDAG on January 16th at the Green Dragon in Carlsbad. Diane Murbach, Matt Burgess, and Ken

Hudnut will present *A landscape altered: the explosive end to Kīlauea's summit lava lake and the lower East Rift Zone eruption of 2018.* For more information, visit the association website at www.southcoastgeo.org.

AEG—Southern California Chapter



The AEG — Southern California Chapter typically meets the second Wednesday of each month at Victorio's Ristorante in North Hollywood. The January meeting has not been announced yet. For more information, visit the association website at

www.aegsc.org.

AEG—Inland Empire Chapter



The AEG — Inland Empire Chapter typically meets the third Wednesday of each month at Pinnacle Peak Steakhouse, 2533 S. La Cadena Drive, Colton. The March meeting has not been announced yet. For more information, visit the

association website at www.aegsc.org/chapters/inlandempire.

Rock & Gem Shows—various locations

Various rock and mineral shows will be held throughout southern California. To find one near you, visit www.rockngem.com, then select the Show Dates tab.

San Diego Association of Geologists



Meetings are usually held the third Wednesday evening of each month. For more information, visit the association website at www.sandiegogeologists.org.

Los Angeles Basin Geological Society

Monthly

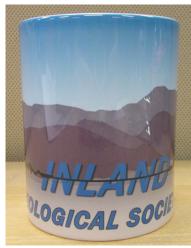


lunch meetings are typically the 4th Thursday of each month from 11:30 am to 1:00 pm at the Willow Street Conference Center, 4101 E. Willow Street, Long Beach. The January meeting has not been announced yet. For more information, visit the association

website at www.labgs.org.

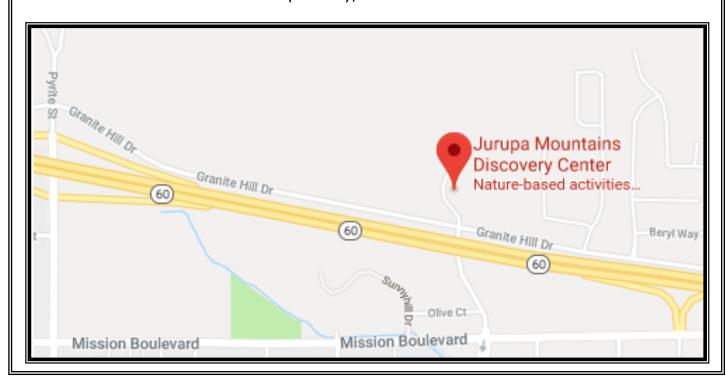
Get Your IGS Coffee Mug!

IGS coffee mugs are available at the monthly meetings for \$10. Get yours at the upcoming meeting!



IGS MEETING LOCATION:

Jurupa Mountains Discovery Center 7621 Granite Hill Drive Jurupa Valley, California 92509



IGS OFFICERS

President

Jessie Bagby CSUSB Alumni Jessie.p.bagby@gmail.com 951.551.7804

Treasurer

Margaret Gooding mgooding@roadrunner.com 909.434.5377

Newsletter Editor

Hunter Steinmuller UCR Undergraduate Student hstei002@ucr.edu

Co-Vice President

Jeff Fitzsimmons Lahontan RWQCB geojeff08@att.net 951.212.5018

Secretary

Shanna Delgado Project Analyst rsvp.igs@gmail.com

Web Master

Lance Pompe Ipompe@llu.edu

Co-Vice President

Debbie Kunath Consulting Geologist Debbie_Kunath@ymail.com 760.885.0232

Membership Chairman

Kirby Roucher Independent Contractor inlandgeologicalsociety@gmail.com 951.522.5318