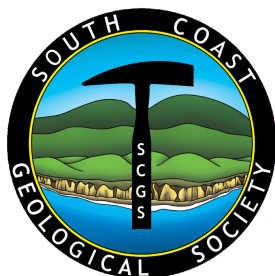


THE RECORD

OFFICIAL NEWSLETTER OF THE

South Coast Geological Society



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[MEETING](#)

[INFORMATION](#)

Social Hour: 6:00 PM

Dinner: 6:30 PM

Talk: 7:30 PM

[Location:](#)

[Dave & Buster's](#)

[20 City Blvd W.,](#)

[Bldg G #1](#)

[Orange, CA](#)

Cost:

Member \$30

Meeting Date: Monday, April 2, 2018

Guest Speaker: Philip Shaller, Ph.D., P.G., C.E.G.

Topic: The Wildfire-Flood Sequence in California:

Past, Present and Future

Abstract:

The wildfire-flood sequence is an all-too-common phenomenon in southern California. The fires destroy vegetation and ground litter and modify soil conditions, accentuating flood hazards in subsequent winter rainfall events. The type and severity of flooding following a wildfire is contingent on many factors, including: the nature of the burned material, the burn severity, the timing and intensity of post-wildfire rainfall, the history of wildfire in affected watersheds, the size and topographic relief of the burned watersheds, the watershed geology, and the characteristics of the built environment. The nature of the first rainfall event or "first flush" is of particular importance to the post-wildfire flooding hazard. In this talk, these factors are discussed in relation to the recent Thomas Fire and Montecito flooding. These recent events are also placed in historical context with prior examples of the fire-flood sequence in southern California. To conclude the talk, future manifestations of the wildfire-flood sequence are contemplated based on projections of current trends and the state of knowledge of the field.

Dinner Menu: Mediterranean Buffet with Hawaiian Glazed Beef

Satay Tenders, Souvlaki Grilled Chicken Breast, Grilled Vegetables, Citrus Rice, Classic Hummus, Greek Garden Salad, Pita Bread, Pita Chips, Churros, and Unlimited Coffee, Tea and Soda!

Click Here to RSVP for the

Non-Member \$35
Student/Professor
\$15
Late RSVP Fee \$5

Meeting!



**Philip Shaller, Ph.D., P.G., C.E.G.,
Senior Managing Scientist at Exponent**

Speaker Information:

Speaker Dr. Philip Shaller is a Senior Managing Scientist and head of the Geo Group within the Civil Engineering practice at Exponent – Failure Analysis Associates. He is headquartered in Exponent's Irvine, California office. After receiving an A.B. at Occidental College in Los Angeles and a M.S. in Geochemistry at the Montana College of Mineral Science and Technology in Butte, Montana, Dr. Shaller graduated from Caltech with a Ph.D. in Geology and a minor in Planetary Sciences in 1991. His dissertation research involved a comparative study of "long runout" landslides on Earth and Mars. For the past 25 years he has worked as an engineering geology consultant. He specializes in the assessment and mitigation of geologic hazards and has extensive experience in the investigation of landslides, debris flows, alluvial fan flooding, post-wildfire flooding hazards, expansive soils and collapsible soils. His expertise also includes geological and geomorphic site characterization by means of field mapping, aerial photo analysis, and the logging of subsurface borings. His career highlights include working for several years on the construction of the Getty Center in Los Angeles, California; analysis and modeling of the 2005 La Conchita landslide; geological and geochemical analysis of the 2006 Ka Loko dam failure, Kauai; and investigation of the Oso, Washington, landslide.

Presidents Corner

Hello South Coast Members!

Thank you for trekking out to Cal State Long Beach for a thought-provoking talk about volcanic ash deposits off the So Cal Coast. I think we're all hoping Dr. Behl is able to get more data and give us an update next year.

This upcoming Monday April 2nd Philip Shaller, Ph.D., P.G., C.E.G., from the Exponent Consulting Firm will present his topic The Wildfire-Flood Sequence in California: Past, Present and Future. The meeting will be held at the Dave & Buster's in Orange. I hope you're able to attend this very relevant talk for Southern California Geologists.

On Friday April 13th Cal State Fullerton's Geology Department will be hosting their annual Student Research Day which allows students to present their research (at whatever level of completion). SCGS will be providing judging and awards to the top presenters and their posters. Members of SCGS and the public are welcome to attend, a flyer is linked below.

The following day on April 14th SCGS will be offering its first short-course to learn how to utilize a Geographical Information System (GIS). The purpose of this class is to provide an introduction to the use GIS to prepare figures typically generated in the geological consulting fields. At the time of this writing there were still 8 spots available, you can sign up for the \$30, one day class hosted at the CSUF campus, by clicking the link below.

Upcoming for SCGS in the months ahead will be our May 7th meeting with a talk from Christopher Milliner of JPL regarding recent applications of InSAR and GPS for postseismic deformation and estimating water storage. Also, June 10th will be our next Hike and Brew with a hike around the Portuguese Bend Nature Reserve.

I would also like to distribute some information from the community. For you gemologists, Paul Gian has compiled a list of free gemology courses and resources, you can use the link at the bottom to get to his website. And if you or someone you know is looking for some adventure and an opportunity to serve those who do not have access to clean, reliable drinking water, the charity Ground Water Relief is looking for a junior hydrogeologist to assist in drilling wells for 2 to 3 months in Bangladesh.

Thank you for your time, see you on Monday

Cheers,

Ben Lewis
2018 President

RSVP here for GIS Short-Course

CSUF Research Day Information

Free Gemology Courses and Resources



Ben Lewis, SCGS President

MEMBERSHIP DRIVE

Your membership in 2017 allowed SCGS to host stellar field trips, provide over \$2,000 in student scholarships, and improve the society in many ways. South Coast Geological Society raises our annual budget through private contributions, so your membership is essential for us to continue the society, make improvements, provide phenomenal meetings, host field trips, and award student scholarships. To support the goals of SCGS we are asking for your membership renewal for 2018.

A membership to South Coast Geological Society has many benefits including discounted meeting and field trip costs, exclusive field trips and events, and more!

We welcome you to join SCGS, one of the largest, most active Geological Societies in Southern California.

Membership Costs:

Professionals: \$35 / year

Students: Free

Click Here for the Membership Form!

South Coast Geological Society Corporate Sponsorship

SCGS greatly appreciates our Corporate Sponsors! Corporate sponsorship allows SCGS to host stellar field trips, provide annual scholarships, and publish guidebooks. There are four Corporate Sponsorship

Levels: DIAMOND (\$1,000+), GOLD (\$500+), SILVER (\$250+), and BRONZE (\$100+).

THANK YOU 2018 SPONSORS!

DIAMOND (\$1,000+)

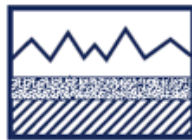
Your COMPANY LOGO here

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Mr. William (Bill) Elliott



NMG



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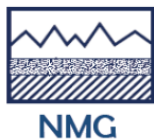
Rob Hawk

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BRONZE LEVEL



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Chris Baker



Carole Ziegler



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Bud Siemering*

Suzie Nawikas, H&P Mobile Geochemistry

Bill Elliot

*Supported 2 Student Sponsorship's

MEETING HIGHLIGHTS

We had an excellent showing of longtime and new members!

Richard Behl, Ph.D. provided us with an excellent presentation on *The Santa Barbara Record of Two Volcanic Winters Triggered by Twin Yellowstone Supervolcano Eruptions 631,000 years ago.*





JOB OPPORTUNITIES

Position: Geologist

Company: Group Delta

Location: Torrance, California

Details:

Group Delta is searching for a talented and motivated Geologist for our Torrance team.

- You will work in engineering geology, geotechnical engineering, and environmental engineering, requiring experience and training in those areas as a geologist
- Logging and sample collection during boring, fault trenching, test pit excavation, well installation, data collection from laboratory analysis, aerial photograph review.
- Occasional construction observation of grading, foundation installation, remediation for potential areas of contamination
- Interpret and correlate geologic and laboratory data, prepares cross-sections and maps
- Coordinate drilling, well installation, trench excavation subcontractor, remediation contractor

Requirements:

- Bachelor's Degree in Geology or related field
- GIT preferred
- Proficiency in Microsoft Office and other technical software
- HAZWOPER 40 Hour Certified a plus
- We want you to have strong analytical, organizational and communication skills and be passionate and motivated by geologic work.

[Please click the link below for more information and application instructions.](#)

[Click Here for More Information](#)

Position: Hydrogeologist

Organisation: Medecins Sans Frontieres Operational Centre Amsterdam

Project location: Cox's Bazar, Bangladesh

Details: MSF-OCA WatSan team is seeking to engage a hydrogeologist to support the on-going groundwater activities and follow on from the work carried out by the previous Groundwater Relief volunteers. This is a voluntary assignment. All travel, insurance and living costs will be covered by either MSF-OCA or Groundwater Relief and a generous daily stipend will also be provided.

Skills Required: We are seeking a highly motivated junior hydrogeologist with a minimum 2 years field experience and an MSc in hydrogeology. The hydrogeologist will need to be adaptable, practical and creative; have good communication skills; be able to problem solve in the field; be able to work and live in basic to difficult conditions.

[Click Here for More Information](#)

UPCOMING EVENTS

SCGS Hike & Brews

Hiking Coordinator - Garrett Mottle

Sunday, June 10th - Rancho Palos Verdes, CA

Hike: Portuguese Bend Nature Reserve

(distance & elevation TBA)

Brew: San Pedro Brewing Company

331 W 6th St, San Pedro, CA 90731

Sunday, August 19th - Pasadena, CA

Hike: Eaton Canyon Falls Trail via Eaton Canyon Nature Center

(3.5 miles round-trip, 375 feet elevation gain)

Trailhead: 1750 North Altadena Drive, Pasadena, CA 91107

Trailhead coordinates: 34.17832, -118.09663 (34° 10' 42"N 118° 05' 47.9"W)

Brew: TBD

[Click Here to RSVP - June Hike](#)

[Click Here to RSVP - August Hike](#)



South Coast Geological Society Hike+Brew: Whiting Ranch Red Rock Canyon

CSU Long Beach Geology Alumni Camp-out & Field Trips, April 6-8, 2018 at Mount Palomar



Hello Long Beach State Geology Alumni-

Remember the **great geology field trips** from your days at Long Beach State? These were some of the best parts of our college experience. We had a wonderful gathering last spring at Cachuma Lake where old friends and new got together to reacquaint, see great geology, eat good food and drink good wine and beer. Let's do it again!

We plan on having several 1/2-day field trips that spread out from the campsite or local hotel lodging to nearby locales - likely including a visit to the Oceanview tourmaline mine, the Peninsula Range batholith, neotectonics along the San Jacinto fault and maybe a tour of the famous observatory. You can pick which ones you want to attend, or skip them all and hang out with your buddies. Bring your spouses, bring your kids.

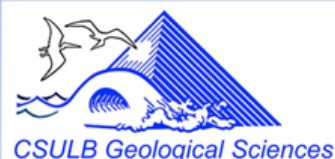
If this sounds good to you, please:

1. reply to Margaret Costello (margaret.costello@csulb.edu) that you:
a) will come, b) may come, c) will not be able to come.
2. If a) or b): how many people (tents/campers/hotel)?



In any case, please send us a few sentences about yourself, your family, work, where you live, etc. ... that we can share. Please forward to your classmates – we do not have everyone's current email addresses.

Hold the weekend for old times sake: April 6-7, 2017. More info, details, cost, etc. to follow early in 2018...but **HOLD THE DAYS!**

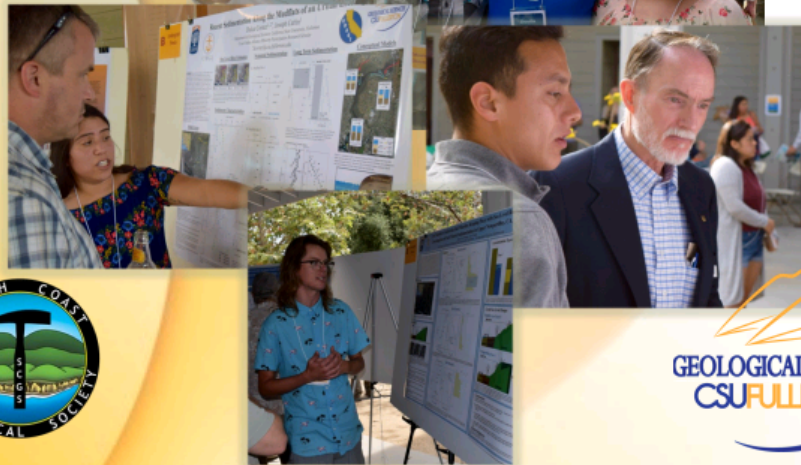


9th Annual CSUF Geological Science Research Day

Department of Geological Sciences
California State University, Fullerton

Save the Date

Fullerton Arboretum Pavilion
Friday, April 13, 2018
Time: 3-7 p.m.



GIS SHORT COURSE

South Coast Geological Society is offering its first short-course to learn how to utilize a Geographical Information System (GIS). The purpose of this class is to provide an introduction to the use GIS to prepare figures typically generated in the geological consulting fields.

Learning Outcomes: Participants will learn the basics of GIS and then start creating maps for a sample project including area and site maps, geologic/hydrogeologic data maps, well maps, and level/contour maps. The class includes lunch/beverages and a USB flash drive of course materials.

Class Capacity: 29 persons

Location:

Cal State Fullerton
800 N. State College Blvd., Fullerton, CA 92831

McCarthy Hall, Room 205
<http://www.fullerton.edu/campusmap/>

RSVP for GIS Short Course

ADDITIONAL LINKS

Association of Environmental & Engineering Geologists - So. California

Association for Women Geoscientists - LA/OC Chapter

American Society of Civil Engineers

Coast Geological Society

Groundwater Resources Association of California - So. California

Inland Geological Society

Los Angeles Basin Geological Society

San Diego Association of Geologists

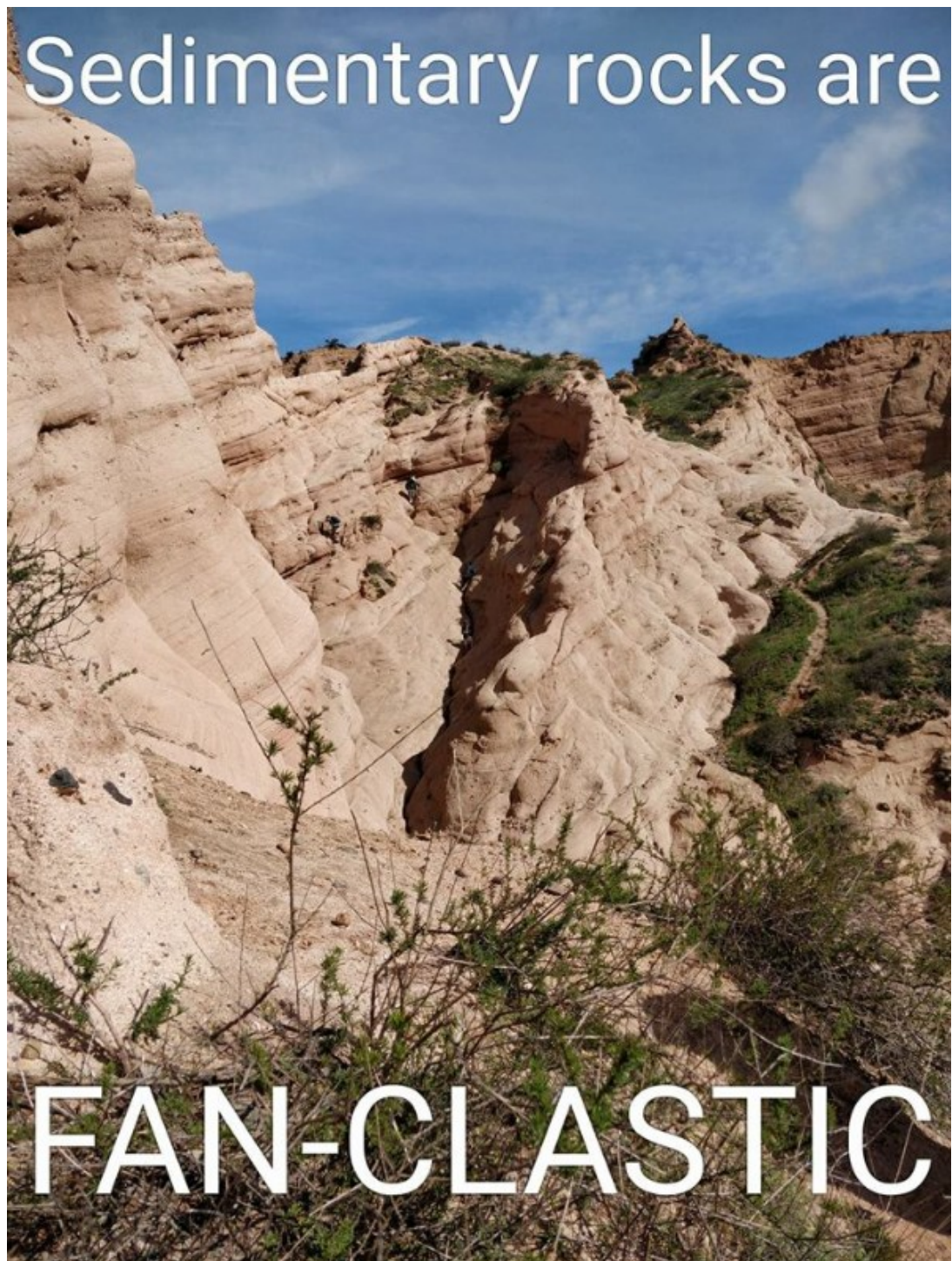
San Joaquin Geological Society

Southern California Paleontological Society

GEOLOGY FUN

Geologists are gneiss people





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