

# Inland Geological Society

August 2018

Newsletter of the Inland Geological Society

Volume 34 No. 8

Next Meeting:

**Wednesday  
August 8<sup>th</sup>**

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. 5)**

Coming to  
Dinner?

**Please RSVP  
to Jessie Bagby  
by Monday, 8/6  
rsvp.igs@gmail.com**

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**August Speaker:**

**Christopher Gentile, Graduate Student, University of California, Riverside**

**"Spatio-Temporal Relationships of Rock Avalanches  
in San Antonio Canyon, San Gabriel Mountains, CA"**

**Abstract:**

Landslides are a prevalent hazard in California, whether they are collapsing sea cliffs, slow earth flows, or rapid post-wildfire debris-flows. Rock avalanches are a very rapid type of mass wasting event that represents an underappreciated hazard in California. Rock avalanches are thought to not be as prevalent due to their interpreted ages being related to times (~20 ka) when the climate was much wetter than our current climate. However, a recent case study by Scherler et al. (2016) has found that rock avalanches in the San Gabriel Mountains are much younger than previously thought (~1 to 9 ka). We are using the San Antonio Canyon in the eastern San Gabriel Mountains as our own case study before a much larger study is performed on the San Gabriel Mountains or Transverse Ranges as a whole. Rock avalanche deposits, and associated fluvial and lacustrine deposits, are mapped using LiDAR data from NCALM and dated using several different methods to understand their spatio-temporal relationships. Rock avalanche deposit textures are described to help differentiate these deposits from fault gouge.

**Biography:**

Christopher earned his Bachelor of Science in Geological Sciences with a concentration in Geobiology from U.C. Riverside in March 2016, completing his senior thesis under Dr. Mary Droser on a paleoecology project looking at insect bite mark changes on leaf

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**Biography (cont.):**

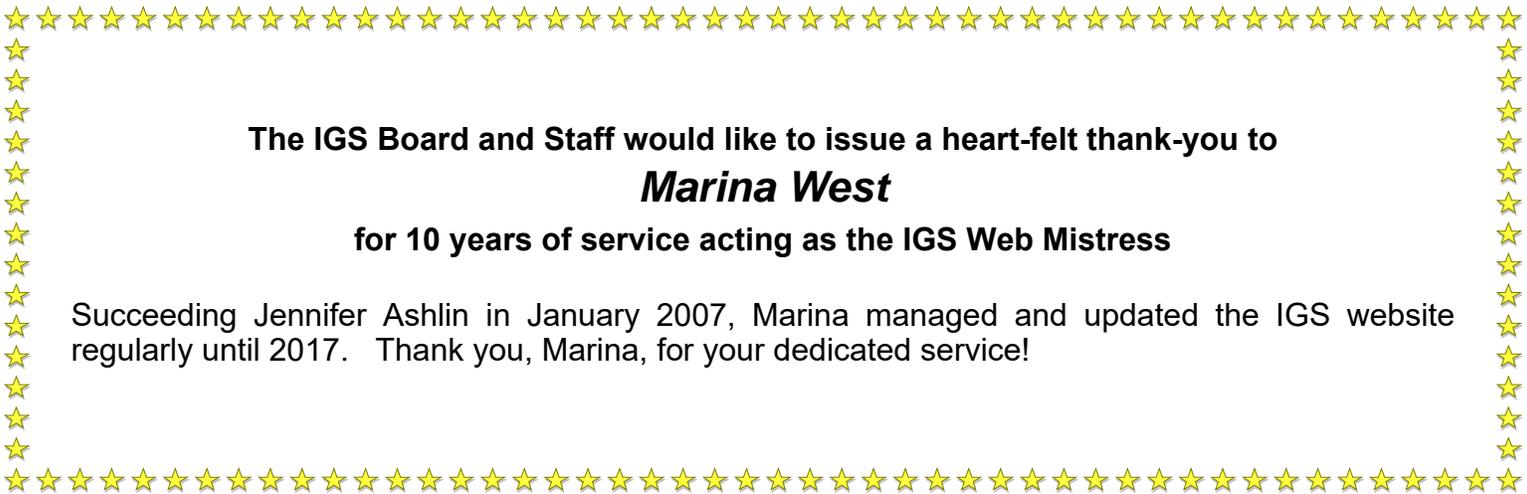
fossils from the Santa Ana Mountains through the Paleocene-Eocene Thermal Maximum. While attending UCR, Christopher also developed and taught a lower division class on Dinosaurs at UCR through their R'Course program. He worked at Jurupa Mountains Discovery Center, developing a high school-level science-based day camp and leading tours, while waiting for the start of his master's program in Geological Sciences at UCR, which he will complete in September. Christopher is concurrently earning an M.Ed. in the Teaching Credential program at UCR.

## IGS OFFICER POSITIONS OPENING THIS WINTER

The IGS President and Secretary board member positions will be open this fall for the election of new officers for 2019. IGS Officer elections will take place in November so that training may take place in December and new officers can begin serving in January. All nominations for the positions of President and Secretary should be submitted to the current Secretary, Jessie Bagby, at [rsvp.igs@gmail.com](mailto:rsvp.igs@gmail.com) for inclusion on the ballot. All members, including students, are invited to volunteer or nominate appropriate individuals for these positions.

## NOTICE OF CHANGE OF DINNER POLICY

For our monthly meetings, IGS typically orders meal quantities based on the number of responses made by the RSVP deadline published in the newsletter each month. Although we are always pleased to have as many people as possible in attendance, dinner may not be available to those who have not responded in time to be counted in the dinner order. ***Beginning in October 2018, those who have not responded by the published deadline will not be served dinner at the monthly meetings until all those who have reserved a meal have received one.*** Those who do not RSVP are still invited to attend for drinks, networking, announcements, and the dinner speaker free of charge. We appreciate your cooperation with this change in policy and encourage you to RSVP by the published date each month. We look forward to seeing you there!


  
**The IGS Board and Staff would like to issue a heart-felt thank-you to**  
***Marina West***  
**for 10 years of service acting as the IGS Web Mistress**

Succeeding Jennifer Ashlin in January 2007, Marina managed and updated the IGS website regularly until 2017. Thank you, Marina, for your dedicated service!

**The California Geological Survey has released the following announcements:**

- ⇒ Map Sheet 52 (2018 update): Aggregate Sustainability in California - Fifty-Year Aggregate Demand Compared to Permitted Aggregate Reserves
- ⇒ Landslides, Geomorphology, and Geology of the Owl Creek and Inaqua Buttes 7.5' Quadrangles, Humboldt County, California
- ⇒ California's Non-Fuel Mineral Production in 2016

For more information and to read the announcements in their entirety, visit the CGS website at <http://www.conservation.ca.gov/cgs>.

**Upcoming Events**

**AEG Annual Meeting**

Registration is now open for the AEG Annual Meeting to be held September 15-23, 2018, in San Francisco, California. For more information and to register, read more at <https://www.aegannualmeeting.org/>. As part of this year's conference, a four-hour workshop will be offered for grade 4-12 teachers looking for new and exciting material for the classroom. For more information on the workshop, read more at <https://amrms.app.box.com/s/qpa9h013r4mopswdyldamhdr28tfz25z>.

**International Petroleum Environmental Conference (IPEC)**

The 25th IPEC will be held from October 30-November 1, 2018, in Denver, Colorado. Abstracts and registration are now being accepted. For more information, read more at <https://cese.utulsa.edu/ipec-conference/>.

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.

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

Steven Mains of Watermaster Support Services is pleased to announce the completion of the  
**Spring 2018 Cooperative Well Measuring Program**

This project, which started in the Spring of 1964, lists water level data from wells in

- ◆ the Upper Santa Ana Basin
- ◆ the San Jacinto Basin
- ◆ the western portion of the White Water River Basin
- ◆ and portions of the Santa Margarita Basin

More than 5,000 wells from 80 different reporting agencies are listed, with almost 1,500 new measurements added in this Spring Report. Please contact Steve at (951) 201-6571 or [watermains@aol.com](mailto:watermains@aol.com) for pricing. Your continued support keeps this data gathering project viable.

## Upcoming Meetings/Events

### Inland Geological Society

The Inland Geological Society typically meets the first Wednesday or Thursday of each month. Join us on Wednesday, September 5th for our next dinner meeting. Kerri O'Keefe will present "Characterization of the winter 2017 Snow Creek Canyon mass wasting event, Forest Falls, CA". For more information, visit our website at [www.inlandgeo.org](http://www.inlandgeo.org).

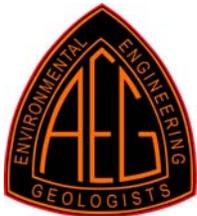
### South Coast Geological Society



Monthly dinner meetings are typically the first Monday of each month. The August meeting has not been announced yet. For more information, visit the association website at

[www.southcoastgeo.org](http://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 August meeting has not been announced yet. For more information, visit the association website at

[www.aegsc.org](http://www.aegsc.org).

### AEG—Inland Empire Chapter



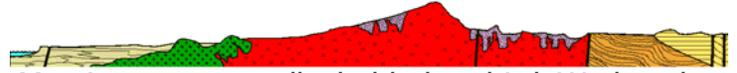
The AEG — Inland Empire Chapter typically meets the third Wednesday of each month at Pinnacle Peak Steakhouse, 2533 S. La Cadena Drive, Colton. There will be no meetings in August and September. The next scheduled meeting will be held October 17th. For more

information, visit the association website at [www.aegsc.org/chapters/inlandempire](http://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](http://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. The August topic will be a seismic case study by Alan Hull. For more information, visit the association website at [www.sandiegogeologists.org](http://www.sandiegogeologists.org).

### Los Angeles Basin Geological Society

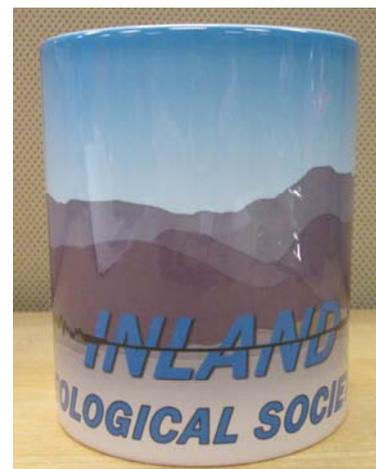


Monthly lunch meetings are typically the 4th Thursday of each month from 11:30 am to 1:00 pm at the Willow Street Conference Center, 4101 E. Willow Street, Long Beach. The August meeting has not been announced yet. For

more information, visit the association website at [www.labgs.org](http://www.labgs.org).

### Get Your IGS Mug!

Get your beautiful IGS ceramic mug, available for \$10 at the monthly meeting!



**IGS MEETING LOCATION:**  
**Jurupa Mountains Discovery Center**  
 7621 Granite Hill Drive  
 Jurupa Valley, California 92509



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