

Inland Geological Society

March 2015

Newsletter of the Inland Geological Society

Volume 31 No. 3

This Meeting:
Thursday,
March 5th

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

Location:
LSA Associates
1500 Iowa Ave
Suite 200
Riverside, CA
92507
(Map on Pg. 4)

Coming to
Dinner?
Please RSVP:
By Monday 3/2
(951) 784-2168
dixie.lass@att.net

In this Issue:

- March Speaker – Dr. Jeffrey R. Keaton 1-2
- Upcoming Events/IGS Meeting Schedule..... 3
- Current IGS Officers 4
- **LSA MEETING LOCATION MAP** 4

March Speaker:

Jeffrey R. Keaton, PhD, PE, PG, D.GE, F.ASCE, F.GSA
Principal Engineering Geologist, AMEC Americas, Los Angeles, CA

Geer Reconnaissance of the 22 March 2014 Oso, Washington Landslide

Abstract

The Oso, Washington Landslide occurred in a rural location about 80 km north of Seattle on the morning of Saturday, 22 March 2014, and claimed the lives of 43 people, making it the deadliest isolated landslide disaster in United States history. The landslide initiated within an approximately 200-m-high hillslope comprised of unconsolidated glacial and colluvial (landslide) deposits; it rapidly transitioned to a debris flow/debris avalanche that swiftly inundated a neighborhood of approximately 35 single-family residences. A 3-week period of heavy rainfall that immediately preceded the event is believed to have played a major role in triggering the landslide; however, it was the only major slope movement that occurred in the region. The Geotechnical Extreme Events Reconnaissance (GEER) Association scientific research team of seven professionals from three universities, two consulting companies, and one federal agency performed a field reconnaissance of the Oso Landslide shortly after its occurrence. The presentation will focus on observations made and data collected by the GEER team at the landslide site, but additionally will review regional and local geologic conditions, climate setting, eyewitness accounts, and land-use history identified by GEER. Finally, a preliminary hypothesis will be presented to link field observations to landslide initiation, mobilization, and runout behavior. The GEER report on the Oso Landslide is available for no-cost download from the GEER website (www.geerassociation.org).

(Continued on page 2)

(Continued from page 1)

Biography:

Jeffrey R. Keaton specializes in quantifying hazardous natural processes for siting and design of all types of facilities in all geologic environments. He has degrees in Geological Engineering, Engineering (Geotechnical), and Geology. Keaton has been employed by consulting firms for over 40 years, and in Amec Foster Wheeler's Los Angeles office of since July 2005 where he is a Principal Engineering Geologist. He is registered in several states as an Engineer and as a Geologist; he hold the Envision Sustainability Professional (ENV SP) credential from the Institute for Sustainable Infrastructure and is a Diplomat, Geotechnical Engineering of the Academy of Geo-Professionals.

He has remained active in professional societies throughout his career. He is a past president of the *Association of Environmental & Engineering Geologists* and currently serves the *International Association for Engineering Geology and the Environment* as Vice President for North America, and the *American Society of Civil Engineers* as a member of the Committee on Sustainability and the chair of its Strategic Communications Subcommittee. He also is chair of the Sustainability in Geotechnical Engineering Committee of ASCE's *Geo-Institute*.

Contact Information:

Jeffrey R. Keaton, PhD, PE, PG, D.GE, F.ASCE, F.GSA
Amec Foster Wheeler
Americas – Environment & Infrastructure
6001 Rickenbacker Road
Los Angeles, CA 90040

Phone: (323) 889-5316
Mobile: (323) 215-8454
Email: Jeff.Keaton@amecfw.com
Website: www.amecfw.com

To All Earth Sciences Majors

We have received many inquiries regarding to poster sessions. Our April 1, 2015 meeting will be dedicated to students' poster presentations and/or summations. Interested students are asked to respond by **March 16, 2015**. Please provide:

Name:

Affiliation:

Biography:

Abstract (500 words max):

Choose: Poster Presentation, Summation or both.

Summations should be approximately 5 minutes in length.

Submit your request to Jeff Fitzsimmons (geojeff08@att.net) and/or Steve Mains (watermains@aol.com).

Upcoming Meetings/Events

Rock & Gem Shows—Various locations

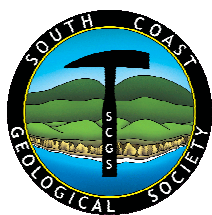
Various rock and mineral shows will be throughout So. California. To find one near you, visit www.rockngem.com/showdates.asp

AEG—So. California Chapter Meeting



The meeting details for the next meeting for the AEG-Southern California Chapter is to be announced. For more info., visit the So. California Chapter at www.aegsc.org/calendar/.

South Coast Geological Society Meeting



Dr. Greg Holk, CSU Long Beach Professor, will be presenting a talk on "Faults as Superhighways of Fluid Flow Through Earth's Crust" on **Monday, March 2, 2015** at the CSULB

Chartroom in Long Beach, CA. For more info., visit SCGS on Facebook and/or www.southcoastgeo.org.

AEG—Inland Empire Section



AEG-Inland Empire Section meetings are generally held on the third Wednesday of each month. For more info., visit www.aegsc.org/chapters/inlandempire/index.php.

Los Angeles Basin Geological Society



LABGS generally has their meetings on the fourth Thursday of each month. Visit their website for more info. (www.labgs.org).

San Diego Assoc. of Geologists Field Trip



SDAG March and April meetings will be hosting student presentations on **Wednesday, March 18, 2015** and **Wednesday, April 15, 2015**. For more info, visit www.sandiegogeologists.org.

San Diego Assoc. of Geologists Field Trip



Monte Marshall will be presenting a talk on the "Geology of the Polynesian Islands" on **Tuesday, May 12, 2015**. For more info, visit www.sandiegogeologists.org.

IGS Meeting Schedule

March 5, 2015 (Thursday)

TBD

April 1, 2015 (Wednesday)

Showcase of UCRs Intro to GIS Student Projects: Student Presentations

April 23, 2015 (Thursday)

2015 So. California Joint Societies Meeting
Society of Mining, Metallurgy & Exploration
Ass. of Engineering & Environmental Geologists
Inland Geological Society
Speaker: Kay Pitts, Reservoir Manager
Aera Energy LLC, Bakersfield, CA

IGS MEETING LOCATION:

LSA Associates, Inc.
1500 Iowa Ave, Suite 200
Riverside, CA 92507

**2015 IGS OFFICERS****Co-President**

Greg Johnson, LADPW
 gjohnson@dpw.lacounty.gov
 626.458.1741

Co-President

Rob Johnson, AMEC
 rob.b.johnson@amec.com
 951.369.8060

Co-Vice President

Jeff Fitzsimmons, John R. Byerly, Inc.
 geojeff08@att.net
 909.877.1324

Co-Vice President

Debbie Kunath, Consulting Geologist
 Debbie_Kunath@ymail.com
 760.885.0232

Treasurer

Margaret Gooding, LSA Associates
 Margaret.gooding@lsa-assoc.com
 951.781.9310 x279

Secretary

Dixie Lass, Retired
 Dixie.lass@att.net
 951.784.2168

Membership

Steven E. Mains, Watermaster
 Support Services
 watermains@aol.com
 951.780.5636

Newsletter Editor

Shelby Barker, AECOM
 shelby.barker@aecom.com
 760.680.0389

Web Mistress

Marina West, Bighorn Desert View
 Water Agency
 wells.out.west@gmail.com
 760.910.3264

Web Master

Ernie Roumelis, AKW Geotechnical
 eroumelis@verizon.net
 951.265.9849