

Inland Geological Society

July 2011

Newsletter of the Inland Geological Society

Volume 27 No. 7

This Meeting:

Thursday,
July 7th

Time:

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

Location:

LSA Associates
1500 Iowa Ave
Suite 200
Riverside, CA
92507

(Map on Pg. 4)

**Coming to
Dinner?**

Please RSVP:

By Tuesday 07/05
(951) 784-2168
dixie.lass@att.net

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July Speaker:

Dr. Nate Onderdonk

Associate Professor, Dept. of Geological Sciences
California State University, Long Beach



Pre-historic earthquake history of the northern San Jacinto fault zone and implications for seismic hazard estimates and rupture patterns in the southern San Andreas fault system

Abstract

Dr. Nate Onderdonk will present data from a new paleoseismic site along the Claremont segment of the northern San Jacinto fault zone. The site is located within a small sag formed between two fault strands that pass through the eastern side of Mystic Lake in the San Jacinto Valley. A series of trenches excavated across the sag exposed faulted and folded sedimentary strata that record at least seven ground-rupturing earthquakes over the past 1,600 years. Evidence for past surface deformation is present in the form of upward terminating faults, folding, angular unconformities, and pinching of layers against a paleoscarp. The ages of the events are constrained by 50 radiocarbon dates from detrital charcoal. The recurrence interval for the last seven events ranges from 159 to 210 years and the most recent event occurred sometime between AD 1738 and about AD 1800, which suggests the fault is "overdue" for a large earthquake. I will compare the new data from Mystic Lake with paleoseismic data from the central San Jacinto fault understand the San Andreas fault, and discuss the implications for rupture patterns and the possibility of ruptures jumping from one fault to the other.

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Biography:

Nate Onderdonk is an Assistant Professor in the Dept. of Geological Sciences at Long Beach State University. He earned a BS in Physics from Principia College and an MS and PhD in Geology from UC Santa Barbara. He spent two years as a post-doc at the University of Oslo, Norway studying arctic geology in western Norway, Spitsbergen, and eastern Greenland. His research spans a range of topics in the fields of tectonics and geomorphology and currently includes tectonic rotation in California, the San Jacinto fault zone, and hydrothermal seeps in the Imperial Valley.

STUDENT ASSISTANTS

NEEDED

FOR WATER QUALITY PROTECTION
IN VICTORVILLE

DO YOU WANT TO WORK TO PROTECT WATER QUALITY?

The California Regional Water Quality Control Board, Lahontan Region (CAL EPA) is hiring students, who are majoring in either engineering, computer science, environmental science, geology or Geographic Information Systems (GIS). Either undergraduate or graduate students may apply to the California Regional Water Quality Control Board Office in Victorville for part-time work during the academic year and full-time work during the summer. Students will assist in review of water monitoring reports, collect and evaluate environmental data and assist with field sampling. Students may also assist in writing short reports and correspondence on water quality related projects. Tasks are performed under close supervision by permanent staff. Student assistants are routinely expected to assist in various administrative tasks on an as needed basis.

Requirements Include:

For part-time school term employment - proof of application for, or enrollment in, a college curriculum preparing for a undergraduate or graduate degree with full-time student status;

- For full-time summer employment - proof of enrollment for the subsequent fall term and/or previous spring term.

This will provide an excellent opportunity for student assistants to get important experience in the field of water quality and have a potential to work as regular employees for the Regional Board after graduation. This position will be open until filled.

Students interested in applying should email their resume to rphillip@waterboards.ca.gov or contact the number below:

**REBECCA PHILLIPS, ADMINISTRATIVE ASSISTANT
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION
14440 CIVIC DRIVE, SUITE 200
VICTORVILLE, CALIFORNIA 92392**

For more information, please call (760) 241-7306

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

South Coast Geological Society Meeting



The next South Coast Geological Society meeting (Speaker to be determined) will be held on **Monday, July 11, 2011** at the Doubletree Club Hotel in Santa Ana, CA. For more info., visit www.southcoastgeo.org

Fourth IWA Specialty Conference

The topic of this year's conference will be *Natural Organic Matter: From Source to Tap and Beyond* and will be held **July 27–29, 2011** in Costa Mesa, CA. For more info., visit www.regonline.com/NOM2011

28th Biennial Groundwater Conference & 20th Annual GRA Meeting

The Groundwater Resources Association will be having their biennial groundwater conference and annual meeting on *California's Water Future Goes Underground* on **October 5–6, 2011** at the Radisson Hotel in Sacramento, CA. For more info., visit www.grac.org/

SME—SoCal Section Beach Party



Gene and Lynne Dewey will be hosting this year's SME—SoCal section summer beach party. The beach party will be on **Saturday, August 20, 2011** at the Portuguese Bend Beach Club, Rancho Palos Verdes, CA. For more info., visit www.smenet.org/

IGS Meeting Schedule

No August Meeting

September 1, 2011 (Thursday)
TBA

October 5, 2011 (Wednesday)
TBA

November 3, 2011 (Thursday)
TBA

December 7, 2011 (Wednesday)
TBA

NO AUGUST MEETING

Enjoy your summer fun and vacations and we'll see you at the September meeting!

SPEAKERS WANTED

We are still looking for more speakers for future meetings.

Tell us what you have been working on!

Please contact Jon Smith, Cindy Li or Steve Mains to get your name in the schedule!

IGS MEETING LOCATION:

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

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