

**The Department of Geological Sciences
at California State University, San Bernardino;
Society for Mining, Metallurgy, and Exploration;
Inland Geological Society; and Association of Environmental &
Engineering Geologists
request the honor of your company at the**

Southern California Joint Societies Meeting

Thursday, the 6th of February, 2014

Reception and Social Hour at 6:00 PM, Dinner at 7:00 PM, Program at 7:30 PM
Obershaw Dining Room, CO-205, CSUSB Campus (see attached map)

The social hour will feature informational booths from mining operations and environmental firms in Southern California, and a CSUSB Geology Alumni reception.

Dinner

Asian Salad, Garlic Lemon Ginger Broccoli, Sticky Rice, Vegetable Lo Mein,
Cilantro Breast of Chicken, Fortune Cookies

(Special dietary needs accommodated by request)

The evening program will feature a presentation by Dr. Frederick Chester, Professor, Department of Geology and Geophysics, Texas A&M University. Dr. Chester is the 2013-14 Distinguished Lecturer for the Integrated Ocean Drilling Program, Consortium for Ocean Leadership. Dr. Chester will speak about recent advances in deep drilling, which permitted a rapid response team to drill into the Japan Trench at the site of the 2011 magnitude 9.0 earthquake to make observations and deploy instruments. Dr. Chester will address the technical challenges, and scientific results of this work

Please R.S.V.P. using the enclosed card by Friday, January 31st



Program Speaker: Dr. Frederick Chester- Professor, Department of Geology and Geophysics, Texas A&M University.

Frederick Chester

Texas A&M University

2013-2014 Distinguished Lecturer

Sampling the Source of the 2011 Japan Earthquake and Tsunami

The fault slip during the 2011 Tohoku-oki earthquake, which reached over 50 meters near the Japan Trench, is the largest observed, and it is responsible for the tsunami that devastated the coast of northeast Honshu, Japan. Although the cause of significant seismic slip at shallow depths is not entirely understood, a number of possible contributing factors have been identified. Key questions include how displacement was accommodated near the trench, and whether coseismic weakening of the shallow megathrust had a role in the mechanics of such large displacement. These and other questions were addressed by the Japan Trench Fast Drilling Project, Expedition 343/343T, undertaken by the Integrated Ocean Drilling Program (IODP). Drilling the plate boundary interface was technically challenging because of the 6.9 km water depth and the need to penetrate > 800 m through the prism to reach the subducting plate. Nonetheless, three successful holes were drilled to the target depth for geophysical logging, coring, and placing instruments across the fault to measure the frictional heat produced during the earthquake. I will summarize the scientific motivation for the rapid response expedition, the challenges that were overcome, and the truly unique findings that shed light on the Tohoku-oki event and other tsunamigenic subduction zones worldwide.



Dr. Chester studies the mechanics of earthquake faulting. He served as a structural geologist on IODP Expedition 316 of the Nankai Trough Seismogenic Zone Experiment and as co-chief scientist on the Japan Trench Fast Drilling Project, IODP Expedition 343/343T.

**Southern California Earth Resource Awareness Meeting
6:00 p.m. Feb 6th, 2014 - CSUSB Campus**

\$25 per attendee - \$8 Students - children free (under 12)

I (we) will attend I (we) will be unable to attend

— Number of guests

Please print the name(s) of attendee(s) you are paying for at the bottom of this card and provide contact information.

Enclosed is my check
(please make check payable to CSUSB Geological Sciences Dept.)

RSVP, but will pay at the door

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Name(s)	affiliation(s)			
	S M E	I G S	A E G	CSUSB, Alumi, Other
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Contact Phone or e-mail _____

To RSVP, please return this card/payment to:

**Dr. Erik Melchiorre
Geological Sciences, CSUSB
5500 University Parkway
San Bernardino, CA 92407**

909-537-7754 emelch@csusb.edu

CALIFORNIA STATE UNIVERSITY SAN BERNARDINO

5500 University Parkway, San Bernardino, CA 92407-2393
(909) 537-5000 • <http://www.csusb.edu>

Campus Map 2012

January 9, 2012

*Parking permits are required to park on campus at all times - 24 hours a day/7 days a week. <http://admin?n.csusb.edu/parking>

Legend

- Disability/Medical Parking Areas
- Emergency Phones
- Bicycle Racks
- Information Center (IC)
- Parking Permit Dispensers*

- AD Administration
- AF Auto Fleet Services
- AH Animal House/ Vivarium
- AR Academic Research
- AS Administrative Services
- AV Arrowhead Village Housing
- BI Biological Sciences
- BK Coyote Bookstore
- CC Children's Center
- CE College of Education
- CO Commons
- CS Chemical Sciences
- DD Univ. Center for Developmental Disabilities
- ES Environ. Health & Safety



- FB Foundation Building
- FM Facilities Management
- FO Faculty Office Building
- HA HVAC Central Plant
- HC Health Center
- HP Health & PE Complex/ Coussoulis Arena
- IC Information Centers
- JB Jack H. Brown Hall
- OB Murillo Family Observatory
- PA Performing Arts/ Theatre/ Recital Hall
- PE Physical Education
- PK1 Parking Structure West
- PK2 Parking Structure East
- PL John M. Pfau Library
- PS Physical Sciences
- PW Plant/Central Warehouse
- RF Student Rec. & Fitness Ctr.
- SB Social & Behavioral Sciences
- SH Sierra Hall
- SU Santos Manuel Student Union
- SV Serrano Village
- TC Temp. Classrooms
- TK Temp. Kinesiology Annex
- TO Temp. Offices
- UH University Hall
- UP University Police
- UV University Village
- VA Visual Arts Center/Robert & Frances Fullerton Museum of Art
- YC Yasuda Ctr. for Ext. Learning



Event Location