

AGENDA

7th Annual Northern California Earthquake Hazards Workshop January 26-27, 2010

USGS, Bldg. 3, 2nd Floor Conference Room 3-240, Menlo Park, CA

TUESDAY JANUARY 26

REGISTRATION **8:00 - 8:45 AM**

Welcoming Remarks-

David Schwartz, Northern California NEHRP Coordinator **8:45 – 9:00 AM**

Faults North of San Francisco Bay – Moderator: David Schwartz **9:00 – 10:00 AM**

Talks will be 10 minutes each

Chris Goldfinger (Oregon State Univ.)

Exploring a possible stress triggering relationship between Cascadia and the NSAF

Aurelie Guilhem (UC Berkeley)

Development and Implementation of Continuous Moment Tensor Scanning for
Offshore Seismicity and Tsunami Early Warning

Robert McLaughlin (US Geological Survey)

Geologic Framework of the Northern San Andreas Fault Zone near Point Arena, CA

Mike Rymer (US Geological Survey)

Summary of high-resolution seismic profiling across the San Andreas, Rodgers Creek,
Hayward, and other faults, San Francisco Bay Area

Robert Givler (FUGRO William Lettis & Assoc.)

Structural Characterization and Pilot Paleoseismic Investigation of the Southernmost
Rodgers Creek Fault, northern San Pablo Bay

Gareth Funning (UC Riverside)

Creep on the Hayward-Rodgers Creek-Maacama fault system from space geodetic
data

COFFEE BREAK – **10:00-10:20 AM**

The Hayward Fault – Moderator: Brad Aagaard **10:20 – 11:10 AM**

Talks will be 10 minutes each

Peggy Hellweg (UC Berkeley)

Earthquake Early Warning (Hayward Fault)

Brad Lipovsky (UC Riverside)

Time dependant creep models on the Hayward fault

Hans AbramsonWard (AMEC Geomatrix)

A Segmentation Model for the Pinole Fault Zone
Pat Williams (San Diego State Univ.)
Northern Hayward fault slip rate evaluation --- results to date
Brad Aagaard (US Geological Survey)
Probabilistic estimates of surface slip for large Hayward fault earthquakes

The South Bay and Other Faults– Moderator: Steve Delong 11:10 -12:00 PM

Talks will be 10 minutes each

Russ Graymer (US Geological Survey)
The Northern California Quaternary Fault Map Database
Carl Wentworth (US Geological Survey)
Silver Creek Fault, Santa Clara Valley, California – revisited
Bill Bakun (US Geological Survey)
The 2007 M5.4 Alum Rock, California, Earthquake: Implications for Future Earthquakes on the Central and Southern Calaveras Fault
Steve Delong (US Geological Survey)
Use of High Resolution Topographic data in Earthquake Geology Research
Barbara Romanowicz (UC Berkeley)
Real time data from the ocean floor broadband observatory MOBB

LUNCH AND POSTER VIEWING 12:00 – 1:00 PM

Geodetic, Seismicity and Hazards Session – Moderator: Jack Boatwright 1:00 – 2:10 PM

Talks will be 10 minutes each

Roland Burgmann (UC Berkeley)
Space Geodetic Investigations of Natural Hazards in the Bay Area
Taka'aki Taira (UC Berkeley)
Developing a Methodology for Observing Fault-Zone Frictional Properties from Repeating Earthquakes at depth
Felix Waldhauser (Lamont Doherty, Columbia University)-Talk given by David Oppenheimer (US Geological Survey)
Towards real-time double-difference event relocation at the CISN
Peggy Hellweg (UC Berkeley)
Seismic Coordination between UC Berkeley and the USGS
Sarah Karlinsky (SPUR)
Planning for Disaster Recovery
Jeanne Perkins (ABAG)
Providing Web-Based Information on Bay Area Hazards and Mitigation

Jack Boatwright (US Geological Survey)
The Bay Area Earthquake Alliance: Year One

BREAK – Poster Viewing

2:20-2:50 PM

The Sacramento-San Joaquin Delta – Moderator: Tom Holzer

2:50 – 4:40 PM

Talks will be 10 minutes each, followed by 30 minutes of discussion

Tom Holzer (US Geological Survey)

Overview

Roger Fujii (US Geological Survey)

WRD Research in the Delta

Ivan Wong (URS Corp.)

The DRMS (Delta Risk Management Strategy) Project

Jeff Unruh (FUGRO William Lettis & Assoc.)

Late Cenozoic Activity of the Midland Fault, Sacramento-San Joaquin Delta

Gerald Bawden (US Geological Survey)

InSAR Measured Subsidence in the Sacramento-San Joaquin Delta, California

Charles Real

Application of new Liquefaction Hazard Mapping Techniques to the Sacramento-San Joaquin Delta Area

Cliff Thurber (UW Madison)

Seismic Tomography of the Sacramento River Delta Region

Joe Fletcher (US Geological Survey)

Site Response in the Sacramento/San Joaquin Delta

Adjourn

4:40 PM

Group Dinner for those Interested

6:00 PM

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WEDNESDAY JANUARY 27

Seismic and Geodetic Instrumentation in northern California – Presentations

9:30 –10:30 AM

Jack Boatwright (USGS) - Introduction

Comments by Panelists

- Adrian Borsa, UNAVCO
- Jessica Murray-Moraleda, USGS Geodesy
- Malcolm Johnston, USGS Borehole Strain Networks
- Barbara Romanowicz, Berkeley Seismographic Lab
- Jim Luetgert, USGS, Northern California Seismic Network
- Tony Shakal, California Geological Survey

Paul Spudich and Jessica Murray-Moraleda (USGS)
Summary of Northern California Instrumentation

COFFEE BREAK – Poster Viewing

10:30 –10:50 AM

Seismic and Geodetic Instrumentation in northern California – Panel Discussion

10:50 –12:00 PM

Moderators: Jack Boatwright and Paul Spudich

Lunch

12:00-12:30 PM

Break-Out Sessions

12:30 – 2:00

PM

Outreach and Websites (led by Jack Boatwright)

Geodetic (led by Jessica Murray-Moraleda)

Making the Geologic Map (led by Russ Graymer)

Seismic Velocity (led by Brad Aagaard)

Break Out Summaries

2:00-3:00 PM

Workshop Discussion: Where Do We Go From Here in the Bay Area?

3:00-4:00 PM

Moderator: Jack Boatwright, Northern California NEHRP Coordinator

Posters (Alphabetical Order by First Author)

Tim Dawson

Paleoseismic Record of Earthquakes on the Santa Cruz Mountains Segment of the San Andreas Fault: Testing the Influence of the Northern Transition Zone Using Earthquake Chronologies

Michael Floyd

Preliminary geodetic observations of fault motions along the Rodgers Creek-Maacama faults

Peggy Hellweg

The M 6.5 Ferndale Earthquake 4:27 PST 9 January, 2010 (00:27 UTC 10 January 2010)

Tom Holzer

Liquefaction probabilities for surficial geologic units

Malcolm Johnston

Implications for Earthquake Hazards from Real-time Multi-parameter Monitoring of Strain, Tilt, Pore Pressure, Displacement

Keith Kelson

Update on Digital Compilation of Data for the Contra Costa Shear Zone, for the Northern California Quaternary Fault Map Database

Keith Knudsen (URS Corp.)

Delta Paleo-landsurface at base of peat and soft organics

Jim Lienkaemper

Bartlett Springs fault: Map of the active traces and update on creep rates

Pete Lombard

Shakemap for the M6.5 Ferndale Earthquake

Jim Luetgert

NetQuakes: Urban strong-motion seismology via the Internet

Robert McLaughlin

The Bartlett Springs fault Zone: A Reactivated Tertiary convergent margin structure

Carol Prentice

Slip Rate studies on the Peninsula San Andreas

Stephanie Ross

Structure and Behavior of the San Gregorio Fault, offshore Half Moon Bay, CA

Linda Seekins

Directivity for moderate earthquakes in northern California

Jerry Svarc

Expanded campaign GPS coverage for estimating Creep on North Bay faults