



# GeoSym10 Webinar 2



## Geology Symposium 2010 (GeoSym10-2) September 14, 2010 Webinar Announcement

### *ER and Preparedness for Natural Disasters*

Dear GeoSym'10 Participant:

For GeoSym'10, we scheduled three free webinars. Our first Webinar (April 13<sup>th</sup>, 2010) focused on *Geo-Database Updates*. Our upcoming 2010 Webinar will focus on **Emergency Response and Preparedness for Natural Disasters**.

**PLEASE JOIN US** for our second Webinar on the morning of September 14, 2010 at 0930 -1215 PDT.

The presentations will be as follows:

- "*ARkStorm: A Multi-Hazards West Coast Storm Scenario*" by **Dale Cox** of the USGS Multi-Hazards Demonstration Project.
- "*Ground Deformation Effects and Observations from the Haiti Earthquake of January 12, 2010*" by **Donald L Wells** of AMEC Geomatrix and
- "*Living with Earthquakes in California – Are we ready?*" By **Mary Lou Zoback**, Vice President, Risk Management Solutions. (see attached Abstract Summaries)

To encourage interaction and networking between colleagues at different agencies and to cut down on web access, we welcome you to attend the webinar at a satellite meeting location, such as DTSC's office in Cypress or Chatsworth, or the Water Board's office in Oakland.

The final 2010 Webinar in the series is tentatively scheduled for November 9<sup>th</sup>, 2010 and scheduled to focus on: Geographic Information Systems. Are you interested in giving a presentation on any of these future topics? Let Scott Warren know: [SWarren@dtsc.ca.gov](mailto:SWarren@dtsc.ca.gov)

REGISTER NOW at <http://www.waterboards.ca.gov/academy/>

Click on schedule. Choose the September 14<sup>th</sup> GeoSym '10 webinar class and register by entering your account information. You are in! We will post updates on the Water Board Academy webpage on registration, satellite office locations, schedule and program soon. We will forward a finalized schedule and your Webex registration/ access information. Watch your inbox for that important message. We look forward to having you join us.



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Title: *ARkStorm: A Multi-Hazards West Coast Storm Scenario*  
By **Dale Cox** USGS Multi-Hazards Demonstration Project

The United States Geological Survey (USGS) Multi-Hazards Demonstration Project (MHDP), creators of the ShakeOut Earthquake Scenario, are now preparing a new scenario, called ARkStorm, to address massive U.S. West Coast storms analogous to those that devastated California in 1861-62. Storms of this magnitude are projected to become more frequent and furious as a result of climate change. To provide emergency responders, resource managers, and the public a reality check on what is historically possible and help them adapt and prepare, the MHDP has assembled experts from the National Oceanic and Atmospheric Administration (NOAA), USGS, Scripps Institute of Oceanography, the State of California, California Geological Survey, the University of Colorado, the National Center for Atmospheric Research, and many other organizations to design the large, but scientifically plausible, hypothetical scenario storm.

Title: *Ground Deformation Effects and Observations from the Haiti Earthquake of January 12, 2010*,  
By **Donald L Wells**, CEG with AMEC Geomatrix, Oakland, California

The January 12<sup>th</sup> Magnitude 7.0 earthquake in southwestern Hispaniola resulted in widespread damage and destruction in Port-au-Prince and across southwestern Haiti. The National Science Foundation-sponsored Geo-Engineering Extreme Event Reconnaissance (GEER) Association fielded a reconnaissance team of geotechnical engineers and engineering geologists from the U.S. and the Dominican Republic several weeks following the earthquake. The team focused on documenting ground failure and geotechnical/geological aspects of the earthquake, including liquefaction, settlement, lateral spreading, surface fault rupture, coastal uplift, and landsliding. The team also conducted preliminary surveys to assess whether damage and shaking intensity could be correlated to site conditions/site effects.

Title: *Living with Earthquakes in California – Are we ready?*  
By **Mary Lou Zoback** is a seismologist and currently serves as Vice President,  
Earthquake Risk Applications with Risk Management Solutions in Newark, CA

The talk will describe how USGS and CA Geological Survey scientists assess the earthquake threat in California, the impact earthquakes have had on the history and evolution of the Bay Area, and a discussion of the populations and buildings most at risk. The consequences of an expected large earthquake on the Bay Area will be explored with comparisons drawn to the Katrina catastrophe and other recent US natural disasters