

**Michael D. Campbell**

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**Subject:** FW: [GEOSEM] Current Research in Earth Science, Thursday, NOV 12, 2015

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**From:** GEOSEM [<mailto:geosem-bounces@mailman.rice.edu>] **On Behalf Of** Sandra Flechsig  
**Sent:** Tuesday, November 10, 2015 10:17 AM  
**To:** [GEOSEM@mailman.rice.edu](mailto:GEOSEM@mailman.rice.edu)  
**Subject:** [GEOSEM] Current Research in Earth Science, Thursday, NOV 12, 2015

Current Research in Earth Science - Guest Speaker, Michael Manga

**Who:** Professor Michael Manga  
Department of Earth & Planetary Science  
University of California, Berkeley

**What:** Hydrological Responses To Earthquakes (And Why The LUSI Mud Volcano Eruption  
In Indonesia Was Not Caused By An Earthquake)

**When:** Thursday, November 12, 2015, 4:00 p.m.

**Where:** Keith-Wiess Geological Laboratories, Room 100

**Homepage:** <http://www.seismo.berkeley.edu/~manga>

Reception begins at 3:30 in the second floor library.

**Abstract:**

Distant earthquakes are well known to induce a wide range of responses in surface water and groundwater. These responses are often viewed as mere curiosities as their occurrence is limited in space and time. The observed phenomena, however, probe the interaction between hydrogeological processes and mechanical deformation in the shallow crust. Hence they provide insight into the interaction between the water cycle, tectonics, and properties of the crust. In this talk I will review observations and explanations for hydrologic responses to earthquakes. I will end by discussing the LUSI mud volcano eruption in Indonesia, whether it too was caused by an earthquake, and will also predict when the eruption will end.

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