



The Keck Institute for Space Studies
presents a free open lecture ~

The Past, Present and Future of Understanding Earthquakes Using Space Observations

Dr. Andrea Donnellan
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Monday, April 14th, 2014
4:30 PM Refreshments
5:00 PM Lecture

Lees-Kubota Lecture Hall
Guggenheim Building
California Institute of Technology

On January 17, 1994 at 4:31 in the morning, the M 6.7 Northridge earthquake abruptly shook Los Angeles. Though this earthquake was not the "Big One" its 10–20 seconds of shaking killed 57 people and caused over \$20 Billion in damage. The earthquake was the culmination of years of accumulated strain, the last portion of which was measured using survey grade Global Positioning System (GPS) receivers.

Dr. Donnellan will address the contributions of the Southern California Integrated GPS Network (SCIGN), Interferometric Synthetic Aperture Radar (InSAR), an airborne platform called UAVSAR, and modeling tools to understanding earthquakes using space and airborne observations. Future measurements and missions should provide unprecedented details of earthquake fault behavior and interactions, which can be used to address our exposure to these disastrous events.

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No registration is required for this free open lecture.
Seating is limited and is available on a first come, first served basis.