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Free Public Lecture

The 1906 Earthquake: Lessons Learned & Lessons Forgotten

by
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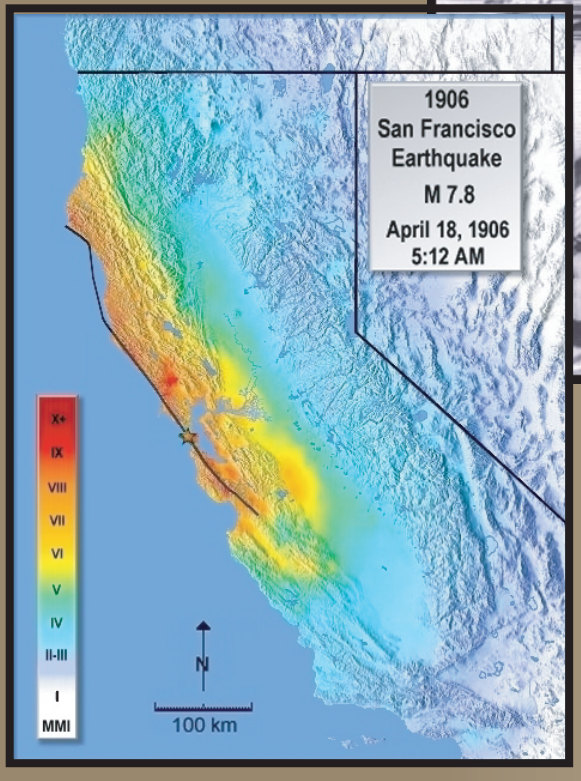

Thursday, September 29, 2005
at 8PM
in Beckman Institute Auditorium

USGS Public Lecture Series
at Caltech

The **1906 Mw7.8 earthquake** on the northern San Andreas Fault marked the **birth of modern earthquake science**. For the first time, the effects and impacts of a major seismic event were systematically investigated and documented in a detailed report. Perhaps the most important scientific result to come out of the 1906 earthquake was the **concept of an earthquake cycle.** As earthquake science evolves, reanalysis of the 1906 earthquake data continues to yield **new insights** about that event and the behavior of large strike-slip faults in general. Looking to the future, a dense array of continuous GPS recorders in N. California, part of **EarthScope's Plate Boundary Observatory**, can search for fault interactions and determine if an acceleration of strain rate precedes the next big earthquake as it may have prior to 1906. Come and find out how we are still learning from **"the big one" that happened 100 years ago!**

Presented by the U.S. Geological Survey, Dept. of the Interior