

Geotechnical

- Quantity and quality of observations provide a unparalleled opportunity to investigate key geotechnical/earth science questions that require basic research.
- Unusual sequence of highly damaging earthquake events in New Zealand and in Japan, and its implications for regions such as Southern California and Pacific NW.
- Unprecedented set of strong motion records and geodetic data for a M9 subduction zone event to inform physics-based models and empirical relations.



Japan and NZ Earthquakes RAPID and Research Needs Workshop
Arlington, VA Feb 9 and 10, 2012



Geotechnical (2)

- Two of the most important events in the last one or two decades to investigate liquefaction triggering and its effects on the built environment:
 - integrated GIS of buildings/lifelines systems and their performance across a broad range of shaking levels, ground displacements, and multiple events; and
 - guides probabilistic assessments.
- Nonlinear seismic site response for downhole arrays to long-duration motions and for close proximity sites for near-fault ground motions.



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