Looking Forward to SCEC5

Palm Springs, California
7-10 September 2014
SCEC Timeline

- 2012: SCEC4 begins
- 2013: Annual Meeting
- 2014: Annual Meeting
- 2015: Annual Meeting
- 2016: Annual Meeting
- 2017: SCEC5 begins

Important Dates:
- 1 Oct 2015: SCEC5 proposal
- 2016: Site review
- 2017: Funding decision?
Ingredients for a good SCEC5 proposal

• Visionary overarching theme
  – SCEC4: “Tracking Earthquake Cascades”

• Strong summary of SCEC successes in research and CEO
  – SCEC4: articulation in terms of 4 SCEC3 priority objectives

• Science plan focused on first-order scientific problems
  – SCEC4: 6 fundamental science questions

• Interdisciplinary research initiatives
  – SCEC4: CVMs, SFSAs

• Effective organizational plan
  – SCEC4: TAGs, EE Implementation Interface, special projects

• CEO plan that builds on SCEC successes
  – SCEC4: ShakeOut, ECA, EPICenters, Roots series, intern programs

• Management plan
  – SCEC4: diversity plan, IT/data management plan

• Metrics and milestones
  – SCEC4: added during negotiation of cooperative agreements
SCEC5 Theme Sessions

1. How do we deal with known unknowns and unknown unknowns?
   - Reducing epistemic uncertainty and characterizing aleatory variability - Biasi

2. What properties of the Earth and the faults within it are important for understanding system behavior?
   - Simulators - Lapusta/Dunham
   - Beyond elasticity - Fialko/Johnson/Hirth/Olsen

3. How can the hazard from simulated earthquakes effectively reduce risk in the real world?
   - Ground motion simulations - Olsen/Graves
   - Infrastructure system risk - Baker

4. What aspects of earthquake behavior are predictable?
   - Science of operational earthquake forecasting - Field
   - "Atectonic" seismicity - Brodsky/Sandwell

5. Here it comes! What just happened? How can SCEC better prepare to respond to future earthquakes?
   - Earthquake early warning research - Cochran
   - Earthquake response - Oskin

6. How can we communicate more effectively what we know and what we don't?
   - Risk communication and new technologies – Benthien
End