

Looking Forward to SCEC5

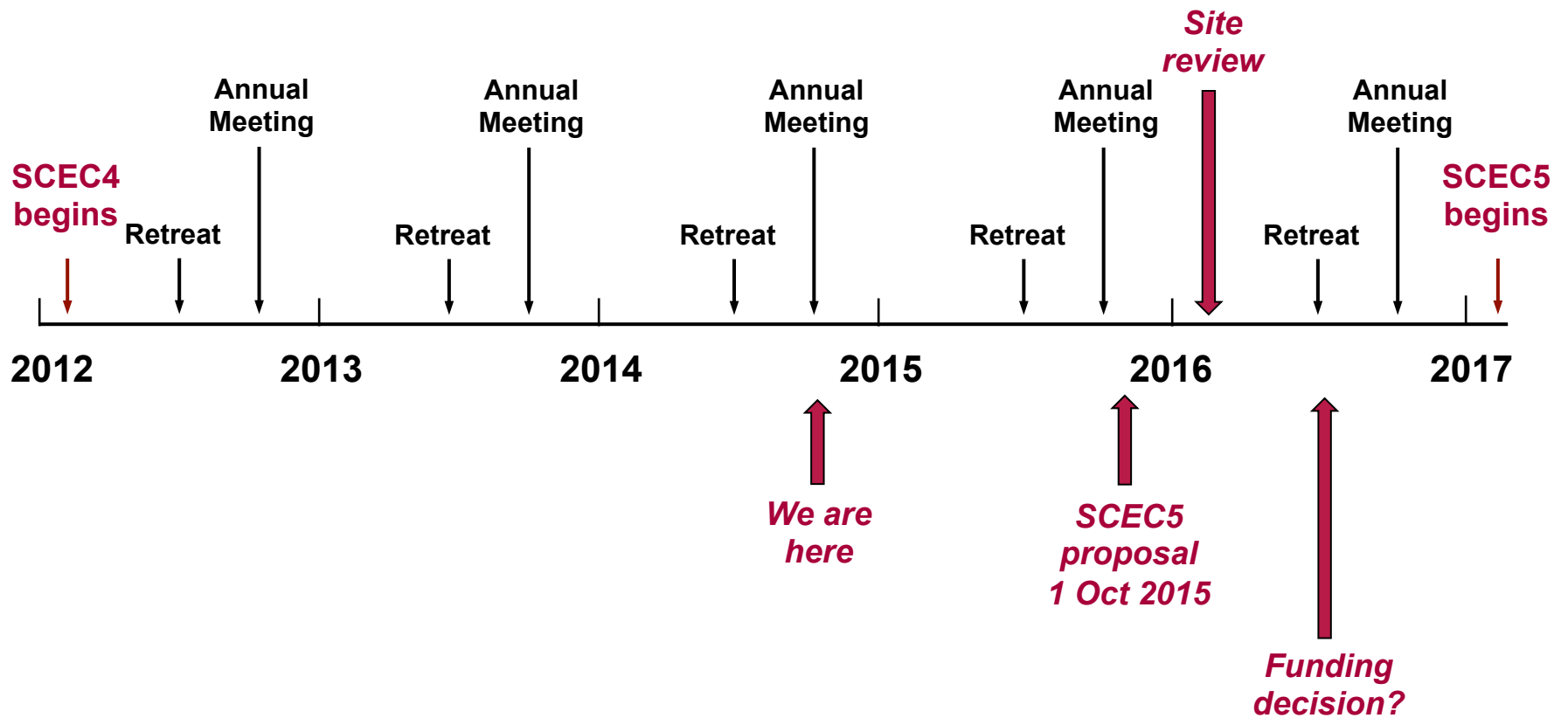
Palm Springs, California

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an NSF+USGS center

SCEC Timeline



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, SFSAAs
- **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
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End