

2012 GMSV TAG Projects

- **“RFP Projects”** – independently proposed by individual PIs in response to general priorities in SCEC Collaboration Plan, but coordinated via *GMSV Coordination Workshop* (April '12)
- **“SI2 Projects”** – jointly proposed by individual PIs as part of large “SI2” SCEC proposal to NSF Office of Cyberinfrastructure, based on outcomes of *GMSV Planning Workshop* (January '11)
- **“Companion Projects”** – conducted by SCEC researchers in coordination with, but not as, “RFP/SI2 projects” (three examples to be presented in this session)

2012 SCEC “RFP” & “SI2” Projects

- “Validation of broadband ground-motion synthetics using earthquake engineering-relevant metrics” – K. Olsen, SDSU
- “US-Japan collaboration on strong ground motion prediction techniques” – P. Somerville et al, URS
- “Validation of elastic spectral correlations and inelastic spectra from ground motion simulations” – J. Baker, Stanford
- “Development of analytical tools for engineering validation of simulated ground motions” – F. Zareian, UCI
- “Validation of simulated ground motions relative to seismic geotechnical engineering demand parameters” – J. Stewart, UCLA
- “A framework for validation of ground motion simulations emphasizing predictive power and use of seismic effective stress analyses of soil deposits” – B. Bradley, Canterbury (NZ)
- “Precariously Balanced Rock (PBR) science for SCEC 4: Validation of ground motion prediction and simulations” – G. Biasi, UNR

Southern California Earthquake Center (SCEC) Ground Motion Simulation Validation (GMSV) Progress Workshop

Presentations on “Companion Projects”

- 2:50-3:05 Engineering Perspective on Simulation Validation & Use of Broadband Platform – J. Baker & L. Burks
- 3:05-3:20 Validation of Broadband Platform Simulations for Historical Events – F. Zareian & S. Rezaeian
- 3:20-3:35 Comparison of CyberShake Hazard Models with NGA Models using Averaging-Based Factorization – F. Wang & T. Jordan