

SCEC 2010 Annual Report

SoSAFE Workshops, Proposal 10198

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The purpose of this grant was to fund meetings and workshops that would lead to submission of a large, 6-8 PI proposal to NSF and a SoSAFE Workshop at the Annual Meeting. As outlined in the proposal, funds were used to support travel for Dr. Scharer to meet with Dr. Rockwell, and from this meeting the outline of a NSF proposal was produced. Given busy travel schedules, the PIs decided to continue the development of the proposal electronically. A first draft was distributed to collaborators at seven additional institutions after the SCEC Annual Meeting, and each PI then contributed to the further development of the science plan and background. **The final proposal, a four year, \$2.46M effort to understand the earthquake behavior of the southern San Andreas and San Jacinto faults, was submitted to NSF Tectonics on January 6, 2011.** PIs included Rockwell, Scharer, Akciz, Arrowsmith, Bemis, Freed, Grant Ludwig, McGill, Onderdonk, and Weldon.

Remaining funds from the grant were used to support the SoSAFE Workshop at the Annual Meeting. As in past years, we had over **140 attendees**, emphasizing the continued interest in SoSAFE activities by the SCEC community. The agenda follows:

SoSAFE Workshop 2010

The primary goal of the Southern San Andreas Fault Evaluation project is to understand the timing of and slip due to earthquakes that occurred on the southern San Andreas and San Jacinto faults over the last 2000 years. This workshop will combine both individual presentations and group discussion. The presentations include summaries of major results of SoSAFE research projects. Discussions are designed to address field- and technology-related challenges in paleoseismology and slip rate studies. All SCEC participants are encouraged to participate.

- 9:15 Advance screening of SoSAFE video produced by Rousseau, Akciz and Hudnut (http://www.youtube.com/watch?v=cXwvrTQn_2Y)
- 09:30 Field and LiDAR measurements of offsets along the Clark fault (*J. Barrett Salisbury*) and the southernmost San Andreas (*Pat Williams*)
- 09:50 Earthquakes and offsets in the Carrizo Plain (*Sinan Akciz*)
- 10:10 Discussion of observations, approaches, uncertainties in field and LiDAR measurements of slip
- 10:30 *Break*
- 10:35 Earthquakes and slip rates from Mystic Lake area, San Jacinto fault (*Nate Onderdonk/Tom Rockwell/Sally McGill*)
- 10:55 Salton Sea: new CHIRP data and normal fault activity (*Graham Kent/Neal Driscoll*)
- 11:15 San Gorgonio Pass update (*Dick Heermance/Doug Yule*)
- 11:30 Earthquake correlations through the Mojave section (*Kate Scharer*)
- 11:40 Discussion: Earthquake response on the SAF. Given experience in recent earthquakes, what technologies should be adopted? Should we assign areas or other coordination given likely limitations to internet access?