Friends of the Pleistocene

Second Announcement - 2008 Pacific Cell Fieldtrip

November 14-16, 2008

Organizers and Leaders: *Tom Rockwell, Mike Oskin, Kim Le, Becky Dorsey, Susanne Janecke, Warren Sharp, Kate Fletcher, Lewis Owen, Caitlin Lippincott, Eldon Gath and George Jefferson*

Focus: *Cross-correlation of Quaternary dating techniques, slip rates, and tectonic models in the western Salton Trough*

Register now at the official 2008 FOP website:
http://www-rohan.sdsu.edu/~fop/

The cost of the trip will be $35, which includes all camping-related fees (porta-potty rentals, other), copious amounts of beer for Thursday, Friday and Saturday evenings, and an all-new 2008 FOP T-shirt (currently under design). We will be dry-camping in the Anza Borrego area, and several of the stops will involve long and (hopefully) hot hikes, so please plan accordingly. A 4x4 high-clearance vehicle is strongly encouraged for Friday's plans. Car-pooling, both to the campground and along the trip, will also be strongly encouraged.

Day 1: Friday - The southern Clark strand of the San Jacinto fault. *Will start off with a long and rigorous hike to examine spectacular offsets along the fault in Rockhouse Canyon, so Friday is not for the weak-kneed. But if you make it, you will be subjected to fault-zone geomorphology that will stick you in the eye. In the afternoon, we will visit the southern Santa Rosa slip rate site and discuss rates based on various dating techniques, dissipation of slip to the south, discussions on lifetime slip-rates versus their latest Quaternary slip rates. Have slip rates varied due to changing fault structure? ...and other controversial topics.*

Day 2: Saturday - Evolution of the San Jacinto Fault. *We will examine the evidence for the Early Quaternary age of the San Jacinto fault zone. Implications of fault arrays in mud-rich basins for paleoseismic studies. Crossing active faults-what is the evidence and how do they do this? Implications of ramps and flats on strike-slip faults. Fault youth and fault maturity: is this a useful model?*

Day 3: Sunday - The Elsinore Fault, Lake Cahuilla history, Fish Creek basin stratigraphy. *Continued discussions on derivation of slip rates based on various dating techniques, including cosmogenic ^{10}Be, U-series, OSL, soils.*

Dating soils via U-series on pedogenic carbonate. Dating Lake Cahuilla shoreline deposits with Optically-stimulated luminescence - how good is OSL in a nearly ideal environment? The implications of clast provenance and fan morphology combined with various dating techniques in estimating slip rates.