

Subsurface geology, basin evolution, tectonic development, and climatic cyclicity of the Santa Clara Valley area

Dr. Richard Stanley and Dr. Russell Graymer
U.S. Geological Survey, Menlo Park

Dr. Rick Stanley and Dr. Russ Graymer will discuss recent work by the U.S. Geological Survey on the geology of the Santa Clara Valley. Rick will begin the presentation with an overview of concealed sedimentary basins and petroleum geology. Russ will follow with a discussion of geologic structure, tectonic evolution, and Quaternary stratigraphy and its relationship to changes in climate. The talks by Rick and Russ will include many ideas that were presented at the 2005 GSA/AAPG meeting in San Jose, and new information gained since then.

Biographies:

Dr. Rick Stanley and Dr. Russ Graymer are geologists at the USGS in Menlo Park.

Dr. Stanley (Rick) was born and raised in the East Bay, and received a Master's in geology from Rice University and a Ph.D. in earth sciences from U.C. Santa Cruz. He worked for Pennzoil in Houston and taught at Fresno State before joining the USGS in 1984. Rick's work with the USGS has included geological field mapping, sedimentary basin analysis, and studies in petroleum geology, mainly in California and Alaska.

Dr. Graymer (Russ) was born Oregon and raised in the East Bay. He received a B.S. in geology from Caltech and a Ph.D. in geology from U.C. Berkeley, working on the terranes of the Sierra Nevada Foothills. A USGS-funded post-doc brought Russ to the geology of the San Francisco Bay region, and eventually to a post at the Survey. Russ' work with USGS has included geologic mapping, regional tectonic synthesis, Quaternary fault mapping, and, more recently, 3-D geologic mapping, in central and northern California.