



NABGG Geological Field Trip 2007 Facilitators

The NABGG is honored to have three distinguished geoscientists facilitate an exciting geology field trip this year. Dr. Stephen Reynolds will lead our expedition to the wide expanses of the Arizona landscape. He along with Drs Arrowsmith and Semken will give our participating members the opportunity to hike, explore and touch the beautiful local geology of Arizona. The trip begins early Saturday morning, September 22, 2007 and is scheduled to end in the early afternoon.

Dr. Stephen J. Reynolds leads an interdisciplinary, field-oriented research program incorporating geologic mapping, structural geology, regional tectonics, geochemistry, thermochronology, ore deposits, and the role of fluids in tectonic processes. A major goal of this research is to investigate how processes involved in the evolution of continents vary with depth. He achieved his Ph.D. in 1982 at the University of Arizona.

Dr. J. Ramón Arrowsmith conducts research in active tectonics, quantitative structural geology and geomorphology. These include paleoseismology, earthquake geology, theoretical studies of faulting and hillslope development, and Quaternary Geology and desert surface processes. Active geographic areas of concentration include the San Andreas Fault system, central Asia, Baja California, and the Afar region of Ethiopia (for the geologic context of paleoanthropologic studies). He also develops geoinformatics tools for cyberinfrastructure in the geosciences. He earned his doctorate in geosciences at Stanford University in 1995.

Dr. Steven Semken is a geoscience education researcher and ethnogeologist who works at the intersection of Earth science with cognitive science and human geography. He studies cultural and affective influences on geoscience learning, with the objective of better engaging the diverse communities of the southwestern United States in the Earth and space sciences. Semken and his students are currently engaged in projects that include the effective leverage of sense of place in geoscience teaching, characterization of ethnogeologic concepts from American Indian and Latino cultures for use in place-based curricula, development and testing of national-scale models for K-12 teacher preparation, and preconceptions research to enhance informal geoscience education for southwestern National Parks and the EarthScope Project. He earned his Ph.D. at Massachusetts Institute of Technology in 1989

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