

## Summary Report

SEPM-NSF Workshop on “*Paleosols and Soil Surface Analog Systems*”,

September 22-25, 2010,

Petrified Forest National Park, Arizona

The Baylor Geology Terrestrial Paleoclimatology Research Group convened a workshop held at Petrified Forest National Park (PEFO) near Holbrook, in northeastern Arizona, from September 22-25, 2010, with a group numbering 42 registrants (27 Ph.D. professionals and 15 students), plus 2 National Park Service geologists. The workshop included 2 days with invited oral presentations scheduled in the morning and with poster displays in the afternoon, along with scheduled afternoon breakout sessions in which group discussions focused on specific paleopedology subjects related to identifying: a) the current state of knowledge, and b) future research opportunities. A 1-day field trip to examine Chinle Formation (Upper Triassic) fluvial and palustrine paleosol-bearing strata in PEFO served as a backdrop that allowed registrants to place workshop presentations and discussions into a real stratigraphic “context”. A “white paper” summarizing the results and findings of the workshop will be disseminated to the paleosol community after final input and review from registrants. An SEPM Special Publication (SP) Volume entitled “*New Frontiers in Paleopedology and Terrestrial Paleoclimatology*” is currently being developed. The following agencies are gratefully acknowledged for their support of the workshop: SEPM, the National Science Foundation (NSF Earth Sciences Directorate, Sedimentary Geology and Paleobiology, and the Geobiology and Low-Temperature Geochemistry programs), ExxonMobil Corporation, Baylor University (including the Department of Geology and the Office of the Vice Provost for Research), and the US National Park Service (Petrified Forest National Park).