Student Advisees - Fred M. Phillips, New Mexico Tech Earth & Environmental Science

**Student Advisees**

*Fred M. Phillips*, Professor of Hydrology

- **Current M.S. Student Advisees**
- **Current Ph.D. Student Advisees**
- **Recent Graduates**

**Current M.S. Student Advisees**

**Elizabeth Bastien**
B.A. Chemistry, 2004, Albion College

*Research:* The salinity budget of the Rio Grande

**Shasta Marrero**
B.S. Chemistry, 2003, University of Wisconsin-Madison
B.S. Geology, 2003, University of Wisconsin-Madison

*Research:* Calibration of the cosmogenic 36Cl production rate in rocks

**Jeremiah “Croaker” Morse**
B.S. Geological Sciences 2003 Albion College

*Research:* Groundwater replenishment to the Peñasco Basin from the Sacramento Mountains

**Andre Ritchie**
B.S. Geology 2007 University of North Carolina-Wilmington

**Current Ph.D Student Advisees**
Marty Frisbee
M.S. Earth Science, 2004, University of North Carolina at Charlotte
B.S. Electrical Engineering, 2004, University of North Carolina at Charlotte
Research: Runoff generation processes in semiarid headwaters catchments

Recent Graduates

Heather (Lacey) Hallett, MS 2006
Quantification and characterization of chloride sources in

Renee Sandvig, MS 2005
Ecohydrological controls on soil-moisture fluxes in arid vadose zones

Naomi Davidson-Rosenau, MS 2004
Groundwater and produced water quality of the Permian Basin, Southeast New

Samuel Earman, PhD 2004
Groundwater recharge through mountain-basin systems of the Southwest: A case

Suzanne Mills, MS 2004
Quantifying salinization of the Rio Grande using environmental tracers

John R. Boulanger, MS 2003
Stable isotope analysis of evaporation and transpiration following a precipitation

Gabrielle Kurth, MS 2003
Cosmogenic nuclide dating of old, high Pluvial shorelines in the Western Great Basin

Alyssa Olson, MS 2002
Carbon-13 in hydrologically-closed systems: Experimentation and modeling

Mitch Plummer, PhD 2002
Paleoclimatic conditions during the last deglaciation inferred from combined an
Michelle Walvoord, PhD 2002. Conceptual model to describe water, vapor and solute transport in deep vadose zones.

John P. Ayarbe, MS 2001. Calibrating a fault scarp diffusion model with cosmogenic 36Cl.


Joseph M. Sterling, MS 2001. Controls on, and modeling of, chloride deposition at the continental scale.

Gina DeRosa, MS 1999. Experimental evidence of hyperfiltration-induced precipitation of heavy metals.


Susan J. Colarullo, PhD 1998. Multiple Scale Characterization of Alluvial Aquifer Heterogeneity.

Claire Chia-Lan Hsu, MS 1998. Trapping of Non-aqueous Phase Liquids at Sand/Shale Interfaces.

James W. Moore, MS 1998. Monitoring infiltration of atmospheric chloride across the...