**DARREL W. SCHMITZ**

**EXPERIENCE:**

Head, Department of Geosciences, Mississippi State University, 2004-Present.
Full Professor of Geology, Mississippi State University, 2000-Present.
Associate Professor of Geology, Mississippi State University, 1995-2000.
Assistant Professor of Geology, Mississippi State University, 1990-1995.
Teaching Assistant and Assistant Lecturer, Texas A&M University, 1988-1990.
Hydrogeologist and Project Manager, BCM Converse, Inc., Jackson, MS, 1986-1988.
Geologist, State of Mississippi, Jackson, MS, 1982-1986: Office of Pollution Control Groundwater Planning Section Coordinator, Office of Geology Groundwater Geology Section, and R & D Center Mineral Resources Research Institute.
Geologist, Exploration Services Inc., Tyler, TX, 1982.
Geologist, North American Exploration, Inc., Kaysville, UT, 1980-1982.

**EDUCATION:**

Ph.D. (Geology), Texas A&M University, 1991
M.S. (Engineering Science-Geology), University of Mississippi, 1985
B.S. (Geology), Mississippi State University, 1980

**SPECIALTIES:**

Darrel W. Schmitz is a geologist with research interests in hydrogeology. His research interests range from the physical (groundwater movement and geologic controls on groundwater movement) and chemical (natural water composition and contaminant transport) aspects of hydrogeology to related environmental areas of hazardous and nonhazardous waste disposal (siting, seismic considerations, biodegradation, and the properties of earth materials). Recent studies have been conducted in Mississippi, other portions of the U.S. and internationally.

**GRADUATE-LEVEL COURSES REGULARLY TAUGHT:**

GG 6153 Engineering Geology
GG 6433 Subsurface Methods
GG 6063 Dev. Of Fossil Fuel Resources
GG 6403 Gulf Coast Stratigraphy
GG 6613 Physical Hydrogeology
GR 8403 Field Methods in Geosciences (Hydrogeology)

**HONORS/AWARDS/OFFICES HELD:**

Darrel W. Schmitz is active in state, regional and national organizations including the Mississippi Academy of Sciences, where he has served as Geology and Geography Division Chairman; and the American Institute of Professional Geologists (AIPG), where he has held several Mississippi Section offices, including President, and Delegate to the national AIPG convention. He is also a member of the Association of Engineering Geologists (AEG), where he is President and where he has received four Presidential Awards; the Geological Society of America (GSA) for which he was Co-Chair of the 1996 Southeastern Section Meeting; and the National Ground Water Association's (NGWA) Association of Groundwater Scientists and Engineers for whom he judged and presented the NGWA's awards at the Forty-Fourth and Forty-Fifth International Science and Engineering Fairs. As a member of the Mississippi Geological Society Dr. Schmitz served as an editor for Volume Forty-two of the Transactions of the Gulf Coast Association of Geological Societies. He was appointed to the first Mississippi Board of Registered Professional Geologists where he served as Board President. He serves on several committees and is a Past-President of the National Association of State Boards of Geology (ASBOG).

**RECENT RESEARCH PROJECTS:**

Feasibility Study for Potential Multi-Use / Multi-Purpose Impoundment in Choctaw County, MS
Functional Assessment of Moist-Soil Habitat Management Impact on Wetland Impoundments Created as Part of an Agricultural Lands Reclamation Plan
Tombigbee National Forest Stream and Spring Baseline Monitoring
Surface Water and Ground Water Monitoring at the Red Hills Mine, Choctaw County, Mississippi
Surface Water and Ground Water Baseline Data-gathering and Monitoring Efforts for a Proposed Lignite Mine in MS.

**RECENT PUBLICATIONS:**


Schmitz, D.W., and May, J.H., 1994, A Predictive Model to Optimize the Collection of Data Needed to Characterize Fluvial Sand Bodies: Technical Report GL-94-10, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS 121p plus Appendicies.

May, J.H. and Schmitz, D.W., 1996, Development of a Predictive Model for Defining Subsurface Sand Bodies, Engineering Geology, Vol.42, pp. 175-186.

Schmitz, D.W. and May, J.H., 1996, Test Applications of a Predictive Model for Delineation of Fluvial Sand Bodies Using Geologically Based Calculations, Engineering Geology, Vol. 42. pp. 187-203.

Schmitz, D.W. and Russell, E.E., 1998, An Earthquake and Environmental Assessment of Faulting in the Demopolis Chalk in Lowndes County Mississippi, Mississippi Geological Society Bulletin, Vol. 46, No. 8 pp. 5-7.

Charlton, J.E. and Schmitz, D.W., 1999, Shallow Groundwater Resources of the Proposed Red Hills Facility and Mine Area, Proceedings of the twenty-ninth Mississippi Water Resources Conference, pp. 130-138.

Crowe, C.R. and Schmitz, D.W., 2001, A Systematic Approach to Determine the Existence or Non-Existence of Atrazine and its Major Degradation Products in Mississippi Groundwater, Proceedings of the thirty-first Mississippi Water Resources Conference, pp. 17-33.

Schmitz, D.W. and Wax, C.L., 2002, A Contrast in Water resource Development and Settlement Patterns: Black Prairie and North Central Hills Regions of Mississippi, Proceedings of the thirty-second Mississippi Water Resources Conference, pp. 176-187.

Schmitz, D.W., Wax, C.L., and Peacock, E.., 2003, Water-resource Controls on Human Habitation in the Black Prairie of North-Central Mississippi, in *Blackland Prairies of the Gulf Coastal Plain: Nature, Culture, and Sustainability*, Peacock, E. and Schauwecker, T., Ed., The University of Alabama Press.

Green, B.H., and Schmitz, D.W., 2004, Technical Note: Soil-Based Controlled Low-Strength Materials, Environmental and Engineering Geoscience, Vol. X, No. 2, pp. 169-174.