

**Graduate Students and Theses  
supervised by Mary P. Anderson**

**19 PhD Dissertations**

**1978 Andrews**, Charles B., The simulation of groundwater temperatures in shallow aquifers. (CEO, retired, S.S. Papadopulos & Assoc.)

**1982 Bradbury**, Kenneth R., Hydrogeologic Relationships between Green Bay of Lake Michigan and onshore Aquifers in Door County, Wisconsin. (Director, Wisc. Geological & Natural History Survey, Madison, WI)

**1983 Yelderman, Jr.**, Joe, The Relationship of Geologic Conditions to Hydrologic Responses in Fluvial Aquifers with Emphasis on Leaky Artesian Conditions and Storage. (Professor, Baylor University, Waco, TX)

**1986 Kenoyer**, Galen J. Groundwater-Lake Dynamics and Chemical Evolution in a Sandy Silicate Aquifer in Northern Wisconsin. [Co-advised with **Carl Bowser**] (Consultant, California)

**1988 Krabbenhoft**, David P., Hydrogeochemical Assessment of a Groundwater-Lake System. [Co-advised with **Carl Bowser, UW-Madison**] (USGS, Middleton, WI)

**1988 Zheng**, Chunmiao, New Solution and Model for Evaluation of Groundwater Pollution Control. (Chair Professor, SUSTech, China)

**1989 Stoertz**, Mary Wilder, A New Method for Mapping Groundwater Recharge Areas and for Zoning Recharge Areas for an Inverse Model. [Co-advised with **Ken Bradbury, WGNHS**]. (Professor, Univ. Ohio at Miami, deceased)

**1992 Webb**, Erik K., Simulating the Spatial Heterogeneity of Sedimentological and Hydrogeological Characteristics for Braided Stream Deposits. (Senior Manager, Geologic Research and Applications, Sandia National Laboratory, NM)

**1993 Hunt**, Randall J., Hydrological and Hydrogeochemical Investigations of Natural and Constructed Wetlands near Wilton, Wisconsin. (USGS, Middleton, WI)

**1993 Rayne**, Todd W., Variability of Hydraulic Conductivity in Sandy Till: The Effects of Scale and Methodology. (Professor, Hamilton College, NY)

**1994 Cheng**, Xiangxue, Numerical Analysis of Groundwater and Lake Systems with Application to the Trout River Basin, Vilas County, Wisconsin. (Petroleum company, TX, retired)

**1994 Brown**, Theresa J., Modeling the Effects of Atmospheric Emissions on Groundwater Composition. (Sandia National Laboratory, NM)

**1997 Riemersma**, Peter E., Geostatistical Characterization of Heterogeneity, Simulation of Advective Transport and Evaluation of Pump-and-treat Systems in Braided Stream Deposits. [Co-advised with **Jean Bahr, UW-Madison**], (Professor, Grand Valley State College, Michigan)

**1999 Muldoon**, Maureen A., Hydrogeologic Characterization of the Silurian Dolomite in Door County, Wisconsin, at Regional and Site-Specific Scales: Comparison of Continuum and Discrete-Fracture Approaches. [Co-advised with **Ken Bradbury, WGNHS**] (WGNHS)

**2002 Lin**, Yu-Feng, Development of a Method for Estimating Groundwater Recharge and Discharge. (Illinois Geological Survey)

**2002 Eaton**, Timothy, Hydrogeology of the Maquoketa Shale, Wisconsin [co-advised with **Ken Bradbury**] (Professor, Queens College, CUNY).

**2003 Dripps**, Weston, The Spatial and Temporal Variability of Groundwater Recharge, Trout Lake Watershed, Vilas County, WI. [co-advised with **Randy Hunt, USGS**] (Professor, Furman Univ., NC).

**2008 Lowry**, Christopher S. Controls on Groundwater Flow in a Peat Dominated Wetland/Stream Complex, Allequash Wetland, Northern Wisconsin. [co-advised with **Randy Hunt**] (Assoc. Professor, University at Buffalo, NY).

**2012 Dunkle**, Kallina. Preferential Flow Paths in Heterogeneous Glacially-Deposited Aquitards [co-advised with **David Hart, WGNHS**] (Assoc. Professor, Austin Peays College, TN)

### 37 M.S. Theses

**Karnauskas**, Robert James, 1977. The Hydrogeology of the Nepco Lake Watershed in Central Wisconsin with a Discussion of Management Implications.

**Eisen**, Craig E., 1977. The Groundwater/Surface Water Interaction in the Menomonee River Watershed, Southeastern Wisconsin.

**Rinaldo-Lee**, Marjory Beach, 1978. Hydrogeology and Computer Model of the Bass Lake Area, St. Croix County, Wisconsin.

**Cichowicz**, Nancy Lee, 1979. Development and Application of a Linked Unsaturated-Saturated Flow Model.

**Munter**, James A., 1979. Groundwater Modeling of Three Lake/Aquifer Systems in Wisconsin.

**Beauheim**, Richard Louis, 1980. The Effects of Dredging on Groundwater-Lake Interactions at Lilly Lake, Wisconsin.

**Pennequin**, Didier Franz-Edgar, 1982. Groundwater Circulation and Groundwater Budget for Lake Wingra, Madison, Wisconsin.

- Rothschild**, Edward R., 1982. Hydrogeology and Contaminant Transport Modeling of the Central Sand Plain, Wisconsin.
- Bickford**, Barbara Jean, 1983. Analysis of Contaminant Movement from a Manure Storage Facility.
- Manser**, Richard J., 1983. An Investigation into the Movement of Aldicarb Residue in Groundwater in the Central Sand Plain of Wisconsin.
- Kimball**, C. Gregory, 1983. The Thermal, Chemical and Physical Effects of the Hydrogeologic System in the Sand Plain of Wisconsin from Water Source Heat Pump Discharge via a Return Well.
- Faustini**, John M., 1985. Delineation of Groundwater Flow Patterns in a Portion of the Central Sand Plain of Wisconsin. [co-advised with **Ken Bradbury, WGNHS**]
- Stoertz**, Mary W., 1985. Evaluation of Groundwater Recharge in the Central Sand Plain of Wisconsin. [co-advised with **Ken Bradbury, WGNHS**]
- Feinstein**, Daniel T., 1985. A Three-Dimensional Model of Flow to the Sandstone Aquifer in Northwestern Wisconsin with Discussion of Contamination Potential.
- Einberger**, Carl M., 1986. Seasonal Changes in Groundwater Inflow to Crystal Lake, Vilas County, Wisconsin.
- Kendy**, Eloise, 1986. Hydrogeology of the Wisconsin River Valley in Marathon County, Wisconsin. [co-advised with **Ken Bradbury, WGNHS**]
- Craig**, Daniel J., 1987. Predictive Models for Assessing the Groundwater Impacts of Land Disposal Wastewater Systems.
- Hunt**, Randall J., 1987. A Survey of the Hydrogeochemistry of the Leopold Memorial Reserve, Baraboo, Wisconsin.
- Nauta**, Robert J., 1987. A Three-Dimensional Groundwater Flow Model of the Silurian Dolomite Aquifer of Door County, Wisconsin.
- Blanchard**, Margaret C., 1988. Investigation of the Shallow Fractured Dolomite Aquifer in Door County, Wisconsin. [co-advised with **Ken Bradbury, WGNHS**]
- Bohling**, Geoffrey C., 1988. A Ground Penetrating Radar Study of Water Table Elevation in a Portion of Wisconsin's Central Sand Plain. [co-advised with **C.R. Bentley, UW-Madison**]
- Gorczyca**, Nancy E., 1988. Effects of Gasoline Contamination on Hydraulic Conductivity and Atterberg Limits.

**Webb**, Erik Karl, 1989. Estimating Groundwater Discharge to Lake Michigan Using a Three-Dimensional Groundwater Model, Along a Portion of the Shoreline from Door County to Port Washington, Wisconsin.

**McGrath**, Robert W., 1991. Investigation of Atrazine Contamination in Bedrock Aquifers, Western Dane County, Wisconsin. [co-advised with **Ken Bradbury, WGNHS**]

**Champion**, Glen S., 1998. Transient and Steady-State Flow Models of a Ground-Water and Lake System: Trout Lake Basin, Northern Wisconsin. [co-advised with **Randy Hunt, USGS**]

**Chung**, Kuo-Po, 1998. Zones of High Hydraulic Conductivity to Represent Lakes in a Groundwater Flow Model.

**Pint**, Christine, 2002. A Groundwater Flow Model of the Trout Lake Basin, Wisconsin: Calibration and Lake Capture Zone Analysis. [co-advised with **Randy Hunt, USGS**]

**Juckem**, Paul, 2003. Spatial Patterns and Temporal Trends in Groundwater Recharge, Upper Coon Creek Watershed, SW, Wisconsin [co-advised with **Randy Hunt, USGS**]

**Lowry**, Christopher S., 2004, Assessment of aquifer storage recovery : defining hydraulic controls on recovery efficiency at three representative sites in Wisconsin.

**John**, Rahul. 2005. Simulating Response Rates and Historical Transience of Surface Water and Groundwater: Trout Lake Basin, Northern Wisconsin. [co-advised with **Randy Hunt, USGS**]

**Masbruch**, Melissa.D. 2005. Delineation of Source Areas and Characterization of Chemical Variability using Isotopes and Major Ion Chemistry, Allequash Basin, Wisconsin. [co-advised with **Randy Hunt, USGS**]

**Cobb**, Michael. 2007. Hydrogeologic characterization of the Ordovician Prairie du Chien Group in west-central Wisconsin. [co-advised with **Ken Bradbury, WGNHS**]

**McLure**, Seann. 2008. Groundwater flow path investigation using stable isotopes of water, dissolved organic carbon, and a groundwater flow and transport model; Allequash Wetland, Vilas County, Wisconsin. [co-advised with **Randy Hunt, USGS**]

**Carter**, Jonathan. 2008. Investigation of perched and regional flow systems in bedrock aquifers, Iowa County, Wisconsin, [co-advised with **Madeline Gotkowicz, WGNHS**]

**Dunkle**, Kallina. 2008. Investigation of perched and regional flow systems in bedrock aquifers, Iowa County, Wisconsin. [co-advised with **David Mickelson, UW-Madison**]

**Muffels**, Christopher. 2009. Application of the LSQR algorithm to the calibration of a regional groundwater flow model; Trout Lake basin, Vilas County, Wisconsin. [co-advised with **Randy Hunt, USGS**]

**Johnson**, Scott. 2011. Groundwater Nutrient Contribution to Dunes Lake, Door County, Wisconsin. [co-advised with **Ken Bradbury, WGNHS**]