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**SENIOR THESIS PROJECTS:**

*Note: In the projects listed below, responsible for the following: consulting students on the appropriate methods for spatial data capture, management, and analysis, producing maps, tables, and graphs, documenting methods and data sources, etc.*

- DiPette, S. 2008. A GIS approach to spatial distribution and density of freshwater mussels (Unionidae) in French Creek based on physical habitat parameters.
- Fischer, A. 2008. Dominance Change in Plant Communities since European Settlement in the Lake Pleasant Watershed.
- Paladino, L. 2008. The effect of the presence of treated hospital waste on the prevalence of total culturable bacteria, coliforms, and antibiotic-resistant *Enterococci* in Northwestern Pennsylvania waterways.
- Podeszek, J. 2008. The Practicality of Biological Corridors in Northwestern Pennsylvania.
- Rutter, J. 2008. Impacts of Agriculture on Levels and Homogeneity of Soil Carbon and Nitrogen Content and Heterogeneity in Crawford County, PA.
- Sheppard, E. 2008. Creating a GIS-Based Suitability Index of Wetland Creation in the French Creek Watershed.
- Straus, E. 2008. The effects of different forest harvesting techniques on terrestrial salamanders in Northwest Pennsylvania.
- Weyers, E. 2008. Effectiveness of Riparian Fencing in Promoting Recovery of Invertebrate Populations.
- Zaso, J. 2008. The Prioritization of Environmental Health Concerns of the French Creek Watershed of Northwestern Pennsylvania.
- Colley, R. 2007. Analysis and Adaptation of Indices of Biotic Integrity (HIBI) for Headwater Streams in Northwestern Pennsylvania.
- Crosser, J. 2007. Applying Ecological Art to Stormwater Mitigation: The Mill Run Community Wetlands.
- Galletta, S. 2007. Using Abiotic and Biotic Variables to Determine Candidates for the Reintroduction of Brook Trout into Northwest Pennsylvania Headwater Tributaries.
- Goetz, E. 2007. Constructing an Effective Fish Index of Biotic Integrity for 2nd and 3rd Order Tributaries in the French Creek Watershed.
- Nagel, L. 2007. The Effects of Different Forest Harvesting Techniques on Small Mammal Populations of Northwestern Pennsylvania.
- Scatena, N. 2007. Water quality assessment of three urban streams located in Northwestern Pennsylvania: The effects of restoration on macroinvertebrate assemblages with an emphasis on long-term monitoring efforts.
- Gaertner, W. 2006. An Aerial Photographic Approach to Analyzing the Relationship Between Public Utilities and Development.
- Perryman, J. 2006. Investigation of Lead Levels and GIS analysis of Connectivity to Ground and Surface Water in Industrial and Residential Roadside Soils in Meadville.
- Schoenborn, B. 2006. Ecotourism in Meadville, Pennsylvania: Interpretive Bicycling and Canoeing Package Tours.

- Warner, E. 2006. Perceptions of Land Development and Conservation in Hampshire County, West Virginia: Implications for the Future.
- Wilmore, S. 2006. A Geographical Information Systems (GIS) Model for Predicting Wetland Area and Location.
- Bradley, C. 2005. A GIS Approach to Paleolimnological Reconstruction of Lake Trophic States to Setting TMDL Targets.
- Haboustak, S. 2005. The Effect of Land-Use on the Input of Phosphorus to Pymatuning Lake By Surrounding Stream Systems: Developing a Regionally Specific Model.
- McDowell, M. 2005. A Conservation Management Plan for the Endangered Mussels, Found in Muddy Creek, Located in the Erie National Wildlife Refuge.
- Nageotte, R. 2005. Investigation of nonpoint-source pollution integrating water quality and GIS analysis in the Gravel Run Watershed in Northwest Pennsylvania.
- Pool, K. 2005. Development in Westminster, Maryland: Smart Growth?
- Fair, L. 2004. Geographic Information Systems (GIS) Analysis of New Wetlands in Crawford County, Pennsylvania.
- Hayes, L. 2004. Alternative Transportation in the National Parks: A Feasibility Study of Assateague Island National Seashore.
- Majewski, D. 2004. Management of Pennsylvania's Venomous Snakes Using Fear as a Motivator to Reduce Interactions between People and Snakes.
- O'Brien, A. 2004. Surficial Map, Subsurface Analysis, and Interpretation of Pleistocene-Age Glacial Deposits in the Cambridge-Age Glacial Deposits in the Cambridge Springs and Blooming Valley 7.5' Quadrangles, Crawford and Erie Counties, Northwest Pennsylvania.
- Slupski, E. 2004. Where Has the Housing Rehabilitation Grant Money Been Spent?... A study of Community Development Block Grants allocated for Housing Rehabilitation during 1990-2000 in Meadville, PA .
- Smith, J. 2004. Fish Community Structure in Dammed and Un-dammed Tributaries of French Creek.
- Cochrane, C. 2003. The Recovery of Western Pennsylvania Streams After Livestock Exclusion.
- Flaherty, M. 2003. The Use of Diffusion Factors in Estimating the Spread of Hemlock Woolly Adelgid.
- Fletcher, A. 2003. The Potential for Adopting Smart Growth Principles in the Greater Meadville Area.
- Ver Hague, J. 2003. Invertebrate & Seed Biomass of Wetland Habitats Managed for Waterfowl.
- Arabia, C. 2002. Ecological and Economic Impacts of the Hemlock Woolly Adelgid on Northwestern Pennsylvania.
- Courchesne, A. 2002. An Assessment of the Feasibility of Eastern Timber Wolf (*Canis lupus lycaon*) Reintroduction to West Virginia Using a Geographic Information System.
- Greene, A. 2002. Competing for Resources: An Assessment of the Impact of Alien Trout Species, *Salmo trutta*, on the Abundance of Native Brook Trout, *Salvelinus fontinalis*, as Determined by the Water Quality of the French Creek Watershed.
- Paich, L. 2002. Ecological Driving Tours for Northwestern Pennsylvania.
- Schwartz, E. 2002. Assessment of the Road-Imposed Edge Effects on the Hardwood Forests of Crawford County, Pennsylvania.
- Casper, E. 2001. Benefits of Riparian Buffer Zones to Agricultural Areas of North-West Pennsylvania.
- Dilleuth, B. 2001. Land Use Characteristics that Correlate Best with Naturally Reproducing Trout Populations in Headwater Streams.

- Henderson, S. 2001. Isolating the Effects of Intact Riparian Zones and Watershed Land Use on Chemical Stream Water Quality Indicators.
- Hoffman, B. 2001. Effects of a Consultant Forester on Timber Harvest Sustainability.
- Jirousek, D. 2001. Pennsylvania's Farmland Preservation Program: One Step To Curb Urban Sprawl. The Feasibility of Establishing an Agricultural Land Preservation Board in Crawford County, Pennsylvania.
- Pegan, J. 2001. Assessing The Biotic Integrity of Cold Headwater Streams in Northwestern Pennsylvania Using a Modified Fish-IBI Approach.
- Shevlin, T. 2001. The Hydrology of a Headwater-Stream Beaver Wetland.
- Wittmer, J. 2001. Awareness and Attitudes about Sewage Overflow Problems in Pittsburgh, PA.