

Robert Todd Reber

Biology, Environmental Science, Sustainable Development Department
101 Randall Environmental Science Bldg.
Taylor University

Education:

Purdue University, West Lafayette, IN.

Master of Science, Forestry and Natural Resources

12/91 GPA: 5.80/6.00

Additional 36 hours of coursework beyond Master's requirements

01/92 to 05/94 GPA: 3.88/4.00

University of Illinois, Champaign / Urbana, IL.

Bachelor of Science, Forestry (Highest Honors, Bronze Tablet)

05/89 GPA: 4.82/5.00

Employment Information:

08/2005 to present: Assistant Professor, Earth and Environmental Science Department, Taylor University, Upland, IN. Responsible for teaching Ecology, Systems Ecology, Field Natural History, Conservation Biology, Geospatial Analysis (GIS) and Principles of Soil Science.

08/1996 to 08/2005: Instructor / Director of Laboratories and Technician, Earth and Environmental Science Department, Taylor University, Upland, IN. Responsible for teaching courses and labs for selected environmental science and biology courses. Responsible for greenhouse and computer lab maintenance.

08/1989 to 05/1994: Graduate Instructor Purdue University, West Lafayette, IN. Conducted laboratory and field research in the areas of forest soils and ecology. Responsible for writing publications for scientific journals.

05/1989 to 08/1989: Field Technician United States Army Corp of Engineers Computer Engineering Research Lab (CERL), Champaign/Urbana, IL. Conducted basic field surveying, sampling of soils, and vegetation analysis at Fort Leonard Wood, MO.

Skills:

I am proficient in the teaching of Ecology, Systems Ecology, Soil Science, Field Natural History, Geospatial Analysis, and Plant Taxonomy. I am adept in the installation of both hardware and software. I am proficient in the utilization of numerous software programs (ArcGIS Pro, statistical programs (Minitab, SAS, SPSS), spreadsheets, spatial, and web-based programs). I also have integrated these technologies into my classes.

Publications:

- Reber R.T. 2018. Review of *Field Natural History of the Black Hills and Badlands*, by Sven Froiland. Great Plains Research – A Journal of Natural and Social Sciences, Vol 28 (2), 223.
- Rothrock, P.E., V.B. Pruitt, R.T. Reber. 2016. Prairie Reconstruction in Indiana: Historical Highlights and Outcomes. Proceedings of the Indiana Academy of Science 125(2):114-125.
- Britton, J.S., P.E. Rothrock, R.T. Reber, R. Dunbar. 2013. Dispersal and Distribution of Biological Control Agents for *Lythrium salicaria* in Indiana. Proceedings of the Indiana Academy of Science. 122:20-26.
- Smit, L., P.E. Rothrock, R.T. Reber, S.A. Namestnik. 2011. The Use of Floristic Quality Assessment as a Tool for Monitoring Wetland Mitigations in Michigan. The Michigan Botanist. 50(4):146-165.
- Rothrock, P. E., R. T. Reber, M. A. Misurac. 2011. Floristic Quality Assessment along an Old-field Chronosequence. Proceedings of the Indiana Academy of Science. 120(1-2):12-17.
- Duffit A., Robert Reber, Andrew Whipple, C. Chauret. 2010. Gene expression during long term survival of *Escherichia coli* O157:H7 in soil and water. International Journal of Microbiology. Vol. 2011, 340506.
- McIndoe J.M., P.E. Rothrock, R.T. Reber, and D.C. Ruch. 2008. Monitoring Tallgrass Restoration Performance Using Floristic Quality Assessment. Proceedings of the Indiana Academy of Science. 117:16-28.
- Reber R.T. 2006. Review of *Sharks in Kansas*, by Michael Everhart. Books and Culture: a Christianity Review. Vol 12 (5).
- Grizzle R., R. T. Reber, P. L. Rothrock and E. Squiers. 2000. Indiana Wetland Rapid Assessment Protocol (InWRAP): User Guidance and Associated Documents (incl. website, and 2 CD ROMs) version 2.4. Indiana Department of Natural Resources, Indianapolis, IN.
- Kaczmarek D. J., K. S. Rodkey, R. T. Reber, and P. E. Pope. 1995. Carbon and nitrogen pools in oak-hickory forests of varying productivity. 10th Central Hardwood Forest Conference. March 5-8, 1995. West Virginia University, Morgantown, WV. USDA Forest Service, GTR NE-197. p. 79-93.
- Reber R. T. and P. E. Pope. 1993. Nitrogen and phosphorus nutrition affects the growth parameters and mycorrhizal symbiosis of northern red oak seedlings. IN (Brissette, J.C., ed.) Proceedings of the Seventh Biennial Southern Silviculture Research Conference. November 17-19, 1992. Mobile, Alabama. USDA Forest Service, GTR SO-93. p. 343-350.

Reber R. T., D. J. Kaczmarek, P. E. Pope, and K. S. Rodkey. 1993. Carbon and nitrogen distribution in oak-hickory forests distributed along a productivity gradient. *IN* (Klass, D. L., ed.) First Biomass Conference of the Americas. Aug. 30-Sept. 2, 1993. Burlington, VT. p. 135-141.

Reber R. T., D. J. Kaczmarek, P. E. Pope and K. Rodkey. 1993. Carbon and nitrogen distribution in upland oak-hickory forests of Indiana. Presented at the First Purdue University Environmental Workshop (abstract).

Presentations and Posters:

Thada, A. R., R. T. Reber. 2019. Interseeding Forbs in a Grass-dominated Prairie Restoration in Northeast Indiana: Year Six Results. Indiana Academy of Science Annual Meeting. Indianapolis. March 30.

Sherman, L. and R.T. Reber. 2018. The Taylor University Arboretum: forest community sampling and structure. Indiana Academy of Science Annual Meeting. Indianapolis. March 24.

Reber, R.T. and M.L. Hecox. 2017. The Taylor University Arboretum Hardwood Reforestation Effort: The Ninth Year Results of Seedling Species Selection, Planting Method, and Deer Herbivory. Indiana Academy of Science Annual Meeting. Indianapolis. March 24-25.

Thada, A. R., R. T. Reber, D. E. Aronson. 2016. Using Grass-specific Herbicide to Aid Forb Interseeding in a Grass-dominated Prairie Restoration: Third-year Results. 24th North American Prairie Conference – From Cemetery Prairies to National Tallgrass Prairies. Illinois State University. July 17-20.

Aronson, D. E., R.T. Reber, A. R. Thada, P.E. Rothrock. 2016. Impacts of Grass-specific Herbicide Application and Burning on the Establishment of Interseeded Forbs in a Tallgrass Prairie Restoration – The Third Growing Season. Indiana Academy of Science Annual Meeting. Indianapolis. March 25-26.

Reber, R.T. and D. Rodman. 2015. The Taylor University Arboretum Hardwood Reforestation Effort: The Seventh Year Results of Seedling Species Selection, Planting Method, and Deer Herbivory. Indiana Academy of Science Annual Meeting. Indianapolis. March 20-21.

Marsee C., A. Thada, R.T. Reber, P.E. Rothrock 2015. Impacts of Grass-specific Herbicide Application and Burning on the Establishment of Interseeded Forbs in a Tallgrass Prairie Restoration – The Second Growing Season. Indiana Academy of Science Annual Meeting. Indianapolis. March 20-21.

- Donovan B., R.T. Reber, P. E. Rothrock. 2014. A Three-Year Study in a Tallgrass Prairie Restoration: The Effects of Mowing on the Productivity of Interseeded Forbs, Prairie and Regional Natives, and Adventives. Indiana Academy of Science Annual Meeting. Indianapolis. March 14-15.
- Benson, D., R.T. Reber, P.E. Rothrock. 2013. A Two-Year Study on the Effects of Mowing in a Tallgrass Prairie Restoration and the productivity and Flowering Response of Big Bluestem (*Andropogon gerardii*). Indiana Academy of Science Annual Meeting. Indianapolis. March 8-9.
- Reber, R. T., P.E. Rothrock, B. Hassen, L. Snyder. 2012. A Local Reforestation Effort: Fourth Year Results of Planting Method, Seedling Species Selection, and Deer Herbivory. Indiana Academy of Science Annual Meeting. Purdue University, West Lafayette, IN. March 9-10.
- Reber, R. T. 2012. Soil Science – What is in the Dirt? Creek Run Environmental Engineering LLC. Environmental Geology Symposium. Biloxi, MS. September 10-11.
- Butterfield B., R. T. Reber, P.E. Rothrock. 2011. The Taylor University Arboretum: Forest Community Structure Determined by Sampling Regimes and Sample Size. Indiana Academy of Science Annual Meeting. Indianapolis. March 4-5.
- Reber R. T., P.E. Rothrock. 2011. A Local Reforestation Effort: Third Year Results of Planting Method, Seedling Species Selection, and Deer Herbivory. Indiana Academy of Science Annual Meeting. Indianapolis. March 4-5.
- Reber R. T., B. Butterfield, P.E. Rothrock. 2009. A Local Reforestation Effort: Second Year Results of Planting Method, Seedling Species Selection, and Seasonality of White-tailed Deer Browse. Indiana Academy of Science Annual Meeting. Indiana University Kokomo. October 22-23.
- Butterfield B., L. Snyder, R. T. Reber, P.E. Rothrock. 2009. A Two-Year Study on the Effects of Initial Disturbance Regimes on Interseeding Forbs in a Tallgrass Prairie Restoration. Indiana Academy of Science Annual Meeting. Indiana University Kokomo. October 22-23.
- Pugh K., R.T. Reber, P.E. Rothrock. 2008. A Local Reforestation Demonstration: The Effects of Planting Method and Seasonality of White-tailed Deer Browse. Indiana Academy of Science Annual Meeting. University of Evansville. October 23-25.
- Snyder L., P.E. Rothrock, R.T. Reber. 2008. Effects of Three Disturbance Regimes on Interseeding Forbs in a Tallgrass Prairie Restoration. Indiana Academy of Science Annual Meeting. University of Evansville. October 23-25.

- Reber R. T. 2008. Indiana - Effects of Ice, Wetlands, and the Development of a Land Ethic. Creek Run Environmental Engineering LLC. Annual Meeting, Salt Lake City, Utah. August 17-19.
- Reber R.T. and P.L. Rothrock 2005. The Current Status of the Indiana Wetland Rapid Assessment Protocol (In-WRAP). Indiana Academy of Science Annual Meeting. Saint Mary-of-the-Woods College. October 6-7.
- Hall E. and R.T. Reber. 2005. The Effects of Nitrogen Fertilization on Root Biomass and Soil Organic Matter in a Tallgrass Prairie Restoration. Indiana Academy of Science Annual Meeting. Saint Mary-of-the-Woods College. October 6-7.
- Zagorski, M., M. Geubert and R.T. Reber. 2002. Land Use and Sediment Loading in the Mississinewa Watershed III: Hydrologic and Sediment Response to Rain Events. Indiana Academy of Science Annual Meeting. Butler University, Indianapolis, Indiana. October 10-11.
- Reber R. T., P. Rothrock and E. R. Squiers. 2000. Indiana Wetland Rapid Assessment Protocol (InWRAP): Testing the Protocol. Indiana Academy of Science Annual Meeting. Indiana University East, Richmond, Indiana. November 2-3.
- Ballard B. and R.T. Reber. 1999. The Assessment of Wetland Quality Using Plant Indicators and Hydrologic Parameters: Results from the Second Field Season. Indiana Academy of Science Annual Meeting. University of Southern Indiana, Evansville, Indiana. November 4-5.
- Hess B. R. and R. T. Reber. 1998. Developing a Rapid Assessment Method for Wetland Quality: Soil and Hydrologic Parameters. Indiana Academy of Science Annual Meeting. Park Tudor School, Indianapolis, Indiana. October 29-30.