

**EDUCATION:**

- 1999: Ph.D. - University of Minnesota - Ecology, Evolution, and Behavior  
Dissertation: A >130,000-Year-Long Pollen Record from Pittsburg Basin, Illinois.  
Advisor: Herb Wright, Ph.D.
- 1993: M. Phil. - University of Cambridge - Quaternary Studies  
Thesis: Devensian late-glacial and Holocene environmental history at Eccles Carr,  
Norfolk, U.K. Advisor: K.D. Bennett, Ph.D.
- 1990: B.A. - Williams College – Biology  
Honors Thesis: Succession after strip cutting. Advisor: Henry Art, Ph.D.

**REFEREED PUBLICATIONS:**

- Teed, R. 2000. "A >130,000-Year-Long Pollen Record from Pittsburg Basin, Illinois."  
*Quaternary Research* **54**: 264-274.
- Allison, T.D., Art, H.W., Cunningham, F.E., and Teed, R. 2003. "Forty-two years of succession following clear-cutting in a northern hardwoods forest in northwestern Massachusetts."  
*Forest Ecology and Management* **182**: 285-301.
- Camill, P., Umbanhowar, C.E., Teed, R., Geiss, C.E., Dvorak, L., Kenning, J., Limmer, J., Walkup, K., Aldinger, J. 2003. "Late Glacial and Holocene Climatic Effects on Fire and Vegetation Dynamics at the Prairie-Forest Ecotone in South-Central Minnesota."  
*Journal of Ecology* **91**: 822-836.
- Teed, R. 2005. "A student-centered project for Earth system history." *Journal of Geoscience Education* **53**: 96-100.
- Umbanhowar, C.E. Jr., Camill, P., Geiss, C., and Teed, R. 2006. Asymmetric vegetation responses to mid-Holocene aridity at the prairie-forest ecotone in south-central Minnesota. *Quaternary Research* 66 (1): 53-66.
- Slattery, W., Teed, R., Cole, T. and Davis, C. 2007. A multi-disciplinary Earth systems course designed for pre-service middle school teachers. *Journal of Geoscience Education* **55**: 218-221.
- Teed, R., Umbanhowar, C.E., Jr., and Camill, P. 2009. Multi-proxy lake sediment records at the northern and southern boundaries of the aspen parkland region of Manitoba, Canada. *The Holocene* 19 (6): 937-948.

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### FUNDED GRANT PROPOSALS:

- Teed, R.E. 5/09. Changes in Geologic Time Understanding in a Class for Pre-service Teachers. West Ohio Center of Excellence for Science and Mathematics Education - \$4,000
- Slattery, W., Teed, R.E., 8/06 Delivering On-Line Professional Development Courses to a New Population of K-12 teachers, Institute for Global Environmental Studies (WSU 666911) - 3 years, \$39,220
- Lunsford, S., Slattery, W., Teed, R., and Ciampaglio, C. 11/05. Partners in Integrated Earth Systems Science (PIES). Ohio Board of Regents - Title II: Improving Teacher Quality Program (WSU 06-232-21) – \$63,806

### RESEARCH INTERESTS:

- Assessment of student learning about science in light of prior knowledge.
- Analysis of past vegetation changes using fossil pollen and charcoal. Areas of current interest include the response of vegetation to climate and to fire frequency.
- Reconstruction of lake history through diatom analysis, especially the response of diatoms to climate change.

### PROFESSIONAL TEACHING & RESEARCH EXPERIENCE:

- Sept. 2006 – present. Assistant Professor. Dept of Earth & Env. Sciences/Dept. of Teacher Education. Wright State University.  
Teaching geology to education majors and in-service teachers. Courses taught include **Concepts in Geology** and **Earth Systems**.
- Sept. 2004 – Aug. 2005. Visiting Assistant Professor. Dept of Geological Sciences. Wright State University.  
Teaching geology to education majors and in-service teachers. Courses taught include **Concepts in Geology**, **MST Project Development**, and **Earth Systems**.
- Sept. 2003-July 2003. Research Associate, Science Education Resource Ctr., Carleton College.  
Contribute to the development of Starting Point, a web resource for instructors of introductory geoscience, environmental science & oceanography.  
Modules developed: Role-Playing, Earth History, Interactive Lectures, Game-Based Learning, Cooperative Learning.
- July 2001 – July 2003. Research Associate, Department of Biology, Carleton College.  
Fossil pollen and diatom analysis of Minnesota and Manitoba lake sediment.
- Jan. 2002 – July 2004 – Adjunct faculty. Dept. of Geology/Graduate School, U. of Minnesota.  
Instructor for **Earth Systems Science for Teachers** (3 times online, once face-to-face)
- Aug. 2000 – May 2001. Lecturer, European Division, U. of Maryland University College.  
Teaching college-level biology, math, and computer science to U.S. Armed Forces personnel in Turkey, Bosnia, and Bahrain. – 53 credit-hours.  
Courses taught include **General Biology** (5 times) & **Human Genetics**

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**HONORS, & AWARDS:**

- 2002 DLESE Fellowship. Online Course for Accessible Web Site Development. - tuition
- 2002 National Coalition for Online Learning Research Fellowship - \$2600
- 2001 Medal for Service with NATO on Operations in Relation to the Former Yugoslavia.
- 1994 Ecology, Evolution, and Behavior Department Fellowship, University of Minnesota.
- 1992 Graduate School Fellowship, University of Minnesota.
- 1990 Dr. Herchel Smith Fellowship. Emmanuel College, Cambridge University.
- 1990 Sigma Xi, Cum Laude. Williams College MA.

**RESEARCH GRANTS:**

- 1998 Ecology, Evolution, and Behavior Department Presentation Fellowship. \$350.
- 1997 National Science Foundation Research Training Research Grant #R58. \$1500.
- 1997 American Quaternary Association Student Travel Grant. \$400.
- 1996 Quaternary Paleoecology Minor Summer Research Award. \$1025.
- 1994 National Science Foundation Research Training Research Grant #R32. \$ 350.

**PROFESSIONAL AFFILIATIONS:**

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|--|---|
| American Quaternary Association          | Sigma Xi                                |
| Nat'l Association of Geoscience Teachers | Ecological Society of America           |
| Earth System Science Education Alliance  | Ohio Earth Science Teachers Association |
| National Science Teachers Association    |   |

**PROFESSIONAL SERVICE:**

- 2008-present WSU Center for Math and Science Education Curriculum Committee
- 2006-present College of Science and Math – Science & Math Education Committee
- 2005-present Reviewer for the Journal of Geoscience Education
- 2004-2005 Acting director of the Masters in Science Teaching – Earth Science program.
- 2004-present WSU Teacher Education Council
- Sept. 2002 Presenter at the Itasca Family Weekend, Lake Itasca, MN.
- 2002-2003 Member - Sigma Delta Epsilon (Graduate Women in Science) Xi Chapter Board.
- 1994-1996 Establishment of a World-Wide-Web for the Limnological Research Center.
- 1992-1994 Member - American Quaternary Association 13<sup>th</sup> Biennial Meeting Local Organizing Committee.

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**RECENT POSTERS AND PRESENTATIONS:**

- Teed, R.E. 2009. "Using Scenarios and Problem Statements to Structure an Earth Systems Course for Pre-Service Teachers." Poster at Earth System Science Education Alliance Summer Conference, Oracle AZ.
- Teed R.E. 2009. "Changes in Geologic-Time Understanding in a Class for Pre-Service Teachers." Presentation at WeEXCEL Regional Spring Conference, Dayton OH.
- Macdonald, J.H., Jr., Hibbard, S.T., Savarese, M., and Teed, R. 2009. "Assessing students' Earth history misconceptions within an introductory geology course." Presentation at Southeastern GSA Regional Mtg., St. Petersburg FL.
- Teed, R.E. 2008. "Team-Based Learning and Open-Book Quizzes: Determining What Works in an Introductory Geoscience Course." Poster at American Geophysical Union, San Francisco CA.
- Teed, R.E., Deuter, L., Kesler, A., Parker, G., Sparks, M. 2008. "Preliminary Results from a Holocene Record from Crystal Lake, Southwestern Ohio." Poster at American Quaternary Association, State College, PA.
- Slattery, W., Teed, R.E., Low, R. 2007. "Three sciences- Two Years- One Solution- Using the Earth System Science Education Alliance On-line Course to build K-12 Teacher Earth System Science Content and Pedagogical Knowledge." Presentation at American Geophysical Union, San Francisco CA.
- Cole, T., Teed, R., Slattery W. 2006. "Alignment of Content and Pedagogy in an Earth Systems Course for Pre-Service Middle School Teachers." Presentation at American Geophysical Union, San Francisco CA.
- Teed, R.E., Slattery, W., Cole, T. 2006. "Earth Systems: A Course Designed to Build Earth Science Content and Pedagogy in Pre-service Middle-School Teachers." Presentation at Geological Society of America, Philadelphia PA.
- Teed, R.E., Slattery, W. 2006. "Using Content Pre- and Post-Testing in a Geoscience Class for Pre-Service Teachers." Presentation at GSA Regional Mtg., Akron OH.
- Teed, R. and Manduca, C. 2004. "Teaching with Games: Online Resources and Examples for Entry-Level Courses" Poster presented at American Geophysical Union, San Francisco CA.
- Savina, M.E. and Teed, R. 2004. "Starting Point: Using Words and Pictures to Capture the Essence of Field Work" Poster presented at Geological Society of America, Denver CO.
- Teed, R., P. Camill, C.E. Umbanhowar, Jr., C. Geiss, B. Murphy, J. Dorr. 2004. "Multi-proxy lake sediment records at the northern and southern boundaries of the aspen parkland region of Manitoba, Canada." Presentation at Ecological Society of America, Portland OR.
- Teed, R. and Manduca, C. 2004. "Using an Earth History Approach: A Web Resource for Educators." Poster presented at Digital Library for Earth System Education, Madison WI.