

Curriculum Vitae  
**Jennifer Bergin Whisner**  
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**EDUCATION:**

University of Tennessee, Knoxville, TN A.B.D. (Structural Geology)  
Researching the 3D structure of the valley and ridge province around the Tennessee salient.

Western Michigan University, Kalamazoo, MI M.S., Geology, 1994 (Hydrogeology)  
*Evaluation of four perfluorinated compounds as tracers in non-aqueous-phase liquids.*

University of Michigan, Ann Arbor, MI B.S., Chemistry, 1991

**HONORS AND AWARDS:**

UTK Earth and Planetary Sciences Department Gordon Award for Professional Promise - 2003  
Treasurer/President/Vice President – Student AAPG Chapter at UTK: 2001/2000/1998  
Tengasco Fellowship, 2001-2002  
Elected to Sigma Gamma Epsilon, Earth Science Honor Society

**TEACHING EXPERIENCE:**

2008-Present **Bloomsburg University of Penn.**, Bloomsburg, PA *Instructor/Asst. Professor*  
Teaching Environmental Geology 100 for predominantly non-science majors.  
Also Geomorphology 265, a sophomore-level course, and Groundwater Hydrology, a capstone course for majors, both with lab component. Lecturing using a variety of media and administering all grades.

Spring 2008 **Pellissippi State Technical Community College**, Knoxville, TN *Instructor*  
Taught lecture and laboratory sections of Geology 1050, Historical Geology, to students with diverse educational objectives. Creating course content, exams, homework assignments and course D2L™ web site. Lecturing using a variety of media and administering all grades.

Fall 2004 **University of Tennessee**, Knoxville, TN *Instructor*  
Taught two sections of Geology 101: The Dynamic Earth, a general education class with enrollment of 80. Created course syllabus, structure, content, exams, homework assignments and course Blackboard™ web site. Lectured using Powerpoint™ and administered all grades.

Spring 2001 **University of Tennessee**, Knoxville, TN *Instructor*  
Taught Geology 103: The Earth's Environment, a general education class with enrollment of 150. Created course syllabus, structure, content, exams, homework assignments and course Blackboard™ web site. Lectured using chalkboard, overheads and slides; administered all grades.

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**TEACHING EXPERIENCE, continued:**

- 1996-1997     **Western Michigan University**, Kalamazoo, MI     *Instructor*  
Taught Geology 100: Earth Studies, an introductory geology class for 100 non-science majors, and Geology 301: Minerals and Rocks, a capstone course for 50 juniors and seniors in geology and related science majors. Formulated course syllabi, structure, content, and exams. Lectured and administered grades for both courses
- Summers     **Indiana University**, Bloomington IN     *Associate Instructor*  
1996&1997     A.I. for G429, a six week geology field camp/capstone experience in southwest Montana. Helped students learn local stratigraphy and structural geology, polish geologic mapping and interpretation skills, and develop into confident field geologists.
- 1992-1994     **Western Michigan University**, Kalamazoo, MI     *Graduate Assistant*  
Laboratory instructor for four semesters of Geology 301: Minerals and Rocks, and Geology 331: Mineralogy.

**RESEARCH/WORK EXPERIENCE:**

- 1997-2007     **University of Tennessee**, Knoxville, TN     *Graduate Research Assistant*  
Worked on 3D model and interpretation of the structural development of the Valley and Ridge province of TN. The model incorporated collected and compiled kinematic data on shortening directions in and around the Tennessee salient as well as a GIS database consolidating surface and subsurface data such as geologic maps, TN state oil and gas well database, and industry seismic line locations.  
*Consultant: Tengasco, Inc.*  
Created cross sections and structure contour and isochore maps for possible hydrocarbon plays in East Tennessee from processed 2D seismic data.  
Constructed 3D model of prospect.  
*Consultant: Coal Creek Mining & Mfg., Co.*  
Analyzed borehole geophysical logs in Wartburg basin, TN. Constructed geologic cross sections, and studied well cuttings, developed contour maps at top and bottom of producing units to assess the potential for overlooked hydrocarbon plays.
- 1994-1995     **Montgomery Watson, Inc.**, Novi, MI     *Associate Hydrogeologist*  
General duties included hydrogeologic fieldwork such as field and analytical data collection, interpretation and reporting, as well as proposal, specification, cost estimate, report preparation, and budget tracking for a variety of projects.  
  
Frequently performed tasks included drilling, logging, and sampling soil borings; installing, developing and sampling monitoring wells; aquifer testing; interpreting site geology and hydrogeology; and preparing technical memoranda and reports.

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Assisted with or responsible for Phase II Environmental Assessments, Baseline Environmental Assessments, site investigations, and Remedial Investigations related to industrial, Michigan Act 307, Ohio VAP, Superfund, and Army National Guard sites.

Prepared remedial investigation report for a CERCLA landfill site. Project tasks included reviewing available historical documents, reducing and interpreting analytical data; interpreting hydrogeologic data; determining the nature and extent of impacts to soil and groundwater; and identifying and evaluating potential contaminant migration pathways, transport mechanisms, and contaminant fate.

1992-1994     **Western Michigan University, Kalamazoo, MI**     *Graduate Assistant:*  
Spent six weeks on a team mapping a structurally complex area in southwest Montana. Collected and interpreted geometric and kinematic data in the southwestern portion of the Helena Salient, MT, as a research assistant on this PRF-funded project.

Designed and carried out laboratory experiments as part of an EPA-sponsored project evaluating the feasibility of using perfluorinated hydrocarbons as tracers in non-aqueous-phase liquids.

**Western Michigan University, Kalamazoo, MI**     *Graduate Assistant:*  
Updated water quality database, evaluated results of new statistical analyses, and produced report on water quality trends for a NPL list landfill in Kalamazoo.

**OTHER EXPERIENCE:**

Fall 2001     Co-organizer of the University of Tennessee's Earth Science Week celebration. Over 500 students from area high schools and middle schools participated in activities emphasizing different aspects of earth science such as remote sensing, hydrogeology, geologic time, minerals, and earthquakes.

1999     Co-designed AAPG Student Chapter-sponsored field trips for introductory geology courses at UTK. Designed stops to reinforce concepts covered in class, and created field guides for students and teaching assistants.

1993-1994     **Western Michigan University, Kalamazoo, MI**  
Graduate Assistant to the Associate Dean for Curriculum and Instruction. Developed tracking system for curriculum changes related to new general education requirements for the College of Arts and Sciences.

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**PUBLICATIONS:**

**Refereed publications:**

- Hatcher, R. D., Jr., Lemiski, P. J., and **Whisner, J. B.**, 2007, Character of rigid boundaries and internal deformation of the southern Appalachian foreland fold-thrust belt: Geological Society of America Special Paper 433, p. 243-276.
- Whisner, J. B.**, and Hatcher, R. D., Jr., 2003, Detachment folds and triangle zones; unexplored hydrocarbon potential along eastern Cumberland Escarpment, Tenn: Oil and Gas Journal, v. 101, p. 38-44.
- McCarville, M. E., **Bergin, J. K.** and Hampton, D. R. 1995, Tracers for immiscible hydrocarbons in groundwater: laboratory experiments, in Tracer Technologies for Hydrological Systems (Proc. of a Boulder Symposium, July 1995) IAHS Publ. no. 229, p. 125-131.

**Reports:**

- Whisner, J. B., and Hatcher, R. D., Jr., 1998, Assessment of hydrocarbon potential of the region immediately surrounding and including property in Anderson, Roane, Morgan, and Campbell Counties, Tennessee: Technical Report Prepared for Coal Creek Mining and Manufacturing Company, 16 p.

**Abstracts:**

- \***Whisner, J. B.**, Hatcher, R. D. Jr, Merschat, A. J., Bultman, J. G., Evenick, J. C., Gatewood, M. P., Stahr, D. W. III, Thigpen, J. R.<sup>1</sup>, Whitmer, N. E., and Wilson, C. G., 2004, 3D reconstruction of Alleghanian structure of the Appalachian foreland fold-thrust belt, NW Georgia to SW Virginia around the Tennessee salient: Geological Society of America Abstracts with Programs, v. 36, p. 139.
- \***Whisner, J. B.**, and Hatcher, R. D., Jr., 2002, Developing A Regional 3D Model of Deformation in The Valley And Ridge Province, East Tennessee, American Association of Petroleum Geologists Annual Meeting, Houston, v. 11, p. A189.
- \***Whisner, J. B.**, and Hatcher, R. D., Jr., 2001, Geologic GIS database to facilitate kinematic analysis of the Valley and Ridge Province, East Tennessee: Geological Society of America Abstracts with Programs (Annual Meeting), v. 33, p. A-176.
- \*Hatcher, R. D., Jr., **Whisner, J. B.**, and McCown, M. W., 2001, 3-D structure beneath the Middle Ordovician Tellico-Sevier synclinorium, SE and NE Tennessee: Geological Society of America Abstracts with Programs (SE Section), v. 33, p. A-18.
- \*Hatcher, R. D., Jr., **Whisner, J. B.**, and Lemiszki, P. J., 2000, Quantitative Facies and Bank-Edge Restoration and Evolution of Carbonate Reservoirs in the Appalachian Foreland Fold-Thrust Belt—An Interactive Petroleum System: American Association of Petroleum Geologists Annual Meeting, New Orleans.
- \*Hatcher, R. D., Jr., **Whisner, J.B.**, 1999, Development of triangle zones in the evolution of foreland fold-thrust belts: American Association of Petroleum Geologists Annual Meeting Expanded Abstracts, p. A56
- \***Whisner, J. B.**, Hatcher, R. D. Jr.; Lemiszki, P. L., Montes, C., 1999, Basement control on structures in the deforming Alleghanian wedge, Southern-Central Appalachians, American Association of Petroleum Geologists Bulletin, v. 83, no. 8, p. 1374-1375.

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- \*Hatcher, R. D., Jr., and **Whisner, J. B.**, 1999, Structural Development and Hydrocarbon Occurrence in the Southern Appalachian Foreland Fold-Thrust Belt: Petroleum Technology Transfer Council Workshop, Pittsburgh.
- Hatcher, R. D., Jr., \*Milici, R. C., \***Whisner, J. B.**, 1998, The Southern-Central Appalachian triangle zone, an unexplored play from Alabama to Pennsylvania, AAPG Eastern Section Abstracts with Programs, p. 1768.
- Hatcher, R. D., Jr., \***Whisner, J. B.**, 1998, Deformation in the core of the Southern Appalachian Triangle zone, Geological Society of America Abstracts with Programs, v. 30, p. 234.
- McCarville, M., \***Bergin, J.**, and Hampton, D., 1995, Tracers for immiscible hydrocarbons in groundwater; laboratory experiments, in *Tracer Technologies for Hydrological Systems*, Ch. Leibundgut, ed., IAHS Publication no. 229, pp. 125-133.
- Bergin, J.**, and \*Whisner, S.C., 1995, Imbricate thrusting and internal strain in the southwest margin of the Helena Salient, Montana, GSA Rocky Mountain Section Abstracts with Programs, v. 27, p. 2.