S. Christopher Whisner

EDUCATION

- 2005 Ph.D., Geology (Structural Geology and Tectonics), University of Tennessee Dissertation: The Middle Ordovician Tellico-Sevier Syncline: A Stratigraphic, Structural, and Paleoseismic Investigation. Advisor: Dr. Robert D. Hatcher, Jr.
- 1998 M. S., Geology (Structural Geology), Western Michigan University Thesis: Application of the Paleomagnetic Fold Test to Determine the Relative Timing of Sill Intrusion and Deformation in the Southwest Helena Salient, Montana. Advisor: Dr. Christopher J. Schmidt.
- 1994 B. S., Geology, Western Michigan University.

ACADEMIC POSITIONS

2014-Present	Associate Professor of Geology, Bloomsburg University of Pennsylvania
2008-2014	Assistant Professor of Geology, Bloomsburg University of Pennsylvania
2008	University of Tennessee-Knoxville, Instructor for Planetary Surface
	Processes (EPS 685).
2005-2008	Post-Doctoral Researcher, University of Tennessee-Knoxville.
2005-2008	Guest Lecturer, University of Tennessee-Knoxville for Physical Geology
	(EPS 101).
2002-2004	University of Tennessee-Knoxville, Graduate Research Assistant.
1997-2003	Graduate Teaching Assistant, University of Tennessee-Knoxville.
1995-1997	Graduate Teaching Assistant Western Michigan University.
1995-1997	Physical Geology Lab Coordinator Western Michigan University.
1995	Graduate Research Assistant. Western Michigan University

CURRENT PROFESSIONAL MEMBERSHIPS:

Geological Society Of America (GSA) Member Since 1997

RESEARCH INTERESTS

Structural Geology/Tectonics Planetary Surface Processes Paleoseismology

TEACHING INTERESTS/COURSES:

EGGS 120 Physical Geology, EGGS 261 Mineralogy EGGS 262 Petrology EGSS 265 Geomorphology EGGS 330 Field Experience in Geosciences EGGS 369 Structural Geology South Dakota School of Mines Summer Geologic Field Camp (Spanish Pyranees)

GRANTS APPLIED FOR

2012- Granting Agency: Bloomsburg University Teaching and Learning Enhancement (TALE) center Title: Broader Horizons Make Better Geologists Amount - \$3000 Status: Funded

2010 -Granting agency: NASA Mars Fundamental Research Program Title: Investigation of Terrestrial Alluvial Fan Surface Compositions: Application To Remote Measurements Of Mars Amount - \$9200 Status: Rejected

<u>AWARDS</u>

2005 - University of Tennessee C.H. Gordon Award for Exceptional Professional Promise
1997 - Western Michigan University Graduate Research and Creative Scholar Award
1993 – Elected to Sigma Gamma Epsilon, Earth Science Honor Society

REFEREED PUBLICATIONS

- Whisner, S.C., Schmidt, C. J., and, Whisner, J. B., 2014, Deformation In The Interior Of The Lombard Thrust Sheet Between The Devils Fence Anticline And The Jefferson Canyon Fault, Journal of Structural Geology.
- Schmidt, C. J., and Whisner, S.C. 2014, Faulting And Folding Along A Lateral Ramp At The Southern Boundary Of The Helena Structural Salient, Southwestern Montana, Journal of Structural Geology.
- Waltemeyer, K, Venn, C., Hallen, C, and **Whisner, S.C.** 2014, The Inorganic Water Chemistry of Alexander Cavern (Mifflin County, PA), Journal of Cave and Karst Studies.
- Lang, N.P., Fedo, C. M., and Whisner, S.C., 2011, Terrestrial analogs in the Mojave Desert of the southwestern United States for volcanic, sedimentary, and tectonic processes on other planets. Geological Society of America Special paper 483.
- Hardgrove, C., Moersch, J.E., and **Whisner, S.C.**, 2010, Thermal imaging of sedimentary features on alluvial fans: Planetary and Space Science, vol. 58, p. 482-508.
- Hardgrove, C., Moersch, J.E., and Whisner, S.C., 2009, Thermal imaging of alluvial fans; a new technique for remote classification of sedimentary features: Earth and Planetary Science Letters, v. 285, p. 124-130.
- Harlan, S.S., Geissman, J.W., Whisner, S.C., and Schmidt, C.J., 2008, Paleomagnetism and geochronology of sills of the Doherty Mountain area, southwestern Montana: Implications for the timing of fold and thrust belt deformation and vertical-axis rotations along the southern margin of the Helena salient: Geological Society of America Bulletin v. 120, p. 1091-1104.
- Whisner, S. C., Hatcher, R. D. Jr., and Munsey, J. W., 2003, Disturbed sediments in the east Tennessee seismic zone: Evidence of large prehistoric earthquakes in east Tennessee?: Southeastern Geology. v. 42, p. 67-82.

PAPERS/POSTERS PRESENTED

- Adams, James M₂, Mclaurin, Brett T., and **Whisner, S. Christopher**, 2017, Variability in deformational style of Appalachian Plateau folds, Sullivan County, Pennsylvania Geological Society of America Abstracts with Programs, v. 49
- Whisner, S.C., 2015, Stop #5: Alleghanian Deformation at the Bear Valley Strip Mine, Shamokin PA.., In: Anthony, R. (Ed.), 80^a Annual Field Conference of Pennsylvania Geologist Guidebook, p. 35-41
- Whisner, S.C., Venn, C. and Hallen, C.P., 2013, A multidisciplinary approach to teaching through residential water well sampling: combining structural geology, aqueous geochemistry and hydrogeology into a cohesive exercise in northeastern Pa..., Geological Society of America Abstracts with Programs, v. 45, p. 69
- Waltemeyer, K, Venn, C., Hallen, C, and Whisner, S.C., 2013, A study of Alexander Caverns (Mifflin County, Pa): water chemistry and structural geology. Geological Society of America Abstracts with Programs, v. 45, p. 69
- Weicht, D. C., Mclaurin, B.T., Shepard, M.K., Whisner, S.C., 2013, Geophysical characterization of the Lightstreet fault, Columbia and Montour counties, Pa., Geological Society of America Abstracts with Programs, v. 45, p. 69
- Hatcher, R.D. Jr., Obermeier, S.F., Vaughn, J.D., Mills, H.H., Whisner, S.C., and Howard, C.W., 2010, Evidence for a lengthy late-Quaternary earthquake history in the east Tennessee seismic zone, Tennessee, Georgia, Alabama, Geological Society of America Abstracts with Programs, v. 42, p. 218.
- Vaughn, J. D., Obermeier, S.F, Hatcher, R.D., Howard, C.W., Mills, H.H., and Whisner, S.C., 2010, Evidence for one or more major late-quaternary earthquakes and surface faulting in the East Tennessee seismic zone: Seismological Research Letters, v.81 no. 2, p. 323.
- Snyder, C.D. and Whisner, S.C., 2010, The effects of jointing in the nose of an anticline near Mountain Top, Luzerne County, Pennsylvania: Geological Society of America Abstracts with Programs, v. 34, p. 42.
- Hardgrove, C., Whisner, S.C., Williams, R.M.E., Moersch, J. E., Chojnacki, M., and Rogers, D., 2010, Remote thermophysical observations of terrestrial inverted relief features, Lunar and Planetary Sciences Conference XLI, Houston, TX.
- Hardgrove, C., Moersch, J.E., **Whisner, S.C.**, 2009, Identification of sedimentary processes on alluvial fans using aerial thermal images and ground truth, Lunar and Planetary Sciences Conference XL, Houston, TX.
- Moersch J. E., Hardgrove C. J., and Whisner S. C.,2008, <u>Thermophysical Signatures of</u> <u>Sedimentary Processes on Alluvial Fans</u>, GSA Joint Annual Meeting, Abstract 268-4.
- Lang, N.P., Fedo, C.M., and **Whisner, S.C.**, 2008, A geologic processes course for planetary scientists, Geological Society of America Abstracts with Programs, v. 33, p. 59.
- Moersch, J.E., Whisner, S.C., Hardgrove, C., 2008. Thermal imaging of alluvial fans: a new technique for remote classification of sedimentary processes, Eos Transactions AGU.
- Lineberger, H., Fuerst, S., **Whisner, S.C.**, and Moersch, J.E., 2008, The Mars Outreach for North Carolina Students MONS); High School Students with "Hands On" Mars Research. Lunar and Planetary Sciences Conference XXXIX, Houston, TX.
- C. J. Hardgrove, J. E. Moersch, and S.C. Whisner, (2008) <u>Detection and Mapping of</u> <u>Sedimentary Features on Alluvial Fans Using High-Resolution Overhead Thermal</u> <u>Imaging</u>, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract H33A-0985
- Moersch, J.E., Whisner, S.C., and Hardgrove, C., 2007, Thermophysical characterization of terrestrial analogs for Martian sedimentary features: Seventh International Conference on Mars.
- Whisner, S.C. and Moersch, J.E., 2007, Field observations of thermoclinometric effects in Dumont Dunes, California: Lunar and Planetary Sciences Conference XXXVIII, Houston, TX.
- Evenick, J.C., Hatcher, R.D. Jr., and **Whisner, S.C.**, 2007, What is the origin of the Middle-Ordovician Sevier Basin, Southern Appalachians?: Geological Society of America Abstracts with Programs, v. 39, p. 78.

Dept. of Environmental, Geographical and Geological Sciences, 2018 Moersch, J.E., Whisner, S.C., Hardgrove, C., 2005, Thermophysical characterization of

- terrestrial alluvial fans, with applications to Mars: Eos Transactions AGU, v. 86, p. 52.
- Whisner, S.C. and Moersch, J.E., 2005, The use of ASTER TIR data to distinguish between different lithologic units in the southern Appalachians and the relationship to problems of distinguishing among lithologies on Mars: Lunar and Planetary Sciences Conference XXXVI, Houston, TX.
- Harlan, S.S., Geissman, J.W., Whisner, S.C., and Schmidt, C.J., 2005, Paleomagnetism and "Ar/"Ar dating of folded sills in the Lombard thrust sheet, south central Montana: Implications for the timing and fold and thrust belt deformation and vertical axis rotations along the southern margin of the Helena Salient: EarthScope in the Rocky Mountains Meeting.
- Hatcher, R.D. Jr., Whisner, S.C., Bream, B.R., and Miller, C.F., 2004, Sediments derived from mountain chains do not always land in foredeeps: Southern Appalachian Sevier-Blountian basin dynamics: Geological Society of America Abstracts with Programs, v. 33, p. 59.
- Whitmer, N.E., Hatcher, R.D. Jr., Whisner, S.C., Whisner, J.B., Thigpen, J.R., and Bultman, J.G., 2003, Middle Ordovician Clastic Wedges in East Tennessee: A New Look at an Old Basin: American Association of Petroleum Geologists (Eastern Section) Pittsburgh, PA.
- Chapman, M.C., Munsey, J.W., **Whisner, S.C.**, and Whisner, J.B., 2002, The eastern Tennessee seismic zone; small earthquakes illuminating major basement faults?: Geological Society of America Abstracts with Programs, v. 34, p. 31.
- Chapman, M.C., Munsey, J.W., Powell, C.A. **Whisner, S.C.**, and Whisner, J. B., 2002, The eastern Tennessee seismic zone; summary after 20 years of network monitoring: Seismological Research Letters, v. 73, p. 245.
- Whisner, S.C., Hatcher, R.D. Jr., and Munsey, J.W., 2001, The possible link between east-west trending faults in the valley and ridge province of eastern Tennessee and the Gray fossil site: Geological Society of America Abstracts with Programs, v. 33, p. 59.
- Mills, H.H., and Whisner, S.C., 2000, Old fan deposits on the northwestern flanks of Chilhowee Mountain, southeastern Tennessee; indicators of an inactive landscape?: American Quaternary Association Programs and Abstracts, v. 16, p. 84.
- Schmidt, C.J., Whisner, S.C., Harlan, S.S., Geissman, J.W., 2000, Paleomagnetic and geochronologic results bearing on the timing of fold and thrust belt deformation in the Lombard thrust sheet along the southern margin of the Helena Salient, south central Montana: Geological Society of America Abstracts with Programs, v. 32, p. 82.
- Hatcher, R.D. Jr., Whisner, S.C., Munsey, J.W., and Moore, H., 2000, Fractures, dewatering, and carbonate blocks in a lake deposit at Gray, northeastern Tennessee; a window into Southeastern U.S. Pleistocene (?) tectonics and possible seismicity: Geological Society of America Abstracts with Programs v. 32, p. 82.
- Whisner, S.C., Hatcher, R.D. Jr., Munsey, J.W., and Mills, H.H., 2000, Disturbed Quaternary terrace deposits in eastern Tennessee; smoking gun for old earthquakes, hillslope creep, or evidence for Megatherium trip and fall?: Geological Society of America Abstracts with Programs, v. 32, p. 28.
- Bergin, J.K. and **Whisner, S.C.**, 1995, Imbricate thrusting and internal strain near the southwest margin of the Helena salient, Montana. Geological Society of America Abstracts with Programs, v. 27, p. 2-3.

DEPARTMENT SERVICE:	
2015-2016	Chairperson of Search committee for EGGS Tenure track Econ
	Geol/Mineralogist position (Successful)
2013-2014	EGGS Chairperson of Search committee for Tenure track Soils position
	(Successful)
2012-2013	EGGS Search Committee for Sabbatical Replacement of Dr. Cynthia
	Venn
	EGGS tenure track Cartography position search committee
	Geography and Geosciences Tenure track position search committee
2011-present	Geography and Geosciences Sabbatical Committee
2009-present	Geosciences Curriculum Committee
2009-present	Geography and Geosciences Budget Committee
2009-present	Geography and Geosciences Outcomes Assessment Committee

UNIVERSITY SERVICE:

2014-2017 COST Curriculum Committee,

2011-Present COST Science Iditarod Committee

COMMUNITY SERVICE

2015-2017 Teaching Volunteer for Columbia County Water Education Day

- 2015 Helped Boy Scout Troop 25 earn their geology badges
- 2013 BUGS Geology Bootcamp organizer and participant
- 2012 BUGS Geology Bootcamp organizer and participant
- 2012 Helped Boy Scout Troop 25 earn their geology badges
- 2011 Invited speaker at Greenwood Friends School, Millville, PA, Origin of the Planets
- 2011 BUGS Geology Bootcamp organizer and participant
- 2010 Helped Boy Scout Troop 17 earn their geology badges
- 2010 BUGS Geology Bootcamp organizer and participant
- 2009 BUGS Geology Bootcamp organizer and participant
- 2009 Rock and Mineral Identification and Organization Greenwood Friends School
- 2008 Invited speaker at Greenwood Friends School, Millville, PA, Fossil Preservation.
- 2007-2013 Part of the MONS (Mars Outreach for North Carolina Students) with Durham Academy, Durham, North Carolina
- 2008 Invited Speaker Bearden Middle School, Knoxville, TN, Remote Sensing and Mars.
- 2007-2008 Co-Chair Knoxville Montessori Rockin' Fall Festival 2007, Earth science themed fair for pre-school through elementary
- 2006-2007 Invited speaker, Knoxville Montessori Geology and Culture of Egypt for pre-school through elementary children
- 1999, 2000 Oak Ridge Institute for Continued Learning (ORICL) field trip assistant