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**Support EGGS:**
[https://giving.bloomu.edu/eggs](https://giving.bloomu.edu/eggs)
A Note from the Chair

Departing Faculty
We were sad to say goodbye to Dr. Danqing (Dana) Xiao, our cartographer, and Dr. Sandra Kehoe-Forutan, our planner. Dr. Xiao left to be closer to family in the New York City area and pursue other opportunities. Dr. Kehoe-Forutan retired after a long and productive career here. She was a pillar of the department, and her impact on our students, the department, and the university was enormous. She and her husband, Nasser, have relocated to sunny Southern California. Both will be missed.

New Faculty
In August, we welcomed two new faculty members: Dr. Rebecca Bourgault and Dr. Alan Gishlick. Dr. Bourgault was hired in August to be our new soil scientist. She came to us from Delaware Valley University and has specialties in soils and wetlands. She immediately took over our developing Soil Judging Team and took them to the Regional Soil Judging Competition this past fall. She has extensive experience as a soil consultant and we plan to use her expertise to develop a Soil Science Minor to complement our recent (and popular) Hydrology Minor.

Dr. Gishlick was a temporary faculty with us for five years and was converted to the tenure-track in August. He is a paleontologist and, in addition to teaching that class for the past five years, has an extensive background in museum science and curation. He has reorganized our fossil collection and taught a new course in Museum Science the past three years. We expect to be turning that expertise into a new interdisciplinary minor for interested students in EGGS, Biology, and Anthropology/Archaeology.

Soil Judging 2019

![Soil Judging 2019](image)


Field Geology Course *(EGGS 330)*
Over a three-week period this past summer, students in our introductory *Field Geology* course (EGGS 330) were led by Drs. Cindy Venn, John Hintz, and Jennifer Whisner to a variety of landscapes in Southern California region, including Death Valley and Catalina Island. As usual, the landscapes were spectacular and our cover gives you a taste!
**Honors Reception**
The department held our first Spring Honors reception at the new Greenly Center to honor the recipients of our scholarships and outstanding student awards. We also took this time to honor Dr. Kehoe-Forutan prior to her last graduation ceremony.

Lto R: Meg Ronan, Zach Hartman, Anna Ellis, Autumn Helfrich, Lauren Barrett, Kyle Argenziano, Tyler Ulmer, Sean Leshko, Dr. Kehoe-Forutan. Not shown: Kate Mather-Shingara and Sabrina Savidge

**Internships (EGGS 497/498)**
We had another fantastic year for our Geography and Planning majors, with 25 full-time interns placed all around the region in the summer of 2019.

Please drop by if you’re in the area and say hello, or keep up with us on our

Homepage ([www.bloomu.edu/eggs](http://www.bloomu.edu/eggs)),
Facebook ([www.facebook.com/BUEGGSalumni](http://www.facebook.com/BUEGGSalumni)), or
Foundation page ([itspersonal.bloomu.edu/eggs](http://itspersonal.bloomu.edu/eggs)).
EGGS Honors Reception
Friday, May 10, 2019, at the Greenly Center, Bloomsburg, PA

Awards
Outstanding Senior in Environmental Geoscience
Lauren Barrett

Outstanding Senior in Professional Geology
Autumn Helfrich

Gamma Theta Upsilon
New Inductees to the International Honor Society in Geography
Meg Ronan
Tyler Ulmer

GIS Tutor
Geography and Planning Major/Spatial Analysis and GIS Minor/GIS Tutor
Anna Ellis

Scholarships
Braun Geology Field Camp Scholarship
Katherine Mather-Shingara
Sabrina Savidge

Daniel J. Tearpock Scholarship
Sean Leshko

Joshua D. Sonntag ’14 & Chelci A. Kravabloski ’16 EGGS Scholarship
Kyle Argenziano

Professor Brian & Marty Johnson Geography/Planning Scholarship
Kyle Argenziano

Tearpock Geoscience Fund
Zachary Hartman
Patricia J. Beyer
Associate Professor of EGGS

Scholarly Interests
Fluvial Geomorphology, Surface Hydrology, Student Success and Retention

Education
Arizona State University, Tempe, AZ, Ph.D., Geography 1997
University of Illinois, Urbana-Champaign, IL, M.S. Geography 1992
Valparaiso University, Valparaiso, IN, B.A. Geography/English 1990

2019 Presentations
None

2019 Teaching
Spring 2019: EGGS 107 Natural Disasters, 3 sections (35 students each)
            EGGS 301 Water Resources Management, 1 section (26 students)

            Summer 2019: EGGS 107 Natural Disasters, 1 section online (30 students)

            Fall 2019: EGGS 101 Introduction to Physical Geography, 3 sections (40 students each)
                        EGGS 271 Fundamentals of Hydrology 1 section (26 students)

            Winter 2019: EGGS 107 Natural Disasters, 1 section online (30 students)

2019 Service Activities
Spring 2019: EGGS Department Committees: Observation & Evaluation

Fall 2019: COST Curriculum Committee Chairperson
         EGGS Department Committees: Observation & Evaluation
         Secretary for Middle States Division of the Association of American Geographers
Scholarly Interests
Research interests include waste management and recycling, spatial dynamics of the financial services sector, and rural economic development programs and policies. Always rewarding is my work with student majors working on a wide variety of projects in the Geography and Planning Seminar (EGGS 498)—the course that students take in conjunction with their summer internships (please see picture above of Summer 2019 interns).

Education

Recent Presentations and Publications

2019 Teaching
Spring: Environmental Issues and Choices (EGGS 105)
        Recreation, Tourism, and Sport (EGGS 315)
        Honors Environmental Issues and Choices (HONORS 105)
Fall:   Environmental Issues and Choices (EGGS 105)
        Economic Geography (EGGS 221)
        EGGS University Seminar (INTSTUDY 100)

2019 Service Activities
Executive Board Vice President, BU Protestant Campus Ministries
Advisor, Gamma Theta Upsilon (GTU) Geography Honor Society
BU Honors Program Advisory Committee (HAC)
Scholarly Interests

- I am interested in studying naturally occurring elements (trace metals and rare earths) to track water movement in the vadose zone.
- I am interested in studying legacy lead pollution in central PA – sources, forms, and bioreactivity.
- I am interested in studying legacy phosphorus pollution from eroding streambanks in central PA – sources, forms, and eutrophication potential.

Education

2014  Ph.D., Plant and Soil Science, University of Vermont
2008  M.S., Natural Resource Sciences, University of Maryland, College Park
2005  B.S., Environmental Science and Policy, University of Maryland, College Park

Recent Publications (2015-2019)


2019 Teaching

Fall: Introduction to Environmental Science (100) – 2 sections
Advanced Soil Science (413) – with lab
Soil Morphology Practicum (313)

2019 Scholarship Activities

- I reviewed three manuscripts for Catena (an international journal of soil science).
- I am serving as co-PI with Dan McCurry (Chemistry Dept.) on a grant proposal for approximately $450,000 to the National Science Foundation – Major Research Instrumentation program entitled “Acquisition of a Field Emission Scanning Electron Microscope.” Others from EGGs, Chemistry, and Biology departments are collaborating.
- I am a co-author of a new publication in Soil Science Society of America Journal (see below)
- I was a fellow in the Teaching Excellence Academy at TALE, Jan 2020.
- I have developed an Independent Study for a student for Spring 2020 in Wetland Delineation.

2019 Service Activities

- As coach of the BU Soil Judging Team, I took the students to Easton, Maryland, for the Northeast Regional Soil Judging Contest.
- EGGs representative to University Forum, 2019-2020.
- Professional Member, Pennsylvania Association of Professional Soil Scientists.
- I was invited to Southern Columbia Area School District 6th grade science class to serve on an expert panel to question and judge soil erosion project presentations.
- I have my own consulting company and I am pursuing certification this year as a PA Sewage Enforcement Officer.
Jeff Brunskill, Ph.D.
Associate Professor

Scholarly Interests
My research interests focus on the public dissemination of meteorological information, spatial cognition, applications of geographic information system (GIS) technologies and geographic education. Over the last year I collaborated with students and faculty in the computer science department at Bloomsburg University to develop a web-based portal for managing tenure documentation, and an application to track the progression of the sun across the daytime sky. I am currently collaborating with a private software development company to develop a commercial application of a weather visualization software program that incorporates time-lapse videos of local weather phenomena. I also worked with BU faculty and undergraduate research assistants on several GIS projects including a viewshed analysis of natural gas towers in Lycoming County, and an analysis of how the natural gas industry uses GIS to routing natural gas pipelines. In addition, I continued the design of a new upper-level applied course on GIS (EGGS 390 – Special Topics / GIS III).

Education
• University at Buffalo, Buffalo NY, Ph.D., Geography, 2005
• University at Buffalo, Buffalo NY, M.A., Geography, 2001
• North Carolina State University, Raleigh NC, B.S., Meteorology, 1999

Publications / Grants / Conference Presentations

Teaching
• EGGS 160 – Geography and Information Systems
• EGGS 242 – Map Use and Analysis
• EGGS 255 – Meteorology
• EGGS 360 – Principles of GIS I
• EGGS 361 – Principles of GIS II
• EGGS 390 – Special Topics / Principles of GIS III
• Advisees: 8 majors; 23 minors

Recent Service Activities / Committees
• Re-Developed EGGS 160 (Geography and Information Systems) as a General Education course for the EGGS Department, and developed EGGS 390 (Special Topics / GIS III)
• Committees: EGGS Search Committee; EGGS Promotion Committee; EGGS Geography Curriculum Committee; Gamma Theta Upsilon (GTU) Geography Honors Society Advisor; University-wide Sabbatical Committee (Chair)
Dr. Tina Delahunty  
Assistant Professor

Scholarly Interests
Biogeography, Land Use Land Cover Change, Recreation Planning, GIS, Remote Sensing

Education
Ph.D. University of Florida, Geography

Publications 2016-2018


Presentations 2016-2018


Research Proposals 2016-2018

Teaching 2019
Spring  Principles of Geographic Information Systems  Introduction to Physical Geography

Fall  Remote Sensing of the Earth  Principles of Geographic Information Systems  Introduction to Physical Geography
Dr. Benjamin Franek
Assistant Professor

Scholarly Interests
I have several scholarly interests. One regards watershed management – I have refined and developed practices that watershed organization members can use to assess the integrity of stream systems via efficient visual techniques. This work has led to identification of degraded local stream reaches and, ultimately, to work toward their naturalization and restoration. Another interest concerns eliciting study behaviors of students that lead to success in the classroom. This work has led to development of techniques that instructors can use to help students recognize potential troubles before they happen. One more interest I have involves research at the eco-hydrological interface. I continue to work on a project which is establishing reptile usage of transformed/aged infrastructure near fluvial systems. With all of my scholarly interests, students have and will continue to be integral to success.

Education
University of Connecticut, Storrs, CT, Ph.D., Geography, 2013.
  Thesis: “The incorporation of renewable energy resources at the local and regional levels: A case study of Washington County, Pennsylvania municipalities.”

2017-2019 Academic Production
(*Bloomsburg University undergraduate co-author/contributor)
Franek, B. L. (2018). Researching Wood Turtles (Glyptemys insculpta) on the Pine Creek Rail Trail. Susquehanna Heartland Coalition For Environmental Studies.


*Ruziecki, M. R., & Franek, B. L. (2017). Developing a technique to efficiently establish Wood Turtle (Glyptemys insculpta) usage of the Pine Creek Rail Trail. 7th Annual Susquehanna Valley Undergraduate Research Symposium. Bloomsburg.


**Peer Reviewer**

Journal: Journal of the Middle States Division American Association of Geographers.


**Grants/Funding**


Franek, B. L., & Mock, L. (2017). *Course logistics, EGGS 211: Regional Geography Abroad.* College of Science and Technology, Dean’s Office Faculty Support: $1,000.


Franek, B. L., & Mock, L. (2016). *Development of a new course, EGGS 211: Regional Geography Abroad.* College of Science and Technology, Dean’s Office Faculty Support: $1,000.
**Teaching (2019)**
Spring: Independent Study in EGGS (EGGS 475)
   - Surface Hydrology (EGGS 370)
   - Introduction to Environmental Science (EGGS 100)
Summer: Internship in Planning (EGGS 497)
   - Internship in EGGS (EGGS 496)
   - Regional Geography Abroad: Norway (EGGS 211)
Fall: Independent Study in EGGS (EGGS 475)
   - Environmental Conservation (EGGS 358)
   - Water Resources Management (EGGS 301)
   - Introduction to Environmental Science (EGGS 100)

**Selected Service Activities**
2019: Bloomsburg University 2nd Annual Conference of the Academy (**Invited Speaker**).
2017-2018: Virtual Ambassador Program with the Royal Norwegian Embassy, Washington D.C. (**Co-Host**).
2018-2020: Bloomsburg University, General Education Committee (GEC) (**Committee Member**).
2018-2020: Bloomsburg University Environmental Sciences Learning Community (**Co-Director**).
2018 “Good Water” at Sullivan County, PA: Good Water Good Coffee Event (**Invited Presenter**).
2018 “Native Plants for Stream Naturalization,” with Mary Jo R. Gibson (Penn State Extension Master Gardener), Berwick Public Library, Berwick, PA (**Presenter**).
2018: Bloomsburg University Majors, Minors & Career Pathway Options Fair (**Attendee**).
2017 Climate and Weather: to Bloomsburg, PA Girl Scout Troop 30202 (**Invited Presenter**).
2017: Bloomsburg University Majors, Minors & Career Pathway Options Fair (**Participant**).
2009-Present: Briar Creek Association for Watershed Solutions (**President [past Secretary]**).
2015-2018: An exploration of EGGS materials for student interpreters, for Suzi Glowaski, Students with Disabilities Center. (**Invited presenter**).
2016-Present: Columbia County Water Education Day (**Volunteer**).
2013-Present: Bloomsburg University: Science Iditarod for regional high schools (**Quiz Master**).
2011-Present: Regional watershed groups annual meeting (**Organizer/presenter**).
**Scholarly Interests**
My interests surround the evolution of biological form, function and behavior as elucidated by the fossil record of life. This has involved research on both vertebrate and invertebrate organisms in both the paleontological and neontological. I am also interested in the evolution of fossil ecosystems in the Triassic Chinle formation, southwestern United States.

**Education**
2002 Ph.D., Geology and Geophysics (Paleontology), Yale University, New Haven, CT  
1995 BA, Geology, Augustana College, Rock Island, IL

**2019 Teaching**
Spring:  Dinosaurs (EGGS 103)  
          Historical Geology (EGGS 130)  
          Introduction to Paleontology (EGGS 365)  
Fall:  Dinosaurs (EGGS 103)  
       Natural Disasters (EGGS 107)  
       Special Topics: Museum Science (EGGS 390)

**Graduate Student**

**2019 Service Activities**
Continued to organize and manage the department’s geological and paleontological collections, directed a student worker on the curation and cataloging of the specimens in the collection. Oversaw the setup of a new laboratory for the preparation of fossils. Developed a minor for museum science that will be anchored by two new courses on museum collection conservation.  
Led the Yale Peabody Museum of Natural History annual field program in the Petrified Forest National Park.
Dr. Jennifer J. Haney  
Assistant Professor

**Scholarly Interests**  
Environmental Hazards and Vulnerability  
Societal Responses to Environmental Hazards  
Hazard perception  
Geographies and Drivers of Terrorism

**Education**  

**Recent Presentations and Publications**  

**Grants**  

**2019 Teaching**  
Introduction to Environmental Science (EGGS 100); Environmental Issues and Choices (EGGS 105); Geography and Information Systems (EGGS 160) Environmental Risks and Hazards (EGGS 305); Geography of Terrorism (EGGS 311)
Service Activities
University Wide Sabbatical Committee
Columbia County Emergency Management Agency – Volunteer
Curriculum/Assessment Committee – Geography Pod
Outstanding Student in Geography and Planning Award Committee – Chair
Temporary Faculty Search Committee – Planning (2019, member)
Joshua D. Sonntag ’14 & Chelci A. Kravabloski ’16 EGGS Scholarship Selection Committee

Certifications
Certified Emergency Manager (CEM) Designation by International Association of Emergency Managers (IAEM)
John G. Hintz  
Professor

Scholarly Interests
My research interest center broadly on sustainable management of land resources. My two foci are publicly owned (especially federally owned and managed) lands and the politics and ideologies that guide their management. I am particularly interested in debates over the presence and role of vertebrate predators, including reestablishing their presence and roles in places where predators have been eradicated (i.e., rewilding). A second, related, research thread centers on sustainable agriculture, specifically land use methods by those farmers that self-identify as sustainable food producers. Ideally, I would like to bridge these two research foci, assessing the potential for planned integration of publicly owned and sustainably farmed lands into ecologically sustainable and trophically rich integrated landscapes.

Education
2005 University of Kentucky, Ph.D., Geography,  
1998 University of Idaho, M.S., Geography,  
1988 Florida State University, B.S., Geography

2019 Teaching
Spring: Land Resources Management (EGGS 302, 1 section)  
          Environmental Issues and Choices (EGGS 105, 3 sections)  
Fall:    U.S. Public Lands (EGGS 386, 1 section)  
          Environmental Issues and Choices (EGGS 105, 2 sections)  
Summer: Special Topics in Field Geology (EGGS 330, 1 section)

2018-19 Service Activities
APSCUF Meet and Discuss: faculty co-chair  
EGGS Departmental Committees: Budget Committee (Chairperson); Sabbatical Committee;  
Curriculum/Assessment Committee; Observation and Evaluation Committee; Temporary Pool Search Committee  
Other University Service Work: BU Green Campus Initiative (founding member); Bloomsburg University Outdoor Classroom (supervisor)

Professional Conference Presentations
Scholarly Interests
I am a classically trained stratigrapher-sedimentologist who has worked in a variety of geologic settings in the United States and Mexico. Much of my research and geologic mapping has focused on fluvial successions in the Devonian – Pennsylvanian of Pennsylvania, the Cretaceous of Utah, Miocene-Pliocene fluviolacustrine deposits in Nevada, and fluvial systems in the Cretaceous of Sonora, Mexico. My industry background is largely in the aggregate mining industry (construction materials) and oil and gas exploration. Other research interests include geoarchaeology in northern Arizona and Mexico and medical geology studies in the Mojave Desert of southern Nevada, addressing the occurrences of naturally occurring asbestos and arsenic. I utilize an integrative approach to research and lean heavily on GIS and remote sensing technology.

Education
2000  Ph.D., Geology (Stratigraphy and Sedimentology), University of Wyoming
      Advisor: Dr. Ronald J. Steel
1995  M. S., Geology (Stratigraphy and Sedimentology), UNC-Wilmington
      Thesis: Stratigraphic and Sedimentologic Analysis of the Paleocene Beaufort Group, Lenoir and Craven
      Counties, North Carolina.  Advisor: Dr. William B. Harris
1993  B. S., Geology, UNC-Wilmington.

2017 – 2019 Publications
Jamie C. DeWitt, Brenda J. Buck, Dirk Goossens, Yuanxin Teng, James Pollard, Brett T. McLaurin, Russell Gerads, Deborah E. Keil, 2017, Health effects following subacute exposure to geogenic dust collected from

**2017 – 2019 Conference Presentations** (*Bloomsburg University undergraduate co-author*)


**2019 Teaching**

**Spring:** Natural Disasters (EGGS 107), Earth Materials (EGGS 260)

**Fall:** Physical Geology (EGGS 120), Stratigraphy and Sedimentology (EGGS 368)
Scholarly Interests
My major field of research is in the study of asteroids, and I published a general book on the field in 2015. Last year, I used data from the Arecibo radar to generate a new 3D shape model for one of the largest metallic asteroids – 216 Kleopatra. The model is shown above, and this image was used as the cover of the journal issue when we published it. We have never visited a metallic asteroid and this object may be a future mission target for the European Space Agency. A year ago, I completed similar work for the largest metallic asteroid, 16 Psyche. My work on that asteroid is being used by NASA planners for a new mission, called Psyche, which will launch in 2022. We anticipate making new observations of Psyche later this year to refine our shape model and aid the mission.

Recent Publications

2019 Courses
The Planets (EGGS 106), Map Use and Analysis (EGGS 242), Quantitative Methods (EGGS 150)

2019 Service Activities
Friends of the Bloomsburg Town Public Library, President.
Central Columbia High School, Agricultural Science Advisory Council.
Ms. Cheryl L. Smith  
Department Secretary

Education

B.S. in Communications (1984) from Clarion University of Pennsylvania

Interests

Assistant for Environmental Science Learning Community (Fall 2018)  
Mentor for students and new staff employees  
Web designer

Organizations

Kiwanis Club of Milton/Warrior Run (July 2015-December 2017)  
Bloomsburg University Chapter PASSHE Women’s Consortium (May 2014-December 2016)  
Bloomsburg University Secretarial Roundtable (August 2012-January 2015)  
Bloomsburg University Clerical Organization (January 2011-December 2016)

Professional Conferences, Certificates, and Service

Search Committee for Clerk Typist 2: Zeigler College of Business at Bloomsburg University of Pennsylvania (May 2017)  
Emergency Food Bag Program: Bloomsburg University of Pennsylvania (June 2015-September 2016)  
PASSHE Women’s Consortium Leadership Institute for Professional & Staff Employees: State College, PA (June 10-12, 2015)  
Bloomsburg University’s Student Employee of the Year: Selection process (Spring 2015)  
Unlawful Harassment Prevention for Higher Education Staff Supervisors: Certificate of Completion (February 9, 2015)  
PASSHE Women’s Consortium Conference: Bloomsburg University of Pennsylvania (September 25-26, 2014)  
Certificate of Appreciation for Outstanding Dedication to the PRAXIS Testing Program: Bloomsburg University of Pennsylvania (2014)  
EMPOWHER: Women’s Leadership Symposium: Lewisburg, PA (October 3, 2013)
Adrian Van Rythoven  
Assistant Professor  
Mineralogy & Economic Geology

Scholarly Interests  
My research interests are mostly in the realm of economic geology and resource development. These interests encompass resources such as diamond/kimberlite, epithermal silver/base metals, carbonatites/rare earth metals, and industrial minerals.

Education  
University of Toronto, Toronto, Doctor of Philosophy, diamond geology, 2012  
University of Toronto, Toronto, Masters of Science, geochemistry, 2006  
University of Toronto, Toronto, Honours Bachelors of Science, geology, 2005

2019 Funding  
Faculty Professional Development Grant (PASSHE-wide) - $6,438. To develop the Black Hills area as a destination for the EGGS 330 introductory field course. Also, to collect rock and mineral samples for related teaching and research.  
Professional Experience Grant - $1,689 (BU-internal). To fund Professional Geology major Alison Evans over the summer for sample curation and powder X-ray diffractometry.  

2019 Teaching  
Spring: Mineral Resources (EGGS 461), Petrology (EGGS 262), Natural Disasters (EGGS 107)  
Fall: Mineralogy (EGGS 261), Natural Disasters (EGGS 107) (2 sections)

2019 Scholarship  

2019 Service Activities  
- department ambassador to TALE  
- assistant coach with Exploring Club 42.  
- representative at Open House events for prospective high school juniors and seniors  
- Volunteer water-sampler with the ALLARM Stream Team.  
- Anchor Program: Tour Guide for Centralia region  
- FPDC campus-wide committee member  
- Search committee member for tenure-track soils scientist
Scholarly Interests
1. Distribution and growth rates of gooseneck barnacles across the tropical Pacific Ocean in relation to environmental parameters and ENSO cycles.
2. Small scale distribution of salt marsh plant species in the mid-Atlantic region with respect to elevation and hydrology changes associated with sea level rise.
3. Research conducted with students largely involves water chemistry of both unimpaired streams and those impacted by acid mine drainage, and evaluating the effectiveness of various AMD treatment systems.

Education
University of Pittsburgh, Pittsburgh, Pennsylvania, Ph.D. Geology, 1996
Texas A&M University, College Station, Texas, M.S. Oceanography, 1980
Vanderbilt University, Nashville, Tennessee, B.A. General Biology, 1974

2019 Teaching
Spring: Wetlands Ecology (MARSCI 250)
     Oceanography (EGGS 259)
     Physical Geology Laboratory (EGGS 120-C)
     Internship (1 student) (EGGS 496)
Summer: Special Topics in Field Geology: N. Arizona and S. Utah (EGGS 330)
Fall:  Oceanography (EGGS 259)
      Earth Materials (EGGS 260)

Presentations (2017-Present) (* denotes undergraduate researcher)
*Helfrich, Autumn L.; *Dalbo, Brian; Venn, Cynthia and Hallen, Christopher P. 2019. Assessment of Sediments within the Pine Forest Mine Anoxic Limestone Drain Treatment System in St. Clair


Whisner, Jennifer and **Venn, Cynthia**. 2017. Hydrologic restrictions limit resilience of salt marsh in Greenbackville, VA. Presented at the Coastal and Estuarine Research Federation Biennial Conference, November 5-9, 2017, Providence, RI


**Venn, Cynthia**. 2017. Correlation between Oxygen Isotopes and Temperature in shells of Lepas anatifera (Cirripedia: Lepadidae) from the Tropical Pacific in order to determine Growth Rate. Presented at the ASLO Aquatic Sciences Meeting, Honolulu, Hawaii, February 26-March 3, 2017.


*Adams, James M.; *Shapiro, Nathan S.; Venn, Cynthia; and Hallen, Christopher P. 2017. An ongoing assessment of Scarlift 15 abandoned mine drainage remediation system, Ranshaw (Northumberland County) PA. Geological Society of America Abstracts with Programs. Vol. 49, No. 2. doi: 10.1130/abs/2017NE-291449.


2019 Service Activities
Trained EGGS student on preparing specimens for and examining and photographing specimens on the optical microscopes and preparing and examining specimens on the scanning electron microscope
Graduate Committee for Caitlin Collins, Biology and Allied Health Sciences student
Organized fundraising plant sales to support field experiences for EGGS 330 Field Courses (donated to the BU Foundation EGGS field fund). Raised $2750.00
Moderator for the documentary “Albatross” for the Green Campus Initiative Film Series
Participated in a pre-meeting service workshop painting houses of victims of Hurricane Maria, Ocean Sciences Meeting in San Juan, PR
Interview on Ocean Pollution and Pacific Garbage Patch for WKOK Radio
Participated in Academic Advisory Council meetings of the Chincoteague Bay Research Station
Member of Susquehanna River Heartland Coalition for Environmental Studies
COST Academic Grievance Board Pool
COST Pathways in Science and Technology Committee EGGS Representative
Represented EGGS in the Majors and Minors Fair
EGGS Search Committee for Tenure-track Soils Position
EGGS Search Committee for Temporary Faculty
EGGS Facilities Committee
EGGS Hyperwall Committee
EGGS Budget Committee
EGGS Observation and Evaluation Committee
Dr. Jennifer Whisner  
Associate Professor  

Columbia County Water Education Day

**Scholarly Interests**
My research involves collecting, analyzing, and interpreting field-based data such as the orientation of layered rocks and water levels and water chemistry in streams and water wells. The results of my work can be used to explore for and exploit our natural resources, but also to identify and characterize the impacts of humans on our environment. My scholarly activities focus on three areas: 1) structural geology and the development of curvature in mountain chains, 2) the effects of human modifications on streams, specifically on sediment transport and channel changes, and 3) water (including groundwater) quality.

**Education**
2010  Ph.D., Geology, University of Tennessee, Knoxville  
1994  M.S., Geology, Western Michigan University  
1991  B. S., Chemistry, University of Michigan, Ann Arbor

**Editor-Reviewed publications (2016-2019)**
Whisner, J., 2018, Teaching Tip: Field Trip Best Practices. Prepared for the Ad Hoc Teaching Committee of BU APSCUF

**Conference Presentations (2016-19)**
*indicates Bloomsburg University student presenter


2016-2019 Funding

2017  **Funded: $11,500 Degenstein Foundation through Susquehanna Heartland Coalition for Env'l Studies**
Water quality and quantity along Fishing Creek and turtle population study along Pine Creek
Co-PI with. B. Franek

2016  **Funded: $4254  Degenstein Foundation through Susquehanna Heartland Coalition for Env'l Studies**
Collecting and analyzing GIS and stream discharge data in support of developing a flood forecasting model for the Fishing Creek Watershed.
Co-PI with. B. Franek

**Funded: $5746  Degenstein Foundation through Susquehanna Heartland Coalition for Env'l Studies**
Water Quality and Soil Geochemistry in Alluvial Deltaic Deposits from Large Tributaries of the Susquehanna River
PI.: M. Ricker, co-participant with M. Shepard

2019 Teaching

**Spring:**
Introduction to Environmental Science (EGGS 100)
Groundwater Hydrology (EGGS 470)
Senior Seminar in Environmental, Geographical, and Geological Sciences (EGGS 495)

**Fall:**
Introduction to Environmental Science (EGGS 100)
Surface Hydrology (EGGS 370)

2019 Department Service

Fall 2018-present Department Promotion Committee chair
Fall 2018-present Department Tenure Committee chair
Fall 2017-present Co-manager BU Geography, Geosciences, & EGGS Alumni and Friends facebook page
2018-19 EGGS Search committee for Tenure-Track Soils position
2016-present Observation and Evaluation Committee
2012 – present Department assessment czar
2011 – present Department BOLT czar
2010 – present Organize and present biannual Majors Meetings
2009 – present Advisor to BUGS/MaPERs student groups
2009 – present  Sabbatical committee member

**2019 University Service**

2019  Chair, TALE Director Search Committee
2017-present  Chair, COST Research Day Committee
2012-present  Member of the Bloomsburg University Green Campus Initiative
2013-2019  URSCA Grant Review Committee & Planning and Review Committee

**2019 Community Service**

2017 – present  Member of the Central Columbia High School Ag Advisory Council/Occupational Advisory Council
2013 – present  Chair: Columbia-Montour Coalition for Source Water Protection (CMC4SWP)  
http://www.columbiamontourswp.org/
2014 – present  Secretary, Fishing Creek Watershed Association
Apr. 6, 2019  Helped run an information station on proper disposal of prescription drugs for the CMC4SWP  
Good Water = Good Fishing Day at Kocher Park.
Mar. 30, 2019  Ran Clean Water Activity table (Enviroscape and Groundwater Models) for the Columbia County  
Family Center 29th Annual Children’s Fair. More than 250 families attended.
Jan. 14/15, 2019  Columbia County Vo-Tech: seven *Streams, Rivers, and Floods* presentations and accompanying  
hands-on stream table activities
Scholarly Interests
I have a variety of interests. Foremost is the in the field of Structural Geology and Tectonics, I have worked in the Rockies and the Appalachians mainly in sedimentary foreland fold and thrust belts. I am currently interested in the changes in structural style at the boundary of the Pennsylvania Fold and Thrust belt and the Pennsylvania Plateau and how these changes manifest themselves in fracture patterns, changes in bedding orientation as well as change in microstructures. Along these lines, I was a stop leader and wrote a guidebook entry for the 84th meeting of the Field Conference of Pennsylvania Geologists. I am also interested in the use of thermal imagery for planetary analysis and terrestrial analogues of planetary features. My research interests also extend to past seismic activity (paleoseismology), especially in the comparatively seismically inactive Eastern United States. I am continuing to study a shear zone in the central Pyrenees with a colleague from Sam Houston University.

Education
2005  Ph.D., Geology (Structural Geology and Tectonics), University of Tennessee
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.

2019 Teaching
Spring:  Physical Geology (EGGS 120), Geomorphology (EGGS 265)
Summer: Co-taught 6 week Geologic Field Camp in the Spanish Pyrenees
Fall:    Physical Geology Lab (EGGS 120), Geomorphology (EGGS 265)
         Structural Geology (EGGS 369)

2019 Service Activities
- Member COST Curriculum Committee
- COST Science Iditarod
- Teaching Volunteer for Columbia County Water Education Day demonstrating Stream dynamics
- Outreach at Columbia-Montour Vo-Tech demonstrating Stream dynamics
- STEM Outreach at Southern Columbia High School and Central Columbia Middle School