



**2019 Early Career STEM Educators Workshop**  
**Great Wolf Lodge, Wisconsin Dells, WI**  
**Sponsored by the**  
**UW System Women and Science Program**



**“Strengthening Your Courses”**  
**NAGT Traveling Workshop**

**Facilitators**



**Dr. Edith Davis**  
**Assistant Professor (Tenured)**  
**Coordinator of Science Education**  
**Florida A & M University**

Dr. Edith Davis is a science professor at Florida A & M University. She has a vision to increase science achievement in our children. She was a Woods Hole United States Geological Survey Research Fellow as well as the State of Texas Environmental Specialist for Small Business. Dr. Davis also represented Texas' small businesses on an EPA task force. She served on a White House round table representative for women. Dr. Davis earned her MS in Geophysics from Stanford University and her Doctorate in Education Curriculum and Instruction with an emphasis in Science Education and Research (Middle Schools) from Baylor University.



**Dr. Julie Bartley**  
**Associate Professor of Geology and**  
**Environmental Studies**  
**Gustavus Adolphus College**

Julie teaches courses in historical geology, sedimentary geology, environmental geochemistry and paleontology. Her research interests lie in the interface of biology, chemistry, and sedimentary processes on the early Earth. She studies microbial ecosystems, the fossilization of microbes, and the geologic structures left behind by microbes. Julie served as chair of Geology from 2010-13 and 2014-16 and as Associate Provost and Dean of Sciences and Education from 2016-18. She has participated in several On the Cutting Edge workshops, was the project director for an InTeGrate implementation project, and has been a panelist for one of the InTeGrate professional development webinars.



**Dr. David C. Gosselin**  
**Director – UNL Sustainability Initiative**  
**Director - Environmental Studies**  
**Professor of Earth Science**

**School of Natural Resources**  
**University of Nebraska-Lincoln**

Dr. Gosselin completed a Ph.D at the School of Mines and Technology in Rapid City, S.D where he had the opportunity to investigate Archean rocks and work on planetary materials. Dr. Gosselin's current scholarly activities research focuses on his commitment to creating professional development opportunities that benefit students and educators in both face-to-face and distance- delivered environments. His current research focuses on Earth, environmental, and interdisciplinary education, leadership development, workforce issues, sustainability education. His past research focused on the use of chemistry and basic principles of water flow to understand both basic and applied scientific problems. Examples include assessing: local and state-wide groundwater quality; the physical and chemical variations of groundwater resources; the behavior of trace elements and natural occurring isotopes in groundwater; the potential impact of environmental change on Sand Hills environments; groundwater management strategies, and water quality variations in public water supplies. In October 1999, he was recognized by the Nebraska Association of Teachers of Science with their Catalyst Award for leadership, dedication and service to science education. In 2014, he received the Omtvedt Award for Innovation in Teaching at UNL. In his capacity as the Director of the Environmental Studies program, he currently serves on the board of directors of the Association of Environmental Studies and Sciences.

## **SCHEDULE**

### **Thursday, October 24**

#### **Workshop**

**(Gray Wolf Room)**

- 9:45 am Welcome - Jennifer Schuttlefield Christus,  
Director of UW System Women and Science Program
- 10:00 am - 12:00 pm Session 1: Societally Relevant and Student-Centered Curriculum Materials  
David Gosselin
- 12:00 - 1:00 pm Lunch (White Wolf Room)
- 1:00 pm - 3:15 pm Session II: Learning Outcomes and Course Goals  
Julie Bartley
- 3:15 pm - 3:45 pm Break
- 3:45 pm - 6:30 pm Session III: Active Learning  
Edith Davis
- 6:30 pm - 6:45 pm Checkpoint
- 6:45 pm - 7:45pm Dinner (White Wolf Room)

### **Friday, October 25**

- 7:30 – 8:30 AM Breakfast (White Wolf Room)

#### **Workshop**

**(Gray Wolf Room)**

- 8:30 am - 8:45 am Checkpoint Feedback
- 8:45 am - 9:45 am Session III - Continued: Active Learning  
Edith Davis
- 9:45 am - 10:00 am Break
- 10:00 am - 12:00 pm Session IV: Assessing Learning in Courses  
David Gosselin, Julie Bartley, Edith Davis
- 12:00 - 12:45 pm Lunch
- 12:45 pm - 3:30 pm Session V: Product, Peer Review, and Present  
David Gosselin, Julie Bartley, Edith Davis
- 3:30 pm - 4:00 pm Grant Opportunity Information, Assessment, and Closing  
Jennifer Schuttlefield Christus