

## **Agenda for 2022 CIVIS CHANCE Romania Workshop**

Organizers and Presiders: Dr. Jacqueline McLaughlin and Dr. Kathleen Fadigan

Penn State University – Lehigh Valley

Date: September 19 - 23, 2022 (M-F)

**Workshop Goal:** A week-long professional development workshop given at the University of Bucharest (UB) to train undergraduate research mentors from CIVIS partnering institutions on inquiry-guided teaching and learning strategies, CURE (Course-based Undergraduate Research Experiences) design and implementation, and evidence-based practice in mentoring undergraduate research embedded within short-term study abroad.

### **Day 1 (M, 9/19): Welcome, Introductions, and Breaking Ground**

Overview of CIVIS grant - *CHANCE: Undergraduate Research Experiences on the Sustainability of the Danube River and its Delta through Global Engagement*  
stage 1 – spring 2022 fall workshop (train the undergraduate research mentors)  
stage 2 – spring 2023 international online course  
stage 3 – summer 2023 international field course

Current Philosophies and Perspectives in Science, Technology, Engineering, and Mathematics (STEM) Education – Social Constructivism

High Impact Practices (HIPs) in STEM – What are they? The Power of Transformative Learning

Penn State University CHANCE Program and History with the University of Bucharest

What is Civic Engagement?

The Danube Delta and The United Nations Sustainable Development Goals (UN SDGs)  
Group Activity

### **Day 2 (T, 9/20): Elements of Successful Undergraduate Research**

What is a CURE? Group Activity

Review CURE Pedagogical Framework

McLaughlin, J. S., & Coyle, M. S. (2016). [Increasing authenticity and inquiry in the cell and molecular biology laboratory](#). *The American Biology Teacher*, 78(6), 492-501.

The CHANCE Model – Real World Undergraduate Research Embedded in Short-term Study Abroad

McLaughlin, J.S. (2021) [Teaching environmental sustainability while transforming study abroad](#). *Sustainability*, 13(1): 1-13.

Evidence of Student Success: CHANCE Assessment Data

CHANCE Alumni Student Presentations – 2021 Romanian Fellows

Civic Engagement Post-CHANCE: Student Example – Ghenu Vlad Octavian

Examples of Quality Undergraduate Research Mentorship (good vs. bad)? Group Activity

### **Day 3 (W, 9/21): Field Trip to Danube River – Journal Reflection**

Connecting Science to Conservation and Sustainability

What is Conservation Biology?

What is Sustainability?

Journaling Activity using UN SDGs

Prompts

Experience

Group Reflection

### **Day 4 (TH, 9/22): Phases of CHANCE CURE Mentorship**

Undergraduate Research – Best Practices in Mentorship Group Activity

Shanahan, J.O., Ackley-Holbrook, E., K.A., Hall, E.E., Stewart, K., & Walkington, H., Stewart (2019). Ten Salient Practices of Undergraduate Research Mentors: A Review of the Literature. *Mentoring & Tutoring: Partnerships in Learning*, 23: 359-376.

Hall, E.E., Walkington, H., Vandermaas-Peeler, M., Shanahan, J.O., Gudiksen, R.K., & Zimmer, M.M. (2018). Enhancing short-term undergraduate research experiences in study abroad: curriculum design and mentor development. *Perspectives on Undergraduate Research and Mentoring*, 7(1), 1-17.

Phases of CHANCE CURE Mentorship: Pedagogical Framework

Panel Discussion: Professional Development Outcomes, Personal Changes, Advice to New Mentors – 2021 CHANCE Romanian Mentors (TIMED Q & A)

Lab Activity at UB Faculty of Biology and Group Reflection

**Day 5 (F, 9/23): Group Reflection and Next Steps**

Stereotypes of Undergraduate Students – Gaining Traction and a Community of Practice

Next Steps – CHANCE 2023