

Virtual EMS Celebration of Undergraduate Engagement (CUE) - Wednesday, April 14, 2021

10:30 am – 11:30 am **Session 1, Student Presentations**

Room 1 (<https://psu.zoom.us/j/94875982498>)

Hosted by Conner Patton, Becca Payne, Jamie Peeler

- 10:30 am – 10:45 am **Lydia Yeatman, Energy Business and Finance**
Submission: Digital Story
Title: Hedging Long-Term Revenue Risk in Electricity Markets
- 10:45 am – 11:00 am **Elizabeth Baierlein, Energy Engineering**
Submission: Digital Story
Title: Saving Money with Solar
- 11:00 am – 11:15 am **Hannah Chop, Environmental Systems Engineering**
Submission: Digital Story
Title: Gen Z Perspectives on Lab-Grown Diamonds
- 11:15 am – 11:30 am **Youngsuk Yoon, Materials Science and Engineering**
Submission: Lightning Talk
Title: Irrigation Solution to Kenya

12:30 pm – 1:30 pm **Plenary Talk**

Room 2 (<https://psu.zoom.us/j/99069569186>)

Hosted by Hannah Chop, Del Bright, and Karen Marosi

Welcome, Dr. Yvette Richardson
Plenary Speaker, **Michael Hermann**
“The Power of Maps in Storytelling”

2:30 pm – 3:30 pm **Session 2, Student Presentations**

Room 3 (<https://psu.zoom.us/j/99041303731>)

Hosted by Kyra Pond, Becca Payne, Jamie Peeler

- 2:30 pm – 2:45 pm **Harman Singh, Geography**
Submission: Poster
Title: Examining the Complex Nature of Flash Flooding through a Mixed Method Approach: A Case from Kerala, India
- 2:45 pm – 3:00 pm **Marah McCauley, Energy Engineering**
Submission: Poster
Title: The Effect of Electrode Material on the Performance of the Ferri-Ferrocyanide Reaction for Reverse Electrodialysis

- 3:00 pm – 3:15 pm **Bryttani Wooten, Meteorology and Atmospheric Science**
 Submission: Poster
 Title: Human Heat Vulnerability: The Development of a Web-Based Tool for Predicting Heat Stress Among High School Athletes
- 3:15 pm – 3:30 pm **Thomas Parry, Energy and Sustainability Policy**
 Submission: Lightning Talk
 Title: The Process of Creating a Climate Action Plan for Monaca Borough Pennsylvania

Room 4 (<https://psu.zoom.us/j/93140732180>)

Hosted by Gabriel Hiestand, Jane McCandless, Greg Wong, Jacob Zorn

- 2:30 pm – 2:45 pm **Ridge Bachman, Energy Engineering**
 Submission: Poster
 Title: Investigation of the Positive Electrode Kinetics for the Vanadium Redox Flow Battery
- 2:45 pm – 3:00 pm **Hannah Perrelli, Geography**
 Submission: Poster
 Title: Understanding the Power Dynamics and Spatial Patterns of Water Insecurity in the Navajo Nation

4:00 pm – 5:00 pm

Plenary Talk

Room 5 (<https://psu.zoom.us/j/94300950223>)

Hosted by Del Bright, Karen Marosi

Plenary Speaker, **Dr. Laura Cruz**
 “Engaging Engagement: What We Can Learn from Research on Student Engagement”

6:30 pm – 7:30 pm Session 3, Student Presentations

Room 6 (<https://psu.zoom.us/j/99650836659>)

Hosted by Leonardo Silva, Becca Payne, Jamie Peeler, Greg Wong, Jacob Zorn

- 6:30 pm – 6:45 pm **Shreya Ramesh, Environmental Systems Engineering**
 Submission: Poster
 Title: Understanding Inorganic Carbon Concentrations Across the Continental US Using Machine Learning Models
- 6:45 pm – 7:00 pm **Catherine Kohlman, Meteorology and Atmospheric Science**
 Submission: Poster
 Title: Atmospheric Forcing of Marine Heat Waves in the Eastern North Pacific

- 7:00 pm – 7:15 pm **Al Reem Mohammed Husain Alshimmari, Geosciences**
Submission: Lightning Talk
Title: Analysis of Whakaari Island Changes After Eruption Through Satellite Imagery
- 7:15 pm – 7:30 pm **Nicholas Boras, Mining Engineering**
Submission: Lightning Talk
Title: Autonomous Trucking in Surface Mines