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](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 Youn, 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](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](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  
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  
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  
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
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<td>7:00 pm – 7:15 pm</td>
<td>Al Reem Mohammed Husain Alshimmari, Geosciences</td>
<td>Lightning Talk</td>
<td>Analysis of Whakaari Island Changes After Eruption Through Satellite Imagery</td>
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<tr>
<td>7:15 pm – 7:30 pm</td>
<td>Nicholas Boras, Mining Engineering</td>
<td>Lightning Talk</td>
<td>Autonomous Trucking in Surface Mines</td>
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