

Overview

In summer 2019, REU and RET PIs were invited to nominate an exceptional site participant to participate in this conference. From a pool of more than 45 nominees, 20 individuals were selected to attend. These students and educators will be presenting their work and achievements during a special poster session, taking place on Monday, October 21 during the conference's opening networking reception. Learn more about our invited REU and RET site participants at www.eecconference.asee.org.

REU Site Participants

Name	Institution	Poster title
Giovanni Alvarez	St. Mary's College	Battery Cooling Enhancement for Electric Aircraft using a Self-Oscillating Sweeping Jet
Nathaniel Steele Dennler	Worcester Polytechnic Institute	CoRDial: a Customizable Platform for Conversation and Expression in Human-Robot Interactions
Andrew Meier	Clarkson University	Evaluating Structural Behaviors of Connected Structures in an Integrated Academia-Industry Research Environment
Erin Milligan	Virginia Tech	Interdisciplinary Water Sciences and Engineering: Microbial Contaminants in Drinking Water after Hurricane Maria
Meagan Olsen	University of Arkansas	Development of Tape-based Electrochemical Devices for In-field Chlorate Detection
Carol Ortiz Menendez	Universidad de Puerto Rico-Mayagüez	Fourier Ptychography Microscopy inside of a multi-well-plate using a Miniature Illumination Module
Diana Renteria	Massachusetts Institute of Technology	Understanding the Role of the Physical Extracellular Microenvironment in Leukemic Stem Cell Quiescence

INVITED REU & RET SITE PARTICIPANTS

REU Site Participants

Name	Institution	Poster title
Nicole Rinaldi	Virginia Commonwealth University	Measuring Cell-Matrix Forces of Wound Healing using Micropatterning
Javier E. Rodriguez-Camacho	Universidad de Puerto Rico-Mayagüez	Rapid Detection of Bacterial Viability using Noise Analysis of Graphene Field-Effect Transistors: Toward Rapid Antibacterial Susceptibility Testing
Heather Soileau	Xavier University of Louisiana	Stabilizing Inorganic Perovskite Nanocrystal Cesium Lead Iodide Using a Solid Salt Matrix



RET Site Participants

Name	Institution And State	Poster title
James R. Ebbert	DeLand High School (FL)	Boolean Logic and Logic Gates, the Gateway to Understanding FPGAs
Mahnaz Firouzi	Chabot-Las Positas Community College District (CA)	CoRDial: a Customizable Platform for Conversation and Expression in Human-Robot Interactions
Kacie Friberg	Rye Junior High School (NH)	Scientific Inquiry in Middle School Mathematics & Social Studies Education
Katie Hutchison	Lawrence High School (KS)	"Why Should We Care about Engineering?" Making Science Content Engaging for Diverse Learners
Terri Kurtz	Assumption High School (KY)	RET Big Data and Data Science - Exploring Explainability in Machine Learning
Mackenzie McNickle	Stephen Foster Elementary School (FL)	Multidisciplinary Research Experience for Elementary School Teachers
Latasha Perreault	Monterey High School (TX)	Integrating Data Science in the High School Computer Science Curriculum
Robert Saldana	McAllen High School (TX)	Successful Integration of Manufacturing to High School Curriculum
Taylor Schmidt	George Washington High School (CO)	RET: An Investigation into the Effects of Dissolved Oxygen Content on the Clear Creek Watershed
Leander Taylor	Clear Brook High School (TX)	Membrane Photo-Reactor: Plasmon Assisted Photo-Catalytic Degradation of Urea