

2023 ERN Conference in STEM
 Washington, D.C. - February 9-11
 2500 Calvert St NW, Washington, DC 20008
 Undergraduate Oral Presentation Schedule*

Oral Presentation Session 1: Friday, Feb. 10 – 10:00am – 12:00pm
 Oral Presentation Session 2: Friday, Feb. 10 – 4:00pm – 6:30pm
 Oral Presentation Session 3: Saturday, Feb. 11 – 8:00am – 10:30am
 Oral Presentation Session 4: Saturday, Feb. 11 – 11:00am – 12:30pm

| Session # | Abstract ID | Full Name | Institution | Abstract Title |
|-----------|-------------|---------------------------|---------------------------------------|---|
| 4 | 30 | Bonilla Pérez, Charielice | University of Puerto Rico in Ponce | Ni-substituted cobalt ferrite nanocrystals: synthesis and characterization |
| 1 | 17 | Brinkley, Carley | Fayetteville State University | Photorealistic Simulation |
| 4 | 31 | Cartagena, Alondra | University of Puerto Rico at Ponce | Magnetic Characterization of Manganese-Substituted Cobalt Ferrite Nanoparticles |
| 4 | 32 | Correa Vargas, Kevin | University of Puerto Rico at Mayaguez | Photocatalytic Activity of Zinc Sulfide Quantum Dots on Amaranth Dye |
| 1 | 2 | Cruz-Bonilla, Alexxa | University of Puerto Rico, Mayaguez | The Impact of M2-polarized macrophages on the oncogenic activity of hedgehog signaling in triple negative breast cancer cells |
| 2 | 46 | Davis, Tynecia | University of Houston | Utilizing Capacitive Deionization to Desalinate Water in a Mobile Unit Powered by Solar Energy |
| 4 | 23 | Diegel, Emily | Embry Riddle Aeronautical University | Ensemble Methods for Quantifying Uncertainty |
| 1 | 8 | Garl, Emily | Delaware State University | Cannabidiol Concentration on Tumor Cell Viability |
| 4 | 24 | Hameed, Aaliyah | Louisiana State University | Physicochemical Soil Analyses of Coastal Terrestrial-Aquatic Interfaces |
| 1 | 37 | Hendrickson, Aaron | University of Washington | Species-specific changes in brain chondroitin sulfate glycosaminoglycan composition throughout aging |
| 1 | 3 | Hutson, Hunter | Arizona State University | Discovery of Novel Urethanasases using High-Throughput Methodologies |
| 4 | 25 | James, Thaddisha | Grambling State University | Metagenomic Analysis of Water and Soil in Grambling, Louisiana |
| 4 | 33 | Jefferson, Mikiyah | Jackson State University | Direct Synthesis of Water-dispersible MFe ₂ O ₄ (M=Fe ²⁺ , Ni ²⁺ , Co ²⁺ , Mn ²⁺) nanoparticles with continue growth |
| 1 | 18 | Johnson, Jarred | Fort Valley State University | Developing a License Plate Detection and Character Recognition Model for Performance Evaluation and Optimization |
| 1 | 9 | Jones, T'Aira | Jackson State University | Reproducible synthesis of iron oxide nanoparticles with recycled solvent |
| 1 | 38 | Li, Matthew | University of North Texas | Nonreciprocal Transmission of Sound Through Phononic Crystals with Broken PT Symmetry |
| 1 | 10 | Lugo-Ruiz, Alondra A. | University of Puerto Rico in Ponce | Photodegradation of organic contaminants in single and multi-component in the presence of Titanium Dioxide nanoparticles |
| 1 | 11 | Lugo-Ruiz, Edwin | University of Puerto Rico in Ponce | Synthesis and characterization of Nickel Oxide nanostructures for environmental applications |
| 1 | 12 | Lynn, Michael | Florida A&M University | Density Functional Theory (DFT) Study on Bulk Properties of Transition Metal Nitrides |
| 1 | 20 | Magee, Jalen | Savannah State University | A Deep-Learning Computational Instrument to Improve Freshmen Students Retention at HBCUs |
| 1 | 43 | Maggette, Ka'Nesha | NC A & T State University | Negating Professional Identity Formation in First-Year Architecture, Engineering, and Construction Women |
| 1 | 39 | Mazumder, Arnav | University of North Texas | Optimization of Nonreciprocal Phononic Crystal using Machine Learning |

*Presentation schedule is listed by primary author's last name

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| 1 | 4 | McClinton, Leslie | Tougaloo College | Post-Translational Modification of the Glucocorticoid Receptor Induction in Castration-Resistant Prostate Cancer |
| 4 | 34 | McCollum, Jaylin | Jackson State University | Development of iron and manganese quantification method using magnetic resonance imaging relaxometer |
| 1 | 5 | Michael, Zion | Florida International University | Optimization of tunnels after initial food discovery in a subterranean termite |
| 4 | 35 | Molina, Nelson | University of Puerto Rico at Ponce | Zinc Oxide Carbon Nano-Based Biosensor for the Detection of Myoglobin in Aqueous Solution |
| 1 | 44 | Moore, Demetrius | North Carolina A&T State University | Classification and Learning Motivation Challenges in Undergraduate STEM Students During COVID-19 |
| 1 | 13 | Núñez Colón, Angelie | University of Puerto Rico at Ponce | Production and Characterization of Zinc Selenide Nanocrystals with Modified Surface |
| 1 | 40 | Ogoi, Nixon | North Carolina Central University | Single Walled Carbon Nanotube Mechanical Properties Using Molecular Dynamics, and Development of Database for Machine Learning |
| 1 | 14 | Pagan, Jorge | University of Puerto Rico at Ponce | Detection of Albumin using Zinc Oxide as a Nano-Based biosensor in aqueous solutions |
| 1 | 41 | Rankin, Sarai | Morgan State University | Correlating Stellar Mass and Protoplanetary Disk Mass in the Cepheus OB3b Star-forming Region |
| 4 | 26 | Reyes, Maximo | Missouri State University | Prior exposure to contaminants has subtle effects on wheat performance |
| 1 | 15 | Reynoso, Lucas | Arizona State University | Laboratory Analysis of Ceres Analogue Minerals |
| 4 | 29 | Rivera, Yaniel | University of Puerto Rico in Cayey | Some new criteria for absolute irreducibility of multivariate polynomials over finite fields |
| 4 | 27 | Rueda, Ignacio | Texas A&M University-Corpus Christi | Temporal Response of a Hawaiian Coral, Montipora capitata, Under Varying seawater Conditions |
| 4 | 36 | Santiago Giraldo, Fabio M | University of Puerto Rico at Ponce | Production and characterization of tin oxide (SnO ₂) nanostructures |
| 1 | 6 | Sellers, Anisa | Virginia State University | Ecotoxicological investigation of microplastic exposure on oyster larvae and their microbiomes in an oyster hatchery |
| 1 | 42 | Shinder, Meyer | University of North Texas | Superlattice Filter for Harmonics Suppression of 5 MHz Ultrasound |
| 4 | 28 | Shingleton, Kailey | Howard Payne | Coral Using Micro Plastics in Reef Building |
| 1 | 1 | Skoufis, Nicholas | Vanderbilt University | Impact of Community-Level Social Determinants of Health on Weight Loss Outcomes after Bariatric Surgery |
| 1 | 45 | Smith, Joshua | North Carolina A&T State University | GPA's and Learning Motivation Challenges in Undergraduates STEM Students During COVID-19 Pandemic |
| 4 | 22 | Sogbesan, Kehinde | Florida State University | Identification of a Rapid Chlamydia trachomatis and Neisseria gonorrhoeae POC Test utilizing ELISA Technology |
| 1 | 7 | Thomas, John | Grambling State University, Grambling, LA | The Surveillance of SARS-CoV-2 in Wastewater |

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| 1 | 16 | Torres-Torres, Kerianys N. | University of Puerto Rico in Ponce | Generation and Characterization of ZnO nanostructures in presence of Ethylene glycol |
| 1 | 19 | Toure, Oumar | Fayetteville State University | Visual Object Detection and Navigation of Robot Swarms |

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