

**2026 ERN Conference in STEM**  
**Graduate Oral Presentation Schedule**

**Session 1:** Fri. March 20<sup>th</sup> (10:00am – 12:00pm), **Session 2:** Fri. March 20<sup>th</sup> (4:00pm – 6:30pm)  
**Session 3:** Sat. March 21<sup>st</sup> (8:00am – 10:30am), **Session 4:** Sat., March 21<sup>st</sup>(11:00am – 12:30pm)

| First Name     | Last Name        | Abstract Title  | Presentation Session | Presentation Room | Abstract ID (For Judges): |
|----------------|------------------|---|----------------------|-------------------|---------------------------|
| Muna           | Abdelrahim       | Algorithmic Performance vs Bias Metrics for Bias Detection Pre- and Post-Fairness Intervention                          | Session 4            | Roswell           | 336                       |
| Brittany       | Bufford          | MnO <sub>2</sub> -TiO <sub>2</sub> decorated pinewood-based biochar: A multifunctional composite for water purification | Session 3            | Lenox             | 345                       |
| Aolanys        | Castellano Matos | Development of Cost-Effective EC Sensor Using Algae-Derived CQDs & MIPs for PFOA Detection in Water                     | Session 1            | Greenbriar        | 316                       |
| Madison        | Celestine        | Goat Manure Wastewater Treatment and Algae Cultivation  | Session 3            | Lenox             | 346                       |
| Xandria        | Chandler         | Poly(Xylitol Sebacate): Biopolymer for Biomedical Applications  | Session 1            | Greenbriar        | 328                       |
| Abner          | Colon            | Molecular characterization and anticancer effects of <i>Thalassia testudinum</i> on colorectal cancer cells             | Session 2            | Roswell           | 285                       |
| Maria del Alma | Concepcion       | Integrated Monitoring of Eutrophication Dynamics for Effluent Discharges in Oceanic Waters                              | Session 3            | Techwood          | 391                       |
| TaBonya        | Craig            | The Effects of the 2025 Atlantic Hurricane Season on Heavy Metals in Oysters in the Bogue Sound                         | Session 3            | Lenox             | 347                       |
| Jada           | Cummings         | Geospatial Analysis of Hypoxia in the Northern Gulf of America Coastal Waters   | Session 3            | Lenox             | 348                       |
| Axwel          | Deliz-Arroyo     | Isolation & Characterization of Saucy, a Myoviridae Bacteriophage Infecting <i>Arthrobacter globiformis</i>             | Session 4            | Kennesaw          | 298                       |
| Clifford       | Denize           | Effect of Organic, Ionic, and Mixed Electrolytes on Electrochemical Performance of Li/FeS <sub>2</sub> Cells            | Session 1            | Lenox             | 362                       |
| amber          | dotson           | Actuation of Self-assembled Bacterial Flagella Nanoswimmers   | Session 1            | Lenox             | 359                       |

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| Misan      | Esimaje   | Enhancing Prostate Cancer Detection from PSA Time-Series Using Recurrence Plots and Deep Learning    | Session 4            | Roswell           | 332                       |
| Marcelo    | Farfan    | Environmental Chamber for Novel 3D Printing through Optimized Dry Pearl Chain Assembly               | Session 3            | Techwood          | 390                       |
| Tyshawn    | Ferrell   | Variation in dengue virus lineages affects neutralization by sera from infection and vaccination     | Session 4            | Kennesaw          | 410                       |
| Darsh      | Gandhi    | A Novel Mathematical Model of Oropouche Virus Transmission Dynamics                                  | Session 4            | Roswell           | 355                       |
| Meriama    | Genamo    | Synthesis and Evaluation of Zinc II) Complexes for Antimicrobial and Antidiabetic Applications       | Session 1            | Greenbriar        | 321                       |
| Bikash     | Ghimire   | UAV-based Multispectral Remote Sensing Data for Monitoring Crop Growth Parameters of Corn (Zea mays) | Session 3            | Greenbriar        | 309                       |
| Barbara    | Grissom   | A Sustainable Food Ecosystem to Improve Food Security on HBCU Campuses                               | Session 2            | Lenox             | 378                       |
| Christina  | Harris    | Influence of Substance Use Disorders on Human Postmortem Microbiomes                                 | Session 4            | Kennesaw          | 299                       |
| Hayleigh   | Harrison  | Evaluating Pennisetum purpureum for Soil Remediation, Stress Tolerance, and Bioenergy Use            | Session 3            | Lenox             | 349                       |
| Sofia      | Howe      | The impact of obesity-induced changes in adipose tissue on ovarian cancer progression                | Session 2            | Roswell           | 286                       |
| Alaina     | Howell    | Antimicrobial Properties of Hemp Biochar and Polymer Poly-3-hydroxybutyrate-co-3-hydroxyvalerate     | Session 1            | Lenox             | 364                       |

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| Md Symum   | Islam         | Integrating Remote Sensing and Machine Learning for Drought Analysis in Texas Climate Divisions      | Session 3            | Lenox             | 340                       |
| Jayla      | Jenkins       | A Polyluminol-Based Platform for Dual Detection of Parabens and Human Serum Albumin                  | Session 1            | Greenbriar        | 329                       |
| Talija     | Johnson       | Understanding the Anticancer Effect of Combretum Micranthum Seed Extract on Ovarian Cancer Cells     | Session 2            | Roswell           | 287                       |
| Kezhan     | Khazaw        | Stemness of PCSC Clusters Enriched in Simulated Microgravity Is Distinct from Pluripotency           | Session 2            | Roswell           | 284                       |
| Arielle    | King          | Trends and Impacts of Data-Driven Research in US Higher Education Institutions                       | Session 4            | Roswell           | 335                       |
| Kenneth    | Lindsley      | Novel Automated Identification of Pneumonia in Planar Chest X-Ray Images                             | Session 3            | Techwood          | 387                       |
| Rogelio    | Lopez Bonilla | Golden Ratio Growth and Chromatic Phase Transitions in Circular Chord Graphs                         | Session 4            | Roswell           | 356                       |
| Ileanette  | López-Cruz    | Spatial distribution and speciation of zinc-based quantum dots in Ocimum basilicum plant tissue      | Session 1            | Greenbriar        | 317                       |
| JaKira     | Luckett       | Effects of IGF2BP1 Inhibition on the Metastatic Properties of Chemoresistant Colorectal Cancer Cells | Session 2            | Roswell           | 288                       |
| Jonathan   | Martinez      | Online Control of a Scaled Testbed   | Session 3            | Techwood          | 403                       |
| Anthony    | Martir Perez  | The Language of Toxicity: Understanding Titanium Dioxide Effects on Freshwater Dynamics              | Session 3            | Lenox             | 342                       |
| Alejandro  | Najera-Acosta | Spare Parts Provision through a Reliability Framework  | Session 3            | Techwood          | 392                       |

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| Isabela      | Perdomo             | 3D Printed Magnetic Micro Swimmers for Drug Delivery Applications                                    | Session 3            | Techwood          | 388                       |
| Donovan      | Perry               | Automated On-Device Fault Injection Emulation on the Raspberry Pi Pico                               | Session 3            | Techwood          | 404                       |
| Jean         | Pierre              | Insights from Wearable Technology Linking Physiological Responses to Anxiety                         | Session 4            | Greenbriar        | 374                       |
| Laurence     | Price-webb          | Early Age Investigation of Nanocellulose Modified Concrete Composites for Nuclear Reactors           | Session 1            | Lenox             | 360                       |
| Ruwini       | Rathnayaka          | Spatiotemporal Characterization of Urban Heat Island Effect Using Remote Sensing                     | Session 3            | Lenox             | 344                       |
| Paola        | Rodriguez Montoyo   | Association Between Breast Cancer and Nipple Suction as a Sexual Practice in Mexican Women           | Session 1            | Techwood          | 306                       |
| Keisy        | Rodriguez-Villafaña | Development of a Lysophospholipid-Loaded Protein Nanoparticle DDS for Targeted NSCLC Treatment       | Session 2            | Roswell           | 289                       |
| JEAN         | RUGANDIRABABISHA    | UAV-based multispectral remote sensing data for mapping fine-scale variations of crop growth paramet | Session 3            | Greenbriar        | 310                       |
| Mary Jean    | Savitsky            | Mechanically Tunable 3D Liver Models for Bioprinting and Therapeutic Screening                       | Session 1            | Techwood          | 280                       |
| Fares        | Shabarek            | Polymeric Nanoparticles for Target Delivery of Therapeutics for Breast Cancer                        | Session 1            | Techwood          | 281                       |
| Habeeb Talha | Shahan              | Optimizing 3D Printing Parameters for Enhanced Mechanical Performance of CF-PEEK Composites          | Session 1            | Lenox             | 365                       |

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| Kamyar     | Sharifi    | Genetic Architecture and Comorbidity Patterns of Idiopathic Pulmonary Fibrosis in the eMERGE Network         | Session 2            | Roswell           | 294                       |
| Trinity    | Stark      | Effects of Rhizobium tropici Exopolysaccharides on Wheat Growth and Phosphorus Availability in Soil.         | Session 3            | Lenox             | 343                       |
| Vanella    | Tadjuidje  | Chlamydia muridarum Regulates IFN- $\gamma$ Signaling in Macrophages by Upregulating the Expression of SOCS1 | Session 4            | Kennesaw          | 297                       |
| MARY       | TAYLOR     | Chitosan Blends of Poly(o-phenylenediamine) Films: A Potential Foundation for Smart Packaging                | Session 1            | Greenbriar        | 330                       |
| Kalpani    | Thennakoon | Forest Decline to Herbicide Discovery: Natural Phytotoxins from Tillandsia recurvata                         | Session 3            | Greenbriar        | 311                       |
| Ramiyah    | Thompson   | The Rhizosphere Microbiome of Nerium oleander  | Session 3            | Lenox             | 350                       |
| Matthew    | Turner     | Output Performance of Ti <sup>3+</sup> : Sapphire: Simulations Guided by a Novel Ion Implantation Method     | Session 1            | Lenox             | 361                       |
| Isaac      | Washington | Community-Centered Coastal Resilience: Education & Scalable Tech in Tampa and Belize                         | Session 3            | Techwood          | 393                       |
| Olivia     | Willoughby | Postmortem Transcriptomic Profiling of Male Reproductive Organ   | Session 2            | Roswell           | 295                       |
| Yanda      | Yang       | Analytical Geometry Planner Enables Real-time Microrobot Navigation with Dynamic Obstacle Avoidance          | Session 3            | Techwood          | 402                       |
| Valerie    | Zapata     | Comparing Direct and Indirect Optimization Methods for Flexible PLA 3D Prints Using Taguchi Design           | Session 3            | Techwood          | 394                       |