

2026 ERN Conference in STEM
Undergraduate Oral Presentation Schedule

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

First Name	Last Name	Abstract Title	Presentation Session	Presentation Room	Abstract ID (For Judges):
Favour	Adibe	A Metabolomic Analysis and Comparison of Neem, Melia, and Their Fungal Endophytic Communities	Session 2	Greenbriar	318
Frederick	Asencio	Photocatalytic Activity of Rare-Earth Doped ZnO Nanomaterials toward Contaminant Degradation	Session 2	Greenbriar	323
Paola	Batista Cruz	Cu ₂ O-Ag Nanocomposites via Green Synthesis for Antimicrobial Food Packaging	Session 1	Roswell	366
Faith	Bellamy	Individual and Area-Level Socioeconomic Predictors of Severe Maternal Morbidity in the U.S.	Session 2	Lenox	379
Jordan	Bentley	The ‘Burden’ of Being the Only: Black Women’s STEM Confidence in an Anti-DEI Landscape	Session 2	Lenox	380
Keman	Berry	Evaluating FPGA-Based Control as an Alternative to Microcontrollers for Robotic Actuators	Session 2	Techwood	406
Shane	Borowski	DESIGNING STRUCTURAL MEMBERS USING BIO-INSPIRED DESIGN PRIMITIVES	Session 3	Greenbriar	312
Syrahmei	Cacho	Synthesis of Eugenol Analogs to Improve Anti-inflammatory Properties and Bioavailability	Session 2	Greenbriar	322
Diego	Caquias-Lopez	Green Synthesis of Silver Nanoparticles Functionalized with Fructose for Antimicrobial Applications	Session 1	Roswell	367
Aubray	Chevannes	Black STEM Mentors’ Role in Shaping Black Undergraduates’ STEM Identity and Career Aspirations	Session 2	Lenox	381
Carrie	Clayton	An Examination of Administrators’ Perceptions of Undergraduate STEM students’ Learning Experiences	Session 2	Techwood	395

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Nayeli	Colón	Cd-Based Quantum Dots as Fluorescent Nanomaterials for Heavy Metal Detection	Session 2	Greenbriar	319
Charlise	Conley	Cooperative Androgen-Cytokine Axis Controls Neural Stem Cell Function via AR-TEAD Interactions	Session 4	Techwood	290
Lauren	Conway	Integrating Qualitative Analysis into Existing Water Quality Monitoring	Session 4	Lenox	351
Eva	Cullen	Synthetic Simulation of Rayleigh Wave Interaction with the Northern Appalachian Mantle Anomaly	Session 4	Lenox	341
Teryn	Dennis	“Fight the powers that be”: ‘Re-storying’ the experience of STEM through HBCU students	Session 2	Lenox	382
Joyce Marie	Diaz Zayas	In Vitro Evaluation of Anticancer and Anti-Alzheimer Activity of Plant-based proteins	Session 2	Kennesaw	277
Ke'mora	Diggs	c-Jun Overexpression Improves Baseline Cytotoxic Function of GD2 CAR-T Cells	Session 4	Techwood	291
Claudia	Disbrow	Characterization of Parkinson’s Disease-Linked Point Mutation in TMEM16F	Session 2	Kennesaw	278
Gabrielle	Erwin	Assessing Pulmonary Toxicity of Spaceflight Associated VOCs Using Human Lung Organ Tissue Equivalent	Session 1	Techwood	308
Grace	Finnerty	Improving the Nutritional Value of Porridge for Kenyan Children Using Pearl Millet and Peanut	Session 3	Greenbriar	313
Mercy	Gachie	Bright Nights, Altered Bonds: Light Pollution Effects on PVN Activity and Maternal Behavior	Session 4	Greenbriar	375
Shereiff	Garrett	Neural Networks in Detecting Pneumonia from Chest X-Rays	Session 3	Roswell	333

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Khalil	Gatto	A Low Temperature Fabrication of Amorphous Arsenic Telluride Thin-Films by Spin Coating	Session 1	Lenox	363
Analicia	Hayes	Molecular indexing of ToBRFV, PepMV and DNA barcoding of tomato fruits from Maryland grocery stores	Session 1	Techwood	307
Ashlyn	Hinton	Microglial Glycosylation in Neuroinflammation Models	Session 1	Techwood	282
Bryce	Howard	Geo-AI based approach for mapping road networks using remotely sensed data	Session 3	Roswell	337
Kemka	Ihemelandu	ApoptiScope: Imaging Tool for Quantifying NK Cell-Induced Apoptosis in 3D Pancreatic Models	Session 4	Techwood	292
Josue	Irizarry	Structure-based Modulation of Vinculin Activity to Control Focal Adhesion Stability	Session 2	Kennesaw	279
Xavier	Johnson	Examining Positive Interactions between AI and STEM Students' Professional Identity Development	Session 2	Techwood	396
Brinley	Jordan	A Comparison of Recycled Plastics Filament Production Using Pultrusion for Sustainable 3D Printing	Session 2	Techwood	397
A'Marie	King	The Effect of Arbuscular Mycorrhizal Fungi & Fusarium oxysporum on Striga Attachment to Sorghum Root	Session 3	Greenbriar	314
Kelci	Lawrence	CBD-Induced Fimbrial Regulation in Salmonella Typhimurium LT2	Session 3	Kennesaw	300
Ruth	Marius	Computational Analysis of Human Protein Interactions with HIV Reverse Transcriptase	Session 3	Kennesaw	301
Loriannette	Martinez Bou	Evaluating Recycled PET and HDPE Mechanical Properties for FDM 3D Printing Filament Production	Session 1	Roswell	368

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First Name	Last Name	Abstract Title	Presentation Session	Presentation Room	Abstract ID (For Judges):
Madeleine	Mickle	A Call to STEM Exposure: Reinforcing Young Girls and Planting Seeds	Session 2	Techwood	398
Amaya	Miller	Designing and Validating a Calibration System for Volatile Organic Compounds	Session 2	Greenbriar	327
Jared	Mims	Mechanical Performance of Multi-Walled Carbon Nanotube and Spiderweb Hybrid Nanocomposites	Session 1	Roswell	369
Tiffany	Miranda Soto	Generation of Plasmonic Au-TiO ₂ Nanoparticles for the Fabrication of Photocatalytic Nanocomposites	Session 2	Greenbriar	324
Manuj	Mishra	Burn Severity Mapping of the Bobcat Wildfire Using Unsupervised Machine Learning	Session 3	Roswell	407
Aubree	Mitchell	Exploring Key Opportunities and Influences for Establishing Careers in Plant Science	Session 2	Lenox	377
Claude	Mounet	AN APPROXIMATION FORMULA FOR THE PERIMETER OF THE ELLIPSE	Session 3	Roswell	357
Yuliia	Nazarko	Stabilizing a Cosmic-Watch Payload with an Arduino-Controlled Gimbal for Balloon Flight	Session 2	Techwood	405
Sebastian	Negron	Platinum–Quantum Dot Hybrid Nanostructures for Improved Photocatalytic Applications	Session 2	Greenbriar	320
Kenzie	Nguyen	Investigating Human Romantic Preferences as a Predictor of Romantic/Physical Attraction to Robots	Session 2	Lenox	383
Jasmine	Norris	Synthesis and Characterization of PVDF/TRFE/NBT Based Multilayer Composite Thin Films.	Session 2	Greenbriar	331
Daniel	Nyamollo	Lifestyle as Data: Unpacking YouTube “Day in the Life” Videos Through Large-Scale Analysis	Session 3	Roswell	338

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Tomas	Ojeda Melendez	Influence of Copper Precursor Salts on the Green Synthesis and Stability of Cu ₂ O–Ag Nanocomposites	Session 1	Techwood	283
Braylon	Orum	Lucilia coeruleiviridis (Diptera: Calliphoridae) as a primary colonizer in Alabama	Session 2	Greenbriar	354
Ian	Passalacqua Montes	ZnO-Ag Doped Nanoparticles with Antimicrobial Properties for Food Safety Applications	Session 1	Roswell	370
Albert	Pena-Charrez	Machine Learning Approaches to Detect Burn Perimeter of Wildfires	Session 3	Roswell	334
Anisa	Phillip	Analysis of Neuronal Staining Patterns at Different Times of the Day-Night Cycle	Session 4	Greenbriar	376
Khalfani	Powell	Isolation and evaluation of Lactobacillus from Nile tilapia for probiotic use in aquaponic fish feed	Session 3	Kennesaw	303
Bliss	Quant	Advancing STEM Identity Through Makerspaces at Historically Black Colleges and Universities	Session 2	Lenox	384
Kerianalee	Rivera Cruz	Sex-Specific Differences And The Role Of Gut Microbiota In Alcohol Tolerance Of Drosophila	Session 3	Kennesaw	304
Ray	Rivera-Brignoni	Strengthening Aluminum Alloys Reinforced with Cerium, Silicon, and Niobium Diboride Nanocomposites	Session 1	Roswell	371
Kelcei	Rivers	Development of a Stronger Biodegradable Plastic Using PHBV and Lemongrass Derived Carbon	Session 1	Roswell	372
Roberto	Rodríguez Lozada	Relating Adverse Childhood Experiences to Social Support and Depression Levels in NICU Mothers	Session 2	Lenox	385

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Katarra	Rogers	Role of Phospholipase A2 on replication of Jaagsiekte Sheep Retrovirus	Session 3	Kennesaw	302
Marimel	Rolón Rivera	ZnSe Nanosensors for Low Cost and Selective Detection of Heavy Metals	Session 2	Greenbriar	325
Riva	Sarkar	Community Composition and Toxin Potential of Biofilms on Microplastics in the Occoquan River	Session 4	Lenox	352
Leah	Saunders	HEALTH OF COASTAL WETLANDS: EVALUATING THE EFFECTS OF SEA LEVEL RISE ON VEGETATION PRODUCTIVITY	Session 4	Lenox	353
Sebastian	Seda	The hazards of e-scooter fires and their implications for public safety	Session 2	Techwood	399
Juliane	Simmons	Exploring the Connection Between NUAKE and 14-3-3zeta in Muscle Tissue	Session 4	Techwood	296
Parmesh	Thakoordial	Improving Lentiviral Transduction of Hematopoietic Stem Cells with Liproxstatin-1	Session 2	Kennesaw	293
Mia	Thompson	Optimized Mo ₂ Ti ₂ C ₃ -Polyaniline Composites for High-Energy-Density Supercapacitors	Session 1	Roswell	373
Isaiah	Thompson	Understanding Visual Deception: An Eye-Tracking Analysis of Dark Patterns in Phishing Emails	Session 2	Techwood	400
Gabriela	Torres	Metal-Doped Tin Oxide Nanoparticles for Enhanced Solar Cell Efficiency	Session 2	Greenbriar	326
Kevin	Torres	Analysis of the Damage Sustained by the NWS Doppler Radar During Hurricane Maria in Puerto Rico	Session 2	Techwood	401

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Kiana	Vigilance	From Pre-Revelation to Aspiration: Characterizing Professional Identity Development in Undergraduate	Session 2	Lenox	386
Brooklynn	Vincent	Long-term survival and mortality risk in Haiti’s first pediatric HIV ART cohort	Session 3	Roswell	358
Arturo	Whipple	And the Beat Goes On : Leveraging Acoustic Waves for accessible table-top Quantum Physics	Session 2	Techwood	389
Brandon	Williams	Influence of Soil Chemistry and Chlorophyll on Soybean Growth and Reproduction	Session 3	Greenbriar	315
Calina	Wu Mo	Using Artificial Intelligence to Improve and Desing Antimicrobial Peptides Against Pathogens	Session 3	Kennesaw	305
Dania	Zein	The Impact of Embedding Choices on RNA Velocity Analysis	Session 3	Roswell	339