

2018 ERN Conference in STEM
 Undergraduate Student Poster Presentation Schedule*
 Washington, DC | February 22-24, 2018
 Exhibit Hall A

Session 1: Friday, February 23rd | 10:00am - 12:15pm
 Session 2: Friday, February 23rd | 4:00pm - 6:30pm
 Session 3: Saturday, February 24th | 8:00am - 10:30am
 Session 4: Saturday, February 24th | 11:00am - 12:30pm

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
3	401	Warren	Abrams	University of the District of Columbia	A Review of Challenges and Benefits of Vehicle-to-Grid Technology
3	19	Honour	Adewumi	Jarvis Christian College	A Study of the Effects of a Bioactive Compound, Curcumin on MCF-7 Human Breast Adenocarcinoma Cells
1	165	Gideon	Adu	Claflin University	Metabolomics of Bacillus Thuringiensis Toxin Resistant (BRE) Mutants in Caenorhabditis Elegans
4	20	Bosson-Sora	Ahouti	University of the District of Columbia	Wnt Activation by Cancer-Associated Exosomes
3	1	Tosin	Ajisebutu	Howard University	Determination of Striga-Resistance in Cowpea (Vigna Unguiculata L. Walp) Using Simple Sequence Repeats (SSR) Markers
1	172	Medinat	Akindele	University of Minnesota	Synthesis of 7-dihydroxy Propyl Deoxyguanosine Phosphoramidite for DNA Protein Cross-linking
4	40	Latriscia	Albritton	Alabama A&M University	Isolation and Identification of Bacteria Associated with the Bluegill Fish(Lepomis macrochirus)
1	128	Lensa	Ali	University of Minnesota-Twin Cities	Etiology of Brain Injury in Males Versus Females in a Community Population: Men Take Risks, Both Sexes Suffer Abuse
3	420	Rasidah	Ali	Texas Southern University	Cross-linking Investigation of Recycled Poly (vinyl chloride) with Recycled Cross-linked Polyethylene (XLPE mesh #50)
3	21	Tamirat	Ali	University of Minnesota	The Role of P2X4 Receptors in Prostate Cancer
1	296	Julius	Allen	Delaware State University	Nanoprobe Diffusion in Concentrated Polyethylene Glycol Solutions
3	303	Rajeh	Alsaadi	Pennsylvania State University	Room-Temperature Metal Epitaxy on WSe2

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Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
1	315	Daniel	Angel	University of Texas at San Antonio	Investigating Guided Modes in 2D materials by Near Field Optical Microscopy
4	12	Ibeawuchi	Anokam	Howard University	Dielectrophoretic Separation of Microparticles in Microfluidic Devices
1	336	Shabree	Anthony	University of the Virgin Islands	The Effect of Ion Liquid Gating on Dzyaloshinskii-Moriya Interactions
2	173	Ruth	Anyaechie	Fisk Univeristy	Synthesis of Poly(Mannitol-co- Xylitol Sebacate) (PMXS) Copolymer for Drug Delivery in Tissue Engineering
2	429	Nhicolas	Aponte	Garden City Community College	Measurement of Water Evaporation Rates from Simulated Soil Pore
2	412	Anjeza	Arapi	City College of New York	Assessment of Optical Properties Variation and Discrimination of Aerosol and Cloud with a Multiple-Wavelength Elastic-Raman Lidar in New York City
4	395	Surafel	Argaw	Georgia Institute of technology	Vulnerabilities of Programmable Logic Controllers(PLCs) in Industrial Control Systems(ICS) to Cyber Attacks
1	129	Obinna	Asawabelem	Howard University	Presence of Rib Notching as an Indicator of Cardiovascular Disease in Skeletal samples
3	174	Michelle	Asuquo	Shaw University	Molecular Dynamics Simulations
2	374	Alexandra	Aucoin	Nicholls State University	Modeling and Parametric Studies of Multi-Phase Heat Transfer in Micro-Scale Heat Sinks
2	349	Dukernse	Augustin	Michigan State University	Did the Medicaid Expansion Affect Access to Health Care General Health, and or Smoking among Women of Childbearing Age?
2	162	Christian	Ayon Garcia	University of Wisconsin Whitewater	Constructing a Chronic Neural Ensemble Recording System

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
1	330	Caio	Azevedo	Delaware State University	Ultrasensitive Detection of Methane and Carbon dioxide for Biomedical Applications
2	261	Amarou	Bah	City College of New York	The New York urban Hydro-meteorological Testbed (NY-uHMT): Data Processing and Visualization
1	214	Christopher	Ball	Alabama State University	Micro-LIBS on NIST SRM 610 and 1831
3	421	Devonte	Banner	Norfolk State University	Flexible Hybrid Composite Electrode for Supercapacitor Applications
2	41	Myles	Bartholomew	Xavier University of Louisiana	Anti-Angiogenic Actions of Rare Ketohexoses in a Chick Embryo and Scratch Models
1	130	Madison	Bashford	California State University, Monterey Bay	Temperature Effects on Swimming Kinematics of Foraging Behavior in the Northern Anchovy, <i>Engraulis mordax</i>
2	375	Darius	Bates	Jackson State University	Salvage Larch Lumber: Examining Mechanical Properties for Manufacturing Cross Laminated Timber Panel Inclusion
4	175	Narome	Belus	University of the Virgin Islands	Silenediol and Copper Co-Catalysis in the Addition of Indole to Arylidene Malonates
3	42	Lewis	Bennett	University of the Virgin Islands	Identifying Protein Partners of CFAP69
4	304	Eden	Berga	University of Washington	Luminescence Properties of Monolayer WS ₂ Embedded in a Van der Waal Heterostructures
4	13	Frewoin	Berga	University of Washington	Designing a Humanized Model of Infective Endocarditis to Understand the Initial Disease Stage
3	327	Luanda	Billups	Alabama State University	Analysis of Au Nanoparticles Using Laser Induced Breakdown Spectroscopy

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
4	209	Secolia	Bishop	North Carolina Central University	Hyperbranched Polyglycerol Cross-linked Membranes with Elastin-like proteins for Removal of Crystal Violet Dye
1	297	Joey	Blasco	Stony Brook University	Oxygen Nanobubble Formation as a Mechanism of Thermally Induced Erythrocyte Aggregation
3	2	Petros	Bokretsiou	Fisk University	Expression, Purification, and Characterization of the Heme Uptake Regulator, HeuR
1	105	Ashley	Bonney	Rochester Institute of Technology	Analysis of Moraxella Catarrhalis Biofilm Formation Under Varying pH and Oxygen Concentrations
3	88	Newton	Bosire	Baltimore City Community College	Overexpression Of Carbon Concentration Mechanism Gene Cah1 In Chlamydomonas Reinhardtii For Increased Algal Growth And Oil Production
4	14	Ronquijah	Bowman	Norfolk State University	Amperometric Detection of Dopamine via Noble Nanowires Using Gold
2	316	Marlon	Breaux	Texas Southern University	How Nanotechnology Can Help Cellular Research for Major Diseases
2	43	Tariq	Brown	Central Michigan University	Genetically Encoded Light Sources for Non-Invasive Optogenetics
1	252	Lennon	Bruneau	University of the Virgin Islands	Fast Growing Acropora and Pocillopora Increases Reef Complexity
1	44	Damiesha	Bryant	Philander Smith College	Quantitative Proteomic Analysis of Mice Kidney Reveals an Effect of High Fat Diet on Protein Expression
2	45	Natasha	Bryant	Drake State Community & Technical College	Alternative Antimicrobial Cleansing Solutions
2	265	Summer	Buckley	University of Arkansas at Pine Bluff	The Rice Root Microbiome Project

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2	376	Obeng	Buo	Rensselaer Polytechnic Institute	Mutual Support for Environmental and Cultural Sustainability Through Solar Ink Production in Ghana
2	221	Damien	Burks	Texas Southern University	Test-Bed for Detecting WSNs in Labview via Unmanned Vehicles
3	222	Elise	Burton	Harris-Stowe State University	Big Data Genomics: Designing an Apache Spark-Based Distributed Bioinformatics Pipeline
3	46	Kamaria	Bush	North Carolina Agricultural and Technical State University	Setting up a Bioinformatics Platform for Reproducible and Robust Investigations of Microbial Mutations
2	253	Joseph	Caine	Harris-Stowe State University	The Impact of a Community Garden Project
2	272	Demetris	Calloway	Fort Valley State University	The Fate Of Atmospheric Mercury (Hg) In Ephemeral Wetlands
3	422	Martin	Carrasco-Munoz	Pennsylvania State University	Hall Measurements of Topological Insulators Bismuth Selenide and Bismuth Telluride
1	136	Javier	Carrillo-Cortez	Humboldt State University	Simplified Method of identification of Cuscuta Species Found in North-Central Alabama using PCR-RFLP
2	106	Erin	Cassin	University of Nevada, Las Vegas	Hunting for Holins in the Paenibacillus Larvae Phage Willow Genome
2	47	Diana	Castaneda	California State University, Los Angeles	Mitochondrial Dysfunction in Type 2 Diabetic Skeletal Muscle Cells
3	176	Jesus	Cedillo	Fort Valley State University	Detection of Ethylene Glycol in Aqueous Solutions Through the Use of Gas Chromatography
2	177	Valorie	Chasten	North Carolina Agricultural and Technical State University	Quality Assurance of Polymer Composition in Footwear by Fourier Transform Infrared Spectroscopy and Chemometrics Analysis

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Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
3	275	Ruben	Chavarin	California State University of Monterey Bay	A Comparison of Water Testing between IDEXX Colilert TM and Membrane Filtration
3	178	Shayla	Chavis	North Carolina Central University	Grafting Responsive Polymer Brushes to Graphene's Surface to Increase Solubility
3	371	Amber	Childs-Santos	Howard University	Separation of Micro-scale Entities Using Dielectrophoresis
3	340	Angel	Christopher	Hampton University	Geant4 simulation for Thick Gas Electron Multipliers (TH-GEM)
2	373	Nicohl	Cintron Rodriguez	Universidad Metropolitana Recinto de Cupey	CHF3/Ar Plasma Reactive Ion Etching of LTO Mask to Transfer 2D TMD onto MEMS Device
1	377	Khayree	Clark	Savannah State University	The Impacts of Electricity Generation Mix and Charging Stations on Emission Reduction from Electric Cars
2	378	Uthman	Clark	Tuskegee University	High-Order Numerical Simulation of High Speed Open Cavity Flow Field
1	48	Deja	Clay	University of Nevada, Las Vegas	A Comparison of Three Protocols: Optimal Method to Separate Macrophages from Prostate Tumors
1	350	Bryan	Clayborne	Norfolk State University	Infusing Cybersecurity in Social Statistics: An Exploratory Study at Norfolk State University
1	248	Ariel	Coleman	Virginia State University	Temperature and Moisture Effects on Carbon Cycling in Coastal Forested Wetland, North Carolina
2	95	Ana	Collazo Martinez	Iowa State University	RAS Guanyl Releasing Protein 4 Polymorphisms and Brain Outcomes Across the Alzheimer's Spectrum
2	351	Jared	Collina	Haverford College	Collapsing Bounds and Across-Trial Variability in the Drift-Diffusion Model of Decision-Making

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3	3	Gabriel	Conte Cortez Martins	Miami Dade College	Three-Dimensional Structure Prediction for DNA Replication Initiator in Clostridium Taeniosporum
2	49	Hannah	Contreras	Wellesley College/ MIT	Comparative Effects of Cholecalciferol vs. Calcifediol on Total and Free 25-Hydroxyvitamin D and Parathyroid Hormone
1	317	Tiana	Cooks	Delaware State University	Dark-field Microscopic Study of the Interactions Between Metal Oxide Nanoparticles and Giant Unilamellar Vesicles
1	107	Jose Augusto	Cordero Pacheco	University of Puerto Rico	Development of Mouse Keratinocytes-based Engineered Skin Models for Accelerating Wound Healing
4	22	Melissa	Costa	University of Hawai'i at Hilo	Antioxidant and Anti-cancer Effects of Lā'ī (Cordyline Fruticosa) Extract on Neuroblastoma Cells
2	223	Jahdiel	Couchman	University of North Carolina at Charlotte	Mining Software Repositories for Dynamic Information
3	305	Bennett	Cromer	Pennsylvania State University	Transport Measurements of CVD grown W(S,Se) ₂ under Ionic Liquid Gating
3	50	Simone	Cruz	Hampton University	Do Chaceon Quinquedens Harbor Bacteria in the Hemolymph?
2	108	Aliyah	Curry	Alabama State University	The In Vitro Effects of Alcohol on Exosome Biology
2	413	Michael	Curtice	Central State University	Automated Simulated Acquisition Project (ASAP)
2	318	Aamina	Dandy	Tuskegee University	Detection of Spherical Gold Nanoparticles in Hydrogels with HEp-2 Cells Using Laser Induced Breakdown Spectroscopy
2	276	Kameron	Daniel	New York City College of Technology	Assessment of Lake Water Quality and Quantity Using Satellite Remote Sensing

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2	96	Abraham	DaSilvio	Bethune-Cookman University	Universal Stress Proteins Associated with Glycolysis in Bacteria
3	224	Yahkeef	Davis	Onondaga Community College	On the Accuracy of Facial Recognition Software to Automate Tracking Student Use of Program Resources
2	97	Joshua	Dawson	University of Washington	Comparative Analysis of Smoking-Induced DNA Methylation in Blood versus Lung
4	306	Morgan	Dean	University of Alabama at Birmingham	The Effect of Tissue Scaffold Architecture and Composition of Cell Viability
4	308	Parris	Debrow	Tuskegee University	Formulation and Characterization of Bioinks for 3-D printing
2	51	Carmen	Del Real	Dodge City Community College	A Screen for Genetic Modifiers of Protein Phosphatase 1 in Drosophila Collective Cell Migration
3	423	Jennifer	Delgado	University of Chicago	Effects of Varying Electrolytes in Dye-sensitized Solar Cells (DSSCs)
1	131	Katelyn	Denton	Mississippi Valley State University	Observation of How the Female Body Changes Through Intense Exercise
1	244	Elizabeth	Diaz	University of California of Davis	Molecular Mechanisms and Biogeochemical Consequences of Decomposer Species Interactions During Succession in Ecosystems
2	137	Rita	Dill	Bowie State University	Analysis of Isoflavones in Soybeans using LC-MS and UV Spectral Analysis
4	424	Raji	Dinka	Rutgers University	Mathematical and Experimental Study of Circadian Phase Period Relationship
3	307	Kevin	Dominguez	The City College of New York	Zinc Sulfide Shell Growth on Cadmium Selenide Quantum Dots for Potential Application in Solar Cells

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3	266	Emmanuel	Dorvil	Central State University	Sugarcane Field Residue and Root Allelopathic Impact on Weed Seed Germination
1	379	Nicole	Doughramaji	Kansas State University	Track Based Climbing Robots Using Dry Adhesives and Variable Suspension
2	352	Tasharra	Dozier	Virginia State University	The Relationship between Fish Consumption and Cognitive Functioning
2	337	Eden	Duncan-Smith	Hampton University	Linear Absorption Spectrum of Tungsten Disulfide Atomic Layers
3	23	Torhera	Durand	University of the Virgin Islands	T Cell Immunoglobulin and Mucin Protein 3 Involvement in Galectin-9-Induced Apoptosis of Exhausted T Cells
1	52	Karen	Ebenezer	Hunter College at the City University of New York	Assessing the Presence of Functional Trypanosome Lytic Factors in Human Breast Milk
3	284	Omoikhefe	Eboreime	Texas Southern University	Walk-Through Metal Detectors and Stadium Contraband
3	402	Katrina	Eccles	Tennessee Technological University	Probabilistic Analysis of Power System Stability Under Solar Power Variability
4	179	Taylor	Edwards	Alabama A&M University	Preparation and Spectral Studies of Cyclopentadienyl Titanium (IV)Tris Alkylenedithiophosphate Complex
2	219	Tracy	Edwards	Hampton University	Identification of Breast Cancer Predisposition DNA Repair Variants using the Cancer Genome Atlas Database
2	380	Ayoub	El Fandalaoui	Valencia College	3D Designed and Printed Part For a Motorcycle
2	225	Joy	Elias	Morgan State University	Automatic Classification of Figures in Biomedical Literature Based on using Machine Learning (SVM and Deep Learning) Towards Effective Retrieval

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2	53	Charity	Ensor	Baltimore City Community College	Carbonic Anhydrase Enzyme Overexpression to Increase Cell Growth in Algae
3	341	Sergio	Escalante	Virginia Union University	Comparison of Structure Functions F ₂ of Nucleon/Symmetric Nuclei to Protons
3	226	Joel	Evans	Winston-Salem State University	Dynamic Problem Support in a Course Gamification System
1	338	Ananda	Ewing-Boyd	Hampton University	Heterostructure Atomic Layers for Biomedical Sensing
4	285	Jonathan	Fabish	North Carolina A&T State University	Supervised Principal Component Regression in High Dimensional Data
1	180	Jonalyn	Fair	Southern University and A&M College	The Study of Electrochemical Durability of Carbon-Supported Pt Catalysts For Fuel Cell Applications
2	181	D'Lauren	Falkner	Xavier University of Louisiana	Efficient Dual-Site Carbon Monoxide Electro-Catalysts via Interfacial Nano-Engineering
1	381	Cyron	Ferguson	FAMU-FSU College of Engineering	Improving the Drive System of Dexter 2.0 SCARA-Based Additive Manufacturing System
1	138	Sarah	Fernandes	Bowie State University	Analysis of Fatty Acid Methyl esters (Fames) in Soybeans using Gas Chromatography With Flame Ionization Detection (GC-FID)
2	139	Francisco	Fernandez	California State University San Marcos	Functional Characterization of the Nitrate-induced Glutaredoxins in Arabidopsis Thaliana
1	364	Irma	Fernandez	University of California Irvine	Improving trans-Cyclooctene Reactivity on Antibodies for Molecular Imaging
3	54	Anayah	Ferris	Univeristy of the Virgin Islands	Making Blood Ex Vivo: Erythropoiesis from Human Embryonic Stem Cells

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3	55	Shanice	Fezeu	Benedict College	Chimeric Construction and Gene Expression of Butelase (B1) and Viola Uliginosa Plant (Vu)A
3	182	Tavia	Fitzpatrick	Texas Southern University	Computational Chemistry: Active Metal Catalysts for the Synthesis of Urea
1	109	Emmanuel	Flores	California State University, Fresno	The Effect of Non-Potable Water on the Fecal Microbiota of Herbivores in the African Adventure Exhibit at the Fresno Chaffee Zoo
4	217	Alicia	Fontenot	Texas Southern University	Health Risk of Oral and Inhalation Exposure to Toxic Chemicals
3	282	Mikol	Forney	North Carolina A&T State University	Analyze Heavy Rainfall Ingredients Using Statistical Models on the Weather Forecast Simulation Data
3	277	O'Neilia	Francis	Kennesaw State University	Effects of Wastewater and Combined Sewer Overflows on Water Quality in the Peachtree Creek, Atlanta, Georgia, January 2015-December 2015
1	264	Angel	Franco Arzate	California State University, Bakersfield	Detection of Coccidioides spp. a Fungal Pathogen in Soils Collected Around Twentynine Palms, CA
1	56	Isnalvy	Fuentes	Onondaga Community College	Assessing Age-Specific Differences in Ethanol Sensitivity in Transgenic Lac-Z Rats
4	396	Rody	Fwamba	Prairie View A&M University	Personalized Detection of Air Pollution Using Smart Phone Paired Sensors
2	57	Maya	Gaines-Smith	Hampton University	Identifying the Critical Amino Acids Within the Immunoglobulin Domain of Human Peroxidase Necessary for Crosslinking of Basement Membranes
1	140	Elizabeth	Gamillo	Alverno College	Arabidopsis Thaliana Genes, SPDS1, and PLC4 Have an Effect on the Cadaverine Response Pathway
2	183	Mark Kevin	Garcia	University of Washington-Seattle	The Effects of Silane Layers on the Degradation Pathways of ZnO of Hybrid Inorganic-Organic Perovskites

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1	365	Patricia	Garcia	Florida International University Honors College	Designing And Characterizing Fibrin Microthread Composite Layers
2	382	Yonatal	Garcia	Garden City Community College	3D Printed Interchangeable Portable Electrical Generator
4	267	Michelle	Garcia-Mendoza	Valencia College	DNA Barcoding Plant Species
1	383	Joshua	Gaston	Tuskegee University	High-Resolution Computational Modeling of High-Speed Open Cavity Flow
2	141	Baraka	Gathere	Bowie State University	Metabolite Analysis and Comparative Study of Medicinal Plant Azadirachta Indica (Neem) and Related Species Melia Azadirach from Kenya
4	24	Amina	Gauff	Delaware State University	Oxidative Stress in MCF-7 and MCF-7/CD44s Breast Cancer Cells
3	403	Haregot	Gebreyesus	Benedict College	Designing a Graphical User Interface for Fall Identification System
2	384	Ahmed	Gesalla	Iowa State University	Micro Underwater Vehicles Propulsion Via H2O2 Decomposition by Using Carbonized Wood Embossed with Pt Nano-Urchins as Catalyst
3	286	Joel	Goddot	Virginia State University	Uniform Stabilization of a Nonlinear Fluid-structure Interaction Model to a Non-trivial Equilibrium
2	227	Ian	Goetting	New Mexico State University	Examination of Software Simulators for Modeling the Operating System Friendly Architecture
4	397	Joseph	Gonzalez	UCI	Light-Finding Behavior Implementation in Search and Rescue Robotics
2	249	Leandra	Gonzalez	Florida International University	The Effects of Early Snow-melt on the Pollination and Seed Production of Delphinium Nuttallianum

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3	184	Amanee	Gordon	Tuskegee University	A Facile Method for the Conversion of Microcellulose to Nanocellulose for use in Fabrication of Cellulose-based Nanocomposite Materials
2	185	Tione	Grant	University of the Virgin Islands	Identification of Polycyclic Aromatic Hydrocarbons in Particle-Phase Vehicular Emissions
3	186	Briana	Graves	Winston-Salem State University	A Rapid Entry into Thioflavanones via Conjugate Additions of Diarylcuprates to Thiochromones
1	142	Tierra	Green	Dillard University	The Contribution of Catalase System of the Pathogenicity of Pseudomonas Syringae, the Causative Agent of Tomato Bacteria Leaf Speck
4	287	Faith	Grice	Texas Southern University	On the Solutions of $x_{(n+1)} = f(x_n)/x_{(n-1)}$ and $y_{(n+1)} = F(y_n) - y_{(n-1)}$ Where f and F are Max Functions
3	228	Erika	Gutierrez	California State University, San Bernardino	A Low Cost Agile Robot for Outdoor Collectives
2	328	Amanda	Guy	Virginia Union University	Deployment of the Vaisala AWS 310 PWD 22 to determine air quality at Virginia Union University
1	132	Petra	Guzman	California State University, Los Angeles	Impairment of Angiotensin-II Signaling Pathway Leads to Decrease of HIF-1a in Type 2 Diabetes
2	229	Hana	Hailu	Benedict College	Designing a Game System to Embed Educational Questions and Measure Self-efficacy
3	288	Harmonie	Hanley	University of the Virgin Islands	The White Plague: A Glimpse Into the Future
2	98	Nadia	Harerimana	College of the Atlantic	Investigation of Causes of Meiotic Arrest in the Sertoli Cell-Specific Androgen Receptor Knockout Testes
3	187	Akeena	Harper	Voorhees College	Developing a Method for Arsenic Analysis in Sulfidic Waters using Liquid Chromatography and Mass Spectrometry

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3	25	Cayla	Harris	Jackson State University	The Synergistic Effects of Veronia Amygladina and Cisplatin on HELA E6/E7 Protein Cells
2	268	Keyonna	Harris	Harris-Stowe State University	Acarodomatia on Missouri Grape Species (Vitis, Vitaceae)
2	110	Justin	Harrison	Alabama State University	Liposomal Encapsulation of an Anti-cancer Drug
3	4	Nena	Hawkins	University of Mississippi	Comparison of Two Commercially Available DNA Extraction Kits to Mitochondrial DNA from Modern Teeth
1	319	Wagneci	Hawley	Norfolk State University	Adhesion Study of SnO ₂ Nanorods on rGO-Covered Stainless Steel Substrates as Anode Electrodes for Optimized Charge-Discharge Cycling Life Stability in Li Batteries
4	259	Alisha	Helm	Central State University	Hydraulic Fracturing: Ohio Appalachian Shale Production and Its Environmental Impacts
3	89	leasha	Henderson	Harris-Stowe State University	Leaf Shape Analysis of Closely Related Species in Passiflora Subgenus Decaloba (Passifloraceae)
4	398	Kiana	Hermes	Texas Southern University	The Epidemic Cyber-Attacks: Understanding How Security Against Works
1	331	Juan	Hernandez	Kansas State University	Can the End-of-Chapter Questions in College Physics Textbooks Tell Us if Students Can do Physics?
2	99	Vanessa	Hernandez	Dodge Community College	Using CRISPR/Cas9 Genome Editing to Study MicroRNA Strand Selection
3	58	Taylor	Hill	University of Arkansas at Pine Bluff	Plant Cell Secreted Growth Factors Targeted to Ex Vivo Production of Red Blood Cells from Hematopoietic Stem Cells
1	385	Christina	Hoffman	University of Maryland - Baltimore County (UMBC)	Additive Manufacturing of Mini Wind Turbine Smart Blades for Low-Power Applications

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2	143	Tiffany	Hopkins	Harris-Stowe State University	Photosynthetic Pigments in Drought Stressed vs Non-stressed Oryza Sativa
3	426	Javis	Howard	Tuskegee University	Temporal Flow Characteristics of a Resonance Enhanced Microactuator Nozzle
1	111	Sarah	Hsieh	Johns Hopkins University	Innate Immune Effector Source of Efficacy of an Antibody that Targets the Gram-Negative Bacteria Acinetobacter Baumannii
3	283	Jiehao	Huang	New York City College of Technology	Using Multiple Metrics to Analyze Trends and Sensitivity of Climate Variability in New York City
4	278	Gina	Humphreys	Savannah State University	Determining Gulf Stream Variability using a Comparison of in Situ Mid-water Temperature and Satellite-derived Sea Surface Temperature
3	59	Joshua	Hurssey	Mississippi Valley State University	Evaluation of Bone Marrow and Subcutaneous Fat in Ovariectomized Rats Following Sustained Delivery of Estrogen or NPY - 1Receptor Antagonist
3	230	Zaire	Husband	University of Arkansas at Little Rock	Inventory Management with Snipe-It
1	60	Onyinye	Ihearahu	Bowie State University	Using DNA Barcoding Technique to Authenticate Yam Flours Imported to the United States from Other Countries
3	26	Katelyn	Irons	Jackson State University	The Therapeutic Effects of Veronia Amgdalinia on the Inhibition of Growth of Cervical Cancer(HELA)Cells
1	144	Jordan	Iverson	University of Arkansas at Pine Bluff	Phenomics Study of Arabidopsis Lines Over-expressing Genes in the Myo-Inositol Pathway to Ascorbate under Water Deficit Stress
1	188	Andre	Jackson	University of West Georgia	Electrochemistry of Phenolic Antioxidants
2	231	Antoinette	Jackson	Alabama A&M University	The Democratization of Machine Learning in the Cloud

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3	27	Aswad	Jackson	Tougaloo College	Lipopolysaccharide (LPS)-induced Upregulation of Pro-inflammatory Interleukin 1 Beta (IL-1 β) is Abrogated by Flavonoids in Mouse Macrophages
2	353	Katrina	Jackson	Virginia State University	The Effects of Dental Amalgam Fillings on Cognitive Functioning
1	354	Latia	Jackson	Virginia State University	Community Participatory Research: Diversity in Environmental Stewardship
2	145	Lian	Jackson	University of Maryland Baltimore County	Overexpression of Calvin Cycle Enzyme Fructose-Bisphosphate Aldolase to Increase Algal Growth Rate
2	386	Malcolm	Jackson	Prairie View A&M University	Using Student-Generated Screencasts in Freshman Mechanical Engineering Class
1	166	Symone	Jackson	Fisk University	Biophysical Studies of the RAGE Antagonist Peptide
2	241	I'ran	James	Elizabeth City State University	Hunting for SNPs: The Genomic Distribution of False Positive and Negative Variant Calls
3	269	Myra	James	Iowa State University	Comparing the Effects of Restricting Irrigation on Diascia and Lobelia Growth and Development
4	289	Mackendy	Jean Charles	North Carolina A&T University	Sentiment Analysis of Political Opinion Using Healthcare Tweets
1	146	Jeremiah	Jeffers	University of Arkansas at Pine Bluff	Producing and Studying Stilbenoids
2	189	Malcolm	Jeffries	Winston-Salem State University	Synthesis of Thiochromanone via Conjugate Addition of Thiochromone and Additional Synthetic Applications of 1,4-Adducts
3	279	Jericho	Johnson	Texas Southern University	Monitoring and Mapping the Nutrient and Metal Concentrations in the Greens Bayou Watershed, TX

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1	93	Me'Shae	Johnson	University of Georgia	Metacognitive Regulation in Undergraduate Biology Students
2	61	Shontiara	Johnson	University of Arkansas at Pine Bluff	Neuronal Differentiation For Transplantation Therapy: Role of Matrix Components
2	147	D'Amber	Jones	Fort Valley State University	The Role of Sugars and Acids in Solanum Lycopersicum: Soluble Solids and Aroma Compounds in Relation to Flavor
3	232	Miasia	Jones	Benedict College	Modeling Building Energy Consumption Using Computational Intelligence
2	320	Belinda	Joseph	Valencia College	Hybrid Surface for Contaminant Removal
2	329	Quiannah	Joyce	University of the Virgin Islands	To Be or Not to Be: Identifying an Ultra-long Gamma Ray Burst During Early Instrument Observation
2	112	Sang Wun (Erick)	Jung	University of Southern California	The First Immune System Encoded in the Human Mitochondrial Genome: MOTS-c as an Antimicrobial Peptide
2	233	Benjamin	Kassman	Lewis and Clark College	Errors in Automatic Speech Recognition
3	342	Kalifa	Kelly	Texas Southern University	Dose Measurements of Stray Radiation inside the First Optical Enclosure of Beamline 8-ID-A at the National Synchrotron Light Source-II
3	254	Diamond	Kemp	Virginia State University	GIS Study on Bird Population Diversity and Density in the Vicinity of Raleigh, North Carolina
3	309	Lauren	Kerstetter	Pennsylvania State University	Fabrication and Characterization of Field-Effect Transistors from Large-Area 2D WSe ₂ Films
3	158	Phillicia	Killebrew	Norfolk State University	An Analysis of Factors Contributing to Toxicity of Ammonium Nitrate in Aquatic Organisms

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3	262	Ashley	King	University of Connecticut	Methyl Halides in the Water and Air of Galveston Bay
2	355	Jasmine	King	Jackson State University	African American Emotional Responses to Police Violence
4	263	Malmi	Kiriwandalage	Suffolk County Community College	Mapping Ancient Periglacial Landscapes on Mars
1	387	Nigel	Knights	Howard University	Proposal for Analysis and Mitigation of Erosion in Sloping Soils in Dar es Salaam, Tanzania
1	210	Gabrielle	Kral	New Mexico State University	Building a Wind Erosion Testing Device
4	310	Dion	Lassiter	Norfolk State University	Mesoscale Metallic Network Based Transparent Conducting Electrodes
1	167	Jatauria	Lathan	Dillard University	The Role of Parkinsonism Associated Protein HsDJ-1 in Deglycation Activity
1	113	Christian	Laurent	University of Georgia	Prenatal Exposure to EDCs and High Fat Diet in Adulthood Affects Organs Gender-specifically in Rats
3	311	Chavez	Lawrence	Pennsylvania State University	Ti/Au Contacts to Chemical Vapor Deposition Grown SnS ₂
3	234	Pedro	Ledesma	California State University Dominguez Hills	Energy Efficient Virtual Machine Communication in Fat Tree Based SDN Cloud Data Center
2	114	Deja	Lee	Alabama State University	The Resistance of Nanomaterials in Streptococcus Pneumoniae
1	366	Frederick	Lee	Diné College	Exponentially Embedded Family to Detect High-Frequency Oscillations in Human Tripolar Laplacian EEG

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
3	62	Courtney	Lester	Fort Valley State University	Towards the Functional Analysis of the AtDOF1.3 Transcription Factor in Tomato
4	28	Fayola	Levine	The City University of New York, Hunter College	Generating New shBECN1 C3 Lentiviral Plasmids
3	427	Leavohn	Lewis	Tuskegee University	Supersonic Mixing Characteristics of REM nozzles
4	247	Chi Yan	Li	CUNY New York City College of Technology	Assessing Spatiotemporal Variability in NO ₂ and O ₃ Along the Korean Peninsula Using Remote Sensing and Ground-Based Observations
1	356	Samuel	Liburd	University of the Virgin Islands	Modeling How Humans Assign Emotions to Facial Expressions by Maximum a Posteriori Inference
2	211	Brandon	Liu	California State University, Los Angeles	PEGylation of Metal-Organic Frameworks as Drug Carriers
3	63	Solana	Liu	Emory University	D2 Receptor Agonist Treatment Effects on Microglia Polarization Following Cerebral Ischemia in Mice
4	399	James	Livingston	Savannah State University	Drop Test Simulation Using SolidWorks
3	29	Ranisha	Logan	Jarvis Christian College	Cytotoxic Effects of Silver Nano-particles on MCF-7 Human Adenocarcinoma Cells
4	30	Mashunda	Longmire	Alabama State University	Endosomal Escape of Bacteriophage in MDA-MB 231
3	343	Erica	Lopez	University of Florida	Probing Ferromagnetism in 2D Materials
3	290	Gabriel	Lopez	California State University San Bernardino	The n-Enclosing Voderberg Tile's Cavity Neighborhoods

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2	300	Cristina	Lorenzo-Velazquez	University of Puerto Rico, Mayaguez Campus	Mortar Designs with Fly Ash and Nano-silica for Structural Patchments
1	321	DeJohn	Louder	Tuskegee University	Pullout Computational Simulations to Study the Impact of Varying Degree Carbon Nanotube Functionalization on Crosslinking and Interfacial Properties of Epoxy Nanocomposites
4	301	Kamali	Lowe	Hampton University	Image Processing in Nanotechnology
3	333	Binh	Ly	University of Illinois at Chicago	Surface Energy Prediction Models for Catalytic Gold
2	100	Janae	Lyttle	Spelman College	Gene Inventory Analysis of Cytoskeletal Genes Support the Relationship of Two Major Eukaryotic Supergroups: Amoebozoa and Opisthokonta
4	216	Maat	Mack	Howard University	Phytochemical Screening and Antioxidant Activity of Ganoderma Species in the Central Region of Ghana
4	372	Camille	Marrero	University of Puerto Rico- Mayaguez Campus	Making Biological Sense of Important Genes in Breast Cancer and Their Coordinated Behavior: Preliminary Results
4	291	Hilary	Marrero-Garcia	University of Puerto Rico at Mayaguez	Modeling Vaccination Strategies of Full and Reduced Doses for a Yellow Fever Epidemic in Angola
1	64	Janna	Marshall	Alabama A&M University	The Effects of Vaporized E-Liquids on Human Oral Microflora
3	159	Raveen	Martin	Alabama Agricultural and Mechanical University	Genotoxicity of Select Pesticides
3	292	Erika	Martinez	Texas Southern University	Dynamics of Feedback Loops With and Without Extra Interactions
4	334	Luis	Martinez	California State University San Bernardino	Characterization of Paramagnetic & Piezoelectric Organometallic Material

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2	357	Cristian Eduardo	Martinez-Medina	University of Puerto Rico, Rio Piedras Campus	Puerto Rican Remittances: Understanding Internal Economic Links
2	235	George	Mathis	Winston-Salem State University	Lyrics-based Music Mood Classification using the Apache Spark Platform
1	115	Marie	Mazzeo	Hunter College, The City University of New York	Gene Essentiality in Mycobacterium Smegmatis: Identifying a Potential Drug Target for Tuberculosis
3	404	Larine	Mbabit-Tebit	Delaware State University	Optical Properties Of Germanium-Silicon-Tin-Oxide Thin Films
3	298	Demetrius	McAtee	University of Louisiana Lafayette	Application of Phage Display to Identify Chemotherapeutic Treated Colon Cancer
2	339	Leah	McCabe	Kapiolani Community College	Temperature Gradient Monitor for the ProtoDUNE
2	414	Jameese	McCray	Southern University and AM College	Kinetic Study of Fluoride Removal from Water Using Laterite-Alumina Adsorbent
2	65	Sacha	McElligott	New York University	Secernin-1 is a Novel Protein Found in the Pathological Hallmarks of Alzheimer's Disease
2	388	Dequante	Mckoy	Saint Augustine's University	Non-Invasive Sensing Technologies for Infrastructure Assessment and Health Monitoring
1	358	Nika	McClean	Virginia State University	The Effects of Gender on Body Image
3	190	Macy	McNeil	Xavier University of Louisiana	Superoxide-derived Selective Reduction of CO ₂ to CO at Low Overpotentials in Ionic Liquid
1	212	Sam	Merlus	Tuskegee University	Nanotoxicity Evaluation Of Doped Silicon Nanocrystals

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
2	359	Kendra	Mills	Bennett College	The Impact of Student Achievement on Their Usage of Academic Support Services
4	15	Monai	Mitchell	Clafliin University	An Innovative Method to Generate New Antibiotics against Multiple Drug Resistant Microbes
2	191	Dazcha	Mitchell-Davis	Alabama A&M University	Reactions of Phenyltin(IV) Trichloride with O,O-and Alkylenedithiophosphoric Acids
1	389	Momen	Mohammad	Elizabeth City State University	Structural Design Optimization: Analytical and Simulation Approaches
3	335	John	Montano	California State University San Bernardino	A New Functional Organometallic Material
1	192	Josiah	Moore	Tougaloo College	Using the AMES Spot Test to Determine the Mutagenicity of Novel Breast Cancer Drug Candidates Based on the Alkylation of Substituted Anilines
2	193	Maria	Morales	University of Puerto Rico at Cayey	Pt-Catalyzed Site Selective C-H Oxidation of Amines
1	148	Alex	Moreno	California State University, Los Angeles	A Comparative Study of the Effect of Leaf Cuticle Variation on Water Retention Among Five Costa Rican Rainforest Species in the Rubiaceae
2	149	Nwerebuaku	Mpi	Howard University	The Characterization of Hawaiian Rumex Reproductive Systems
3	293	Marshall	Mullins	Central State University	A One-Dimensional Simulation of Glacier
2	101	Diana	Munguia	Alverno College	Analysis of Argonaute Gene Alg-2 and Alg-5 in Spermatogenesis in C. Elegans
3	405	Jazmin	Munoz	University of Texas at El Paso	Fabrication of Virtual Frisch-Grid Detectors for Large Area CdZnTe Arrays

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3	66	Diana	Najera	Seward County Community College	The Role of Endocytosis in Iron Uptake by Insect Cells
2	116	Shanaliz	Natta	University of the Virgin Islands	Common E-cigarette Flavorings Activate the Nrf2 Antioxidant Pathway in Airway Epithelial Cells
1	127	Nicole	Nazario Bayon	Norfolk State University	Synthesis, Characterization, and Biocompatibility of Nanocellulose
1	215	Kanieka	Neal	University of Maryland Eastern Shore	Dye-sensitized and Innovative Perovskite Solar Cells
4	302	Whitney	Nelson	Hampton University	SecureNano API: A Framework to Secure Healthcare Nanorobotic Applications
1	133	Rajendra	Neupane	Benedict College	Comparison of Toxicity in Human Breast Cancer Cells Following Exposure to Polycyclic Aromatic Hydrocarbons
1	367	Marisa	Ngbemeneh	Columbia University	Therapeutic Variability of Bevacizumab in Non-Small Cell Lung Adenocarcinoma
3	5	Amy	Nguyen	University of Washington- Seattle	Ion Channel's Impact on Pain Sensing Mechanisms in Class IV Sensory Neurons of Drosophila Larval
2	245	Hanh	Nguyen	University of California, San Diego	The Diet of California Sea Lions (<i>Zalophus californianus</i>) Prior to Recent Unusual Mortality Events
4	67	Nhu	Nguyen	University of Washington	Analysis of the Genetic Relation Between CONSTANS and EARLY FLOWERING 3 in Arabidopsis Thaliana
1	360	Nyalok	Nhial	California State University, Monterey Bay	Examining Correlates of Service Use by Race of Homeless Youth
3	194	Genique	Nicholas	University of the Virgin Islands	Promoting Transition Metal Hydride Formation with Visible Light

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Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
3	344	Malcolm	Nicholas	North Carolina Central University	Atomistic Study Mixture at the Silver-Carbon Plasma Interface at Uniform High Temperatures
2	270	Staffon	Nicholas	Delaware State University	Analysis of Gene Expression of Switchgrass (<i>Panicum virgatum</i>) Inoculated with Anthracnose (<i>Collectotrichum navitas</i>)
3	406	Dilnesa	Nukuro	University of the District of Columbia	Design of a Safety Control System to Prevent Injury in Industrial Settings
1	117	Celia	Ochoa	Indiana University-Purdue University Indianapolis	UV Nucleotide Binding Site Photocrosslinking of Antibodies at Various Light Intensities
2	118	Vanessa	Ochs	Alverno College	Bioinformatics Research on Microbes/CRISPRs in Oxygen Minimum Zones in the Pacific Ocean
3	345	Rebecca	Oehler	Washington State University	Photomechanical Effect of Multi-colored Dye Doped Polymers
4	255	Ajibola	Opakunle	Saint Olaf College	Host Plants Interact with Temperature to Determine Climate-induced Developmental Changes in Butterfly Wing Patterns
3	273	Okeoghene	Osevwe	Howard University	Removal of Fluoroquinolone Antibiotic by Photodegradation on Titaniferous Sands
2	322	Habilou	Ouro-Koura	University of Maryland Eastern Shore	Benchtop Photolithography and High Resolution Photomask Design
1	150	Arlese	Owens	Fort Valley State University	Deleting a Fungal Nitrate Transcription Factor Gene in <i>Fusarium Verticillioides</i> using OSCAR Gene Deletion Mechanism
4	312	Antwan	Parker	University of Alabama	3-D Nanocomposite Articular Cartilage Scaffolds
1	256	Granville	Parker	The City College of New York	An Investigation of Spatially-Varying Aerosol Intensity In and Near NYC and the Related Impact on Local Rain Events

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
2	361	Marqus	Parker	Central Piedmont Community College	Epidemic2Viral: A Social Media and Epidemiology Game
1	119	Talisha	Parker	Louisiana State University	Phycocyanin Production in Model Cyanobacteria
3	236	Jaydevsinh	Parmar	North Carolina State University	Lane Detection using Neural Networks
2	274	Kimberly	Patterson-Little	Benedict College	Optimization of the Anaerobic Co-digestion of Food Waste and Used Cooking Oil
2	151	Tyler	Peacock	Harris-Stowe State University	Pollen Diversity of the Lamiaceae Family
3	313	Marvin	Pelzer	Norfolk State University	Optically Tunable Doped Quantum Dots by One-Pot Microwave Synthesis
1	323	Kristi	Pepa	City College of the City University of New York	Electronic Structure Analysis Through Ligation and DFT Calculations of Ultrasmall CdSe Quantum Dots
4	195	Lester	Piri	Alabama A&M University	Synthesis and Characterization of Chlorodialkylidithiophosphate of Tin(IV) Phthalocyanine Complexes
2	102	Marciaj	Pitchford	Harris-Stowe State University	Deciphering the Regulatory Roles of the Transcription Factors Midline and Extramacrochaetae in Embryonic Central Nervous System Development
3	220	Alex	Plumber	Texas Southern University	Sidewalk Development and Research
1	280	Donae'	Poindexter	University of Arkansas at Pine Bluff	Water Quality Assessment at the Grand Prairie Farming & Water Company Irrigation System
1	196	Nia	Pollard	Howard University	Production of a New Mineralizer for Cement Manufacturing

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3	160	Ashleigh	Porter	Fort Valley State University	Effects of Vehicle Exhaust on Mucous in the Developing Rat Lung
2	257	Stephanie	Powdar	Virginia State University	A Correlation between Urban Canopy Cover and Water Quality in James River Watershed
1	134	Dynesha	Powell	Harris-Stowe State University	The Effect of Highly Saturated Fats on Drosophila Behaviors and Viability
3	170	Zari	Preyer	Savannah State University	The Synthesis and UV-Visible Spectral Characterization of Meso-Tetrakis (5-Bromo-2-Hydroxy-3-Methoxy) Porphyrin: A Potential Anticancer Drug
1	68	Jayde	Price	Alabama State University	The Effects of Nicotine on Exosome Composition
2	69	Ciara	Prothro	Onondaga Community College	Effect of Manipulating Dopamine Neuron Activity on Activity Levels in Mice
2	120	Elizabeth	Quaye	University at Buffalo	Curcumin Loaded Silver Nanoparticle as a Novel Anti HIV-1 Therapeutic
2	237	Osniel	Quintana	University of South Florida	Plenoptic Camera Depth Estimation: Determining the Distance to an Object Based on Monocular Images
2	197	Sidrat	Rahman	Onondaga Community College	Greener Synthesis: Characterizing Palladium and Platinum Nanoparticles Using Quercetin Monophosphate
4	70	Alleyah	Ransom	Clafin University	Role of Benzyl Salicylate in the Development of Autism
4	208	Erlin	Ravariere	University of the Virgin Islands	Moisture Content and Antioxidant Activities in Algae
3	31	Sarea	Recalde Phillips	Pennsylvania State University	Combined Effects of TFields and Microtubule-Disrupting Drugs in Inhibiting Glioblastoma Proliferation

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4	71	Morgan	Reese	Clafin University	Effects of Diethyl Phthalate on Developing Fetal Brain Neuronal Cells Lines
2	390	Summer	Reid	Virginia State University	Digital Thread in Design and Manufacturing of Impellers
3	238	Anaiya	Reliford	Howard University	Wireless Network Security: The Use of Spread Spectrum Techniques to Detect and Prevent Intrusion
4	32	Jocelyn	Ricard	University of Minnesota - Twin Cities	The Effect of Candidate Gene CTNNB1 on Hepatoblastoma
1	72	Nia	Riggins	Bryn Mawr College	A Study of Glycoconjugates on Perkinsus Marinus
1	121	Adriana	Rodriguez	Texas Southern University	Evaluation of the Soil and Water Quality of Halls Bayou and its Cytotoxic Effects on Human and Ecological Health
3	198	Sarah	Rodriguez	California State University San Bernardino	Method for Screening New Charge Transfer Organic Ferroelectric Systems
2	425	Victor	Rodriguez	University of Central Florida	A Look at NanoMedicine Clinical Trials
1	368	Yanitza	Rodriguez	University of Puerto Rico at Mayaguez	Studying the Cellular Mechanisms of Epilepsy: Characterization of Cerebral Organoids with PCDH19 Mutation
3	407	Louis	Romero	Hartnell College	Controlling Contact Properties of a Monolayer MoS2 Transistor by Electrostatic Doping
4	314	Patrick	Randomanski	Pennsylvania State University	Synthesis of Thin Film Tin Dichalcogenides by Powder Vaporization
1	168	Jose	Rosales	University of Texas at El Paso	Inorganic Biochemical Aspect on Amyloid- β Peptides

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
3	33	Derick	Rosario	University of Puerto Rico, Rio Piedras Campus	Assessing the Role of Calcium Signaling in Epithelial-Mesenchymal Transition (EMT)
4	199	Abraham	Rotich	Claflin University	Mechanistic Studies of Flavin Dependent Thymidylate Synthase (FDTS)
1	152	Cybrena	Sablon	Bowie State University	Comparative Metabolite Analysis of Azadirachta Indica and Closely Related Species Melia Azedarach
2	122	Fazalath	Sadiq Batcha	California State University Bakersfield	Public Health Concerns and Seasonal Detection of Coccidioides spp, in Joshua Tree National Park, CA
1	123	Dulce	Saenz	Beloit College	Carbon Cycling in Managed Turf and Restored Ecosystems
4	207	Paloma	Salazar	University of Arkansas at Little Rock	Copper-Based Nanocatalyst for Hydrogen Production
3	242	Khayyam	Saleem	Stevens Institute of Technology	A Novel Deep Learning Approach for Abnormal Control Chart Pattern Recognition and Classification
2	415	Rudy	Salomon	Texas A&M University-Corpus Christi	Simulation & Experimental Study of Windfarm Layout Optimization
4	73	Nayeli	Sanchez	Eastern Michigan University	Impact of Microcystin on Pre-Existing Liver Disease
1	391	Rachel	Sanders	Alabama Agricultural and Mechanical Univeristy	Real-Time Monitoring of the Rate of Hydration of Cement Paste
1	369	Anna	Schoonen	University of Delaware	Interaction of Osteoblast-Like Cells with the Micro/Nano-Structure of 3-D Printed Stainless Steel
3	74	Brianna	Scotland	University of the Virgin Islands	Protein Expression of a Novel, Orphan Transporter: Monocarboxylate Transporter 6 (MCT6)

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2	430	Jaylen	Scott	Southern University	Design and Testing of Laterite Bio-Sand Fluoride Removal Column for Water Purification
2	416	Cedric	Selph	Delaware Technical Community College	Electrochemical Gas Sensors Integrated with Autonomous Aerial Vehicles for Wide Geographical Area Sensor Networks
4	75	Jordy	Sepulveda	Hunter College, The City University of New York	Diazoxide as a Protective Therapeutic Against the Neurotoxic Effects of Neuroinflammation Induced by the Cyclooxygenase Product Prostaglandin J2: Relevance to Alzheimer's Disease
3	6	Justin	Sharp	Jarvis Christian College	Effects of Benzofuran-2-Carboxylic Acid Derivatives on UV-Radiation Treated Human Lymphoblastoid Tk6 Cells
1	76	Ryan	Shaw	University of the Virgin Islands	Identifying the Tissue Specific Role for SHP in Preventing Cholestasis
4	34	Trentyn	Shaw	Alabama State University	Resveratrol-loaded Nanodiamonds (RDNDs): A Candidate for Cancer Therapy
3	408	Ayanna	Shorter	Norfolk State University	Temperature and Pressure Dependent Structural and Optical Epitaxial VO ₂ Thin Films Grown by Pulsed Laser Deposition
3	35	Swikriti	Shrestha	Claflin University	Inhibitors of the RAD52 DNA Repair Protein
2	124	Bryan	Sierra-Rivera	California State University, Monterey Bay	The Role of Antibiotics in Modulating Secondary Metabolite Production of Streptomyces Grown in Co-Culture
3	409	Robert	Sifuentes	University of Texas at El Paso	Detector Development and Performance Evaluation of Cadmium Zinc Telluride Detectors
1	200	Taylor	Simmons	Alabama A&M University	The Synthesis, Characterization, and Anti-bacterial Activity of Gold (III)tris dialkyl and Alkylene Dithiophosphate Complexes
3	346	David	Simpson	Alabama A&M University	Remote Detection of Concealed Nitrates Using Raman Spectroscopy

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4	218	Shaquwana	Simpson	North Carolina Central University	Removal of Congo Red Dye Enabled by a Thermal Responsive Membrane
2	77	Christina	Sisliyan	University of Southern California	The Crucial Role of the 20S Proteasome Beta 5 Subunit in the Sexually Divergent Adaptive Response to Oxidative Stress in <i>D. Melanogaster</i>
2	201	Courtney	Small	Fort Valley State University	Discovering a Structure Activity Relationship of New Psychoactive Substances Using Machine Learning
3	281	Cassia	Smith	University of the Virgin Islands	What Is Driving the Observed Changes in Flooding in the Turkey River in Iowa?
1	163	Demmetri	Smith	Virginia State University	Preparation of Video on Racial Justice on Water and Environmental Issue in Milwaukee, Wisconsin
3	250	Elizabeth	Smith	Spelman College	A Novel Method for Analysis of Dissolved Inorganic Carbon Concentration and $\delta^{13}C$ by Cavity Ring-down Spectroscopy
3	202	Hillary	Smith	Harris-Stowe State University	Fat Content in a Typical Meat Serving
1	362	Wynton	Smith	Virginia State University	A Model of Academic Achievement in African American Students
3	294	Kenean	Solomon	Benedict College	Investigation of the Tacoma Narrows Bridge Incident
3	90	James	Sossou	Norfolk State University	Color Preference in Food Selection of Rotifers: Implications for Harmful Algae Blooms
3	36	Joshua	Soto-Ocana	University of Puerto Rico- Mayaguez Campus	The Role of Interleukin-13 in Soft Tissue Sarcoma
3	91	Luisángely	Soto-Torres	University of Puerto Rico-Rio Piedras	Influence of Patch Size and Isolation Distance on Bumblebee Residence

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3	78	K'Lynn	Spivey	Benedict College	Expression of Apolipoprotein III During Flight Histolysis in the House Cricket, Acheta Domesticus
4	79	Jacob	Spriester	CSU Bakersfield	L-asparagine Stimulated Toxin Production in the Model Diatom Phaeodactylum Tricornutum
4	251	Alyssa	Suarez	Humboldt State University	Assessing the Impact of Sea Level Rise on Infrastructure Along the Humboldt Bay
4	16	Mary	Swadener	University of Washington	Exploring the Possible Function of miRNA Gene Promoters in Protein Coding Gene Distal Regulation
4	203	Aaron	Taylor	Texas Southern University	Computation Investigation of Carbonyl and Ammine Gases for the Production of Solid Urea Via 5d Metal Complex
2	153	James	Taylor	Fort Valley State University	Expression, Purification, and Biophysical Characterization of a Secreted Anthrax Decoy Fusion Protein in Walnut Embryos
2	324	Megan	Taylor	Tuskegee University	Gram Scale Surface Functionalization of Nanodiamond
3	7	Paris	Taylor	Louisiana State University	Development of a Tool for Screening Human 15-LOX-2 for Drug Leads
3	8	Skyler	Taylor	Xavier University of Louisiana	Affect of Lead on LINE 1 Endonuclease Activity
1	80	Tyrese	Taylor	Bethune-Cookman University	Placental Expression Levels of Non-Clustered Cell Adhesion Protocadherins
2	81	Xavia	Taylor	Fort Valley State University	An In Vitro Investigation of Cas1 and Cas2 Proteins of the Streptococcus thermophilus CRISPR-Cas Immune System
2	417	Diarra	Thomas	University of South Florida	The Efficiency of Passive Nitrogen Reduction Systems on the Removal of Fecal Indicator Bacteria

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2	154	Deshawn	Toliver	Fort Valley State University	Is the Ethylene Precursor 1-aminocyclopropane-1-carboxylic Acid Involved in Maize Primary Root Growth Regulation under Water Stress?
3	239	Angus	Tomlinson	Montana State University	Representing Musical Structure with Simplicial Complexes
3	37	Bruce	Torres Fischer	University of Hawaii at Hilo	Comparative Extractions of 'Ōlena (Curcuma Domestica)
1	260	Kim	Tran	University of Washington	Simultaneous Nitrogen and Phosphorus Removal from Wastewater by Integrating Anammox, NDAMO and dPAOs in a Combined System
2	418	Jose	Trejo	Wichita State University	Anaerobic Membrane Bioreactor for Sustainable Wastewater Treatment (AnMBR)
2	363	Kelis	Tulloch	Florida A&M University	Amygdala Lesions Leading to Psychopathic Elements
2	164	Catherine	Ubri	City University of New York - Hunter College	Peer Intervention Remediates Social Behavior and Stress Physiology Following Early-life Adversity
2	103	Elizabeth	Umanah	University of Georgia	Expression and Purification of Recombinant Campylobacter Jejuni Proteins in an E. Coli Expression System
2	155	Delecia	Utley	Howard University	Sex Determination in Dioecious Rumex Acetosa
4	17	Virginia	Vaenuku	University Of Washington	Aminoglycoside Toxicity Testing Using A 3D Human Kidney Proximal Tubule Microphysiological System
1	204	Sofia	Valiente Suarez	University of Puerto Rico- Mayaguez Campus	Cobalt-Catalyzed Dehydrohalogenation of Secondary Alkyl Tosylates
1	135	Gabriele	Van Genderen	Fort Valley State University	Neurotoxicity of Sleep Deprivation Associated Cognitive Decline

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3	82	Katherine	Varela	University of Michigan	Proteasome-dependent Regulation of Presynaptic Tomosyn-1 Expression in Homeostatic Plasticity Mechanism
2	104	Yumary	Vasquez	California State University San Marcos	Morphological and Genomic Diversity of the Parasitoid Wasp (<i>Dinocampus Coccinellae</i>)
1	325	Alexander	Vera	Columbia University	Towards High Quality Gate-Defined Graphene
4	83	Kimuel	Villanova	Baltimore City Community College	Expeditious Algal Biodiesel Production by Overexpression of a Low-Carbon Inducible Membrane Protein in <i>Chlamydomonas Reinhardtii</i>
1	213	Regine	Vincent	Indiana University Bloomington	Development of Iron Oxide Based Nanoparticle Vaccines for the HPV-16 Virus
3	9	Sunny	Vuong	St. Olaf College	Identifying Proteins in Alcoholic Fatty Liver Disease
3	410	Viktor	Wahlquist	Binghamton University - SUNY	Design of an Educational Virtual Environment: Effects of a Storm Event on a Small Urban Stream
3	347	Alexzander	Walker	Virginia State University	Development of a High-Sensitivity Compton-Suppressed Gamma-Spectroscopy System
3	94	Jasmine	Walker	Central State University	Substrate Growth Composting to Improve Sustainability of NASA's Food Production System
2	392	Lauren	Walker	Alabama A&M University	Spectral Analysis of Building Sealant Materials: Study of Raman Spectroscopy of Silicones
2	419	Naomi	Walker	Texas Southern University	Spatial Distribution of Metals and Nutrients Along Buffalo Bayou, TX
3	161	Jontravious	Wallace	Fort Valley State University	The Effects of Soluble Epoxide Hydrolase Inhibitor (sEHi) in a Murine Model of Asthma

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1	125	Ezekiel	Wamble	Norfolk State University	Transcriptome of Streptococcus Parauberis in Varying Host Environments
1	348	Kinnon	Ward	Tuskegee University	Human Papillomavirus and Cervical Cancer in Southwest Uganda
1	84	Kiana	Ware	Clafliin University	Effect of Eugenol on Developing Fetal Brain Neurons
4	18	Mahtab	Waseem	Howard University	Chemical Screening of Chemical Compound Modulators of the Vibrio cholerae PTS and Biofilm Formation
3	240	Kyanie	Waters	Mississippi Valley State University	Asserting the Best Programming Language for Novice Programmers
3	92	Harrison	Watson	Jackson State University	Examining Polydora Websteri (Annelida: Polychaeta: Spionidae: mud blister worms) Infestation on Crassostrea virginica to Improve Oyster Farming Methods
2	243	Kira	Wencek	University of Rhode Island	Quantifying Music Complexity Using Topological Data Analysis
2	428	Jessica	Whipple	Kennesaw State University	Examining Engineering Experiences and Attitudes of Wolverine Pathways Participants
4	38	Natalie	White	Alabama State University	Modulation of Hsp70-Mediated Cytoprotection by Resveratrol and Staurosporine in Colon Cancer Cells
3	39	LaTerrian	Wiley	Jarvis Christian College	Study the Cytotoxic Effects of D-Allose on Human Breast Cancer Cells MCF-7
3	10	Ashlee	Williams	Dillard University	Comparison of the Stability and Reactivity of WhiB7 Homologs from Actinobacteria
1	370	Brianna	Williams	North Carolina A&T State University	Mathematical Modeling and Analysis of HIV Viral Dynamics

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
2	85	Charifa	Williams	Hampton University	Red Deep Sea Crabs
2	156	Iran	Williams	Harris-Stowe State University	Floral Biology of <i>Thalia dealbata</i> (Marantaceae)
4	171	Meleq	Williams	Clafin University	Comparative 1H NMR - Based Metabolomic Investigation of African American and Caucasian Smokers
2	126	Selena	Williams	North Carolina Agricultural and Technical State University	Establishing a Combined Phylodynamic and Phylogenomic Comparison of Clostridioides
2	299	Shannon	Williams	Alabama State Univeristy	Decrease Viability of <i>S. Pneumoniae</i> Using Gold Nanoparticles
3	271	Tevin	Williams	Saint Augustine's University	Tropane Alkaloid Biosynthesis and Diversity Within Solanaceae
2	157	Cierra	Wilson	Tuskegee University	Investigating the Relationship Between Stigmasterol and Flowering in <i>Arabidopsis Thaliana</i>
2	326	Monet	Wilson	Alabama State University	3-D Articular Cartilage Scaffolds Based on PVA/PLA Composites
3	411	Paul	Wilson	University of the District of Columbia	Real-time Monitoring of Gene Silencing in <i>Schistosoma Mansoni</i> Snail Host
2	205	Adrienne	Wiltshire	Alabama A&M University	Reactions and Spectral Studies of Cyclopentadienyl Titanium (IV) Tris O, O Dialkyldithiophosphate Complexes
1	393	Asia	Winkler	Virginia State University	Pool Boiling Heat Transfer on Multiple Surfaces
3	86	Sarah	Wong	University of Southern California	Is the Adaptive Homeostatis Response to Oxidative Stress in <i>D. Melanogaster</i> Tissue-Specific, or Is It a Systemic Response?

2018 ERN Conference in STEM
 Undergraduate Student Poster Presentation Schedule*
 Washington, DC | February 22-24, 2018
 Exhibit Hall A

Session 1: Friday, February 23rd | 10:00am - 12:15pm
 Session 2: Friday, February 23rd | 4:00pm - 6:30pm
 Session 3: Saturday, February 24th | 8:00am - 10:30am
 Session 4: Saturday, February 24th | 11:00am - 12:30pm

Session #	Poster #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
3	246	Malika	Wood	Saint Augustine's University	Targeting Lentiviral Integration into the Host Chromosomes via AAV CRISPR-dCas9 System
3	206	Aleah	Wordsworth	North Carolina Central University	Phenyl-Based Perovskites in Solar Cells
4	87	Qiu Chang	Wu	Colorado College	Construction and Characterization of a Noise Rheostat in Human Embryonic Kidney HEK293 Cells
2	394	Brianna	Wylie	FAMU-FSU College of Engineering	Improving Resolution of the DEXTER 1.0 3D Printer by SCARA Arm Redesign
3	258	Louisa	Yang	Kapiolani Community College	A Sustainable Initiative: Island Feedstocks for Biodiesel Production
3	11	Linda	Yarfi	Kean University	Investigating Ubiquitinated Nucleosome Sensors' Co-Localization with Damaged Chromatin and Selectivity for H2AK13-Ub Nucleosomes In Vitro
3	332	Taylor	Yeboah	Virginia Union University	Raspberry Pi's for Sensor Readout
4	169	Maritza	Zaldivar-Lima	University of Washington	Building a Computational Model Using T7 RNA Polymerase for Genetic Circuit Design
3	295	Lidiya	Zewdie	University of Minnesota	The Influence of STN DBS on the Frequency and Amplitude of Tremor in Parkinson's Patients
4	400	Xuebin	Zou	New York City College of Technology	Using 311 as a Proxy for Weather Impacts

*The poster presentation schedule is listed by primary author's last name.