

2018 ERN Conference in STEM  
 Graduate Student Oral Presentation Schedule\*  
 Washington, DC | February 22-24, 2018

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 #	Room	Grad Oral Abstract #	Primary Author First Name	Primary Author Last Name	Abstract Title
3	Marriott Balcony B	51	Dayana	Abdullah-Smoot	Assessment of DNA Damage Response Gene Expression in Normal Lung Cells Post Exposure to Road Dust
4	Marriott Balcony B	61	Adesope	Akinsanya	Mapping and Monitoring Nutrient and Land Cover Changes along the Galveston Bay Texas
3	Virginia B	105	David	Alexander	Studies on a Resonance Enhanced Microactuator Nozzle for High Speed Flow Mixing
2	Virginia A	31	Nadya	Ali	Can Bariatric Surgery Improve In Vitro Fertilization Outcomes in Previously Obese Infertile Women?
4	Marriott Balcony B	94	Albatul	Almushayti	Assessing the Pesticides Residues in Fruits and Vegetables from the Main Supermarket in DC Using GC/MS
2	Park Tower 8228	40	Manal	Alwohaibi	Extraction and Characterization of Nanocellulose from Different Biomass Sources
1	Marriott Balcony A	73	Juan	Arango	Fabrication of Free Standing SiNWs/CNTs Anodes, Suitable for High Performance Lithium Ion Batteries
1	Park Tower 8216	45	Aleah	Archibald	Analyzing Tweet Messages for Cyber Policing: Tracing Drug Substances
3	Virginia B	106	Elias	Arias Nava	Sustainable Biopolymers Manufacturing: Degradation Models
2	Virginia A	32	Diana	Arriaga	Role of Reactive Oxygen Species in Gestational Diabetes and the Impact on the Developing Fetus
1	Virginia A	1	Guleid	Awale	Harnessing Cyclic AMP Signaling for Bone Regenerative Engineering
1	Virginia B	119	Zachary	Ballard	Optimization of Spectral Sensor Performance Using Machine Learning

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Session #	Room	Grad Oral Abstract #	Primary Author First Name	Primary Author Last Name	Abstract Title
3	Virginia B	107	Joshua	Baltazar	Development of P- PD- and PID-Fuzzy SISO Controllers of a Sub-Scaled Multi-Room Building Test-Bed
3	Marriott Balcony A	79	Kory	Beach	First Principles Second Harmonic Generation in Alloyed TMD and BN Nanostructures
2	Virginia B	128	Jasmine	Beckford	Structural and Electrical Property Correlation of Titanium Doped Hafnium Oxide Ferroelectric Thin Film
2	Virginia B	129	Makhes	Behera	Tuning the Electrically Triggered Metal to Insulator Transition in Epitaxial VO <sub>2</sub> Thin Films Grown by Pulsed Laser Deposition
3	Virginia A	20	Courtnee'	Bell	The Role of Exosome Biogenesis in Cardiovascular Disease and Time of Death
3	Marriott Balcony A	84	Angela	Berry	The Collective Dynamics of Processive and Non-Processive Motors
3	Park Tower 8216	97	Corliss	Best	Antecedents of Distracted Driving: Role of Cognitive Failures
4	Marriott Balcony B	65	Kelsey	Bicknell	Understanding Wastewater NO <sub>3</sub> Dynamics in an Arid Irrigation Network using Stable Isotopes
2	Virginia B	104	Calvin	Brown	Smartphone-Based Microplate Reader for Automated Antimicrobial Susceptibility Testing
3	Marriott Balcony A	85	Nicholas	Calvano	Characterization of Al <sub>x</sub> N <sub>1-x</sub> Thin Films for Thermal Detectors
3	Marriott Balcony B	52	Adero	Campbell	Does Nanoparticle Shape Influence the Ability of Bacteria to Evolve Silver Resistance II. Ongoing Studies
2	Virginia B	130	Irving	Cashwell	Ferroelectricity in Physical Vapor Deposited Undoped Hafnium Oxide

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1	Virginia B	120	Md Fahim F	Chowdhury	Coalitional Integration of Wind Turbines via Cooperative Energy Trading In Distributed Power System
1	Marriott Balcony A	74	Robert	Collison	Strong Coupling of Organic Excitons to Plasmonic Surface Lattice Resonances
3	Park Tower 8216	95	Alicia	Cooper	Differences in Non-Cognitive Factors and Study Strategies in High and Low GPA Students
2	Park Tower 8228	36	Terriona	Cowan	Synthesis of Copper Labeled Iron Oxide Nanoparticles for Potential Dual Modality MRI/PET Imaging
3	Virginia A	21	Brennetta	Crenshaw	The Effect of Alcohol on the Biogenesis and Composition of Microglia-derived Exosomes
2	Park Tower 8228	41	Krystal	Cunningham	New Insight into the Materials and Technology of Ancient Cobalt Blue Ceramic Pigments of the 18th Dynasty in Egypt
1	Virginia B	121	Mustafa	Daloglu	High-throughput 3D Tracking of Sperm Cells Reveals Flagellar Beating Patterns and Head Spin
2	Virginia B	131	Samuel	Danquah	High Performance Composite Electrode for Energy Storage Application
3	Park Tower 8216	103	Lauren	Distler	Potable Wastewater Reuse in the Southwest: Understanding Negative Public Perceptions
3	Marriott Balcony A	86	Ricky	Dixon	Quantum Networking Games
4	Marriott Balcony A	87	Dongwi Handiipondola	Dongwi	The TREK/E36 Experiment at J-PARC
1	Virginia A	2	Simone	Douglas	Non-Plasmin Proteases as Destabilizers of Fibrin Based Scaffolds

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3	Virginia A	22	Skyla	Duncan	Modulation of Inflammation Induced by Recombinant MOMP of Chlamydia in Mouse Macrophages by IL-10 is Mediated by Skewing M1 to an M2 Polarizing Macrophage Phenotype
3	Virginia A	23	Timothy	Egbo	Bioremediation of Mercury using Serratia marcescens Isolated from Mercury Contaminated Site
2	Park Tower 8216	66	Juan	Escobar Salsedo	On Local Automorphisms of SLn
4	Marriott Balcony A	88	Bin	Fang	Ultra-broadband Storage in Hot Atomic Barium Vapor
2	Park Tower 8228	37	Demetrius	Finley	Investigation of Nanocellulose-Beads as an Agricultural 'NanoCAB' Nutrient (i.e., Cu, Zi, or Mg) Delivery System
1	Virginia A	18	Apryl	Fitz	Fabrication and Assessment of Highly Flexible and Biocompatible Supercapacitor with Iridium Oxide Coated Gold Nanowires on Polyamide
3	Marriott Balcony B	53	James	Fluke	Characterization of Bacterial Impairment along the Rio Grande near Albuquerque
2	Park Tower 8228	38	Katarena	Ford	Bistable Nucleic Acid Switch Sensor using Square-Wave Voltammetry
3	Marriott Balcony B	59	Shari	Galvin	Evaluation of the Impact of Platinum Group Elements on Opportunistic Pathogens
1	Park Tower 8216	46	Janica	Gordon	Analysis of Mixed Precision Iterative Refinement Method
2	Virginia A	14	Thomas	Hahn	Regulation of Sterol Transport, Synthesis and Autophagy in Response to External Stressors and Aging
3	Virginia B	108	Talia	Harper	Corrosion Performance of 17-4 PH Stainless Steel Processed by Laser-Powder Bed Fusion

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3	Marriott Balcony A	80	Daniel	Hart	Spectroscopic Studies of Dy-Doped TIPb2Br5 and KPb2Br5 for Mid-Infrared Laser Applications
1	Virginia A	19	Vincent	Hembrick	Conversion of Egg and Seashell Waste into a Printable Biomaterial for Dental Tissue Engineering Scaffolds
2	Virginia A	33	Gregory	Herrera Rios	The Effect of Myotonic Dystrophy on Intracellular Calcium Handling and Mitochondrial Function
3	Virginia A	24	Terrell	Hilliard	Accelerating Wound Healing Process using Biomaterials in In vitro 3D Air-lift Skin Culture Model and Fabrication of 3-D Scaffolds for Tissue Engineering Using Wet-laid Technique
1	Virginia A	4	Tanisha	Hinton	Cytotoxic Efficacy of Cameroon Medicinal Plant in the Management of Leukemia
3	Marriott Balcony A	78	May	Hlaing	Modulation Characteristics for a Continuous-wave mid-infrared Quantum Cascade Laser in a Laser-based Atmospheric Trace Gas Sensor at 7.8 $\mu\text{m}$
1	Virginia B	125	Arndreya	Howard	Analysis of Air Pollutant Emissions and Meteorological Impacts and at a Goat Farm Operation
4	Marriott Balcony B	62	Habibur	Howlider	Spatial Distribution and Spectral Reflectance of Heavy Metals in Floodplain Soils of Brays Bayou Watershed
2	Virginia A	8	Jasmin	Hurtado	Short-term Changes in Left Ventricular Dyssynchrony Leads to Congestive Heart Failure
1	Virginia A	5	Grace	Ikenga	Incidence and Mortality Rates of Female Reproductive Cancers in the Mississippi Delta and the United States
2	Park Tower 8228	44	Frank	Ikponmwen	Layered Double Hydroxide Synthesis of Molecularly Imprinted Polymer for Selective Recognition of Drug
1	Park Tower 8216	47	Alexander	Ing	LB-MAP: Load-Balanced Middlebox Assignment in Policy-Driven Data Centers

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3	Park Tower 8216	98	Md Soriful	Islam	Exploring Poverty in Chatham County, Georgia by Gender, Race and Educational Attainment: The Changes from 2010 to 2016
2	Virginia A	15	Noelle	James	Fishing for Genetic Effects on Social Behavior: Viral-mediated Transgenesis in Stickleback Fish
1	Marriott Balcony A	67	Akinwunmi	Joaquim	Strain Engineering to Modify Functional Properties of Piezoelectric Polyvinylidene Fluoride (PVDF) Nanocomposites
2	Virginia A	9	Christopher	Jones	Improving Protein Secondary Structure Topology Matching Using Loop Geometry
3	Virginia A	25	Leandra	Jones	Ethanol Exposure Impacts Exosome Biogenesis of HeLa Cell-derived Exosomes
2	Park Tower 8228	39	Audrey	Kishishita	Effects of Antifreeze Proteins and Their Hyperactive Mutants on Calcite Crystallization
1	Park Tower 8216	48	William	Kluegel	A Realistic Dataset for the Smart Home Device Scheduling Problem for DCOPs
3	Marriott Balcony A	81	Gilbert	Kogo	Thermoelectric Properties of Epitaxial MoS <sub>2</sub> Thin Films
2	Virginia A	10	Akash	Kota	Theoretical Investigation of Surface Stress Profiles on Biological Cells in an Optical Stretcher
2	Virginia B	132	Lihong	Lao	Preparation of Superhydrophilic Wrinkle-free Cotton Fabrics via Plasma and Nanofluid Treatment
3	Marriott Balcony B	57	Blaine	Lary	Correlation of Morphometric Indices and Earthquake Location in the Eastern Tennessee Seismic Zone
2	Park Tower 8228	42	Jovian	Lazare	Binding of Single and Double Methane with Aromatic Hydrocarbons and Graphene

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1	Virginia B	122	Tam	Le	Design and Implementation of a DASH7-based Wireless Sensor Network for Green Infrastructure Monitoring
3	Virginia A	26	Christian	Lee	Anti-microbial Nanobiomaterials for Skin Infections Caused by E-coli
1	Marriott Balcony A	68	Harold	Lee	Doping Studies of P3HT/PCBM with Iodine
3	Virginia B	109	Kin	Li	Fractional-Order System Identification of a Sub-Scaled Multi-Room Building Test-Bed
1	Park Tower 8216	49	Nan	Li	Non-cooperative and Cooperative Joining Strategies in Multi-band Cognitive Radio Networks with Perfect or Imperfect Sensing
3	Marriott Balcony A	82	Kristopher	Liggins	White Light Characteristics of Sodium Borate Glass Doped With Tb <sup>3+</sup> , Sm <sup>3+</sup> , Dy <sup>3+</sup> , and AgO Nanoparticles
3	Marriott Balcony B	58	Ronald	Lipscomb	Crustal Imaging of the Passive Margin along Carolinas through Magnetic and Gravity Anomaly Inversion
3	Virginia B	110	Matlock	Mennu	Diagnostics of Machine Tool Linear Axes for Smart Manufacturing
3	Marriott Balcony B	54	Rachael	Miera	Investigation of Micropollutant Removal by MnOx and GAC using Flow Through Column Experiments
2	Virginia A	16	Montessa	Mitchell	Surveillance and Characterization of Equine Hepaciviridae in East Alabama Herds
4	Marriott Balcony A	89	Sahara Jesmin	Mohammed Prem Nazeer	GEM Detectors for DarkLight Phase I
2	Park Tower 8228	43	Alex	Molina	Novel Vapor Phase Passivation of (100) Germanium Surfaces with HBr

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1	Virginia A	3	Aundrya	Montgomery	Hard Nail Tissue Regeneration: In Vitro Regenerative Engineering Development
3	Virginia B	111	Justin	Moon	Heat Transfer Enhancements through Multiharmonic Surfaces of Internal Flow in Micro-wavy Channels
2	Virginia B	133	Faheem	Muhammed	Dielectric and Magnetic Properties of Nanoparticle Loaded Polystyrene as a Printable, Low-k Hybrid Material
4	Marriott Balcony A	90	Rusty	Mundorf	Transition Metal Doping of Transition Metal Dichalcogenides for the Synthesis of 2D Magnetic Materials
3	Virginia B	112	Alejandro	Najera-Acosta	Management of Spare Components through Survival Modeling
2	Virginia B	134	Julien	Niyogushima	Highly Dense CeO <sub>2</sub> Nanofibers Composite Electrode for Energy Storage Application
1	Virginia A	6	Ebony	Nottingham	Improving Bioavailability of Combination Therapy to Overcome Erlotinib Resistance in NSCLC
2	Virginia B	135	Emmanuel	Ogbole	Experimental Study of CO <sub>2</sub> Effect on O <sub>2</sub> /N <sub>2</sub> Separation Performance of Polydimethylsiloxane
3	Virginia B	113	Seeung	Oh	An Investigation of Neural Correspondence of Human Trust in Automation
2	Virginia A	11	Shawntel	Okonkwo	Identifying the Regulatory Function of Histone Acetyltransferase GCN5 in the <i>S.cerevisiae</i> pre-mRNA Splicing Pathway
3	Virginia A	27	Michelle	Opiri	Effect of Wine Flour Containing Condensed Tannin on Development of Coccidian Oocysts and Parasitic Nematode Larvae on Small Ruminants
3	Marriott Balcony B	55	Andrew	Overbey	The Impact of Methane Exposure on Wellbore Cement Integrity

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3	Marriott Balcony B	56	Keith	Parker	Genotype-phenotype Association Mapping of Complex Traits of Klamath River Pacific Lamprey Using Next-generation Genotyping-in-Thousands by Sequencing (GT-seq) Methods
4	Marriott Balcony A	91	Tanvi	Patel	Beam Particle Tracking for the MUSE Experiment at PSI
1	Marriott Balcony A	69	Frederick	Pearsall	Synthesis and Characterization of Fe doped Single-phase Multiferroic
3	Virginia A	28	Veolanda	Peoples	Examining the Viability of Penicillin-Resistant Isolates of Streptococcus pneumoniae to Functionalized Nanoparticles
3	Virginia A	29	Shannon	Pittman	Geographical variability of the Thanatomicrobiome in Finnish and American cadavers
4	Virginia B	114	Marquese	Pollard	Integrative Additive Manufacturing for Hermetically Sealed Functional Components
3	Park Tower 8216	118	Olgha	Qaqish	African American Male Engineering Transfer Students: A Critical Exploration of Their Pathways, Racial Identities, and Mathematical Identities
1	Park Tower 8216	50	Ryan	Read	Multi-Agent Energy-Efficient Smart Home
3	Virginia A	30	Diana	Richardson	Growth of Keratinocyte Cells on Hydrogels for Tissue Engineering
1	Virginia B	126	Harold	Rickenbacker	Development and Implementation of the Environmental Justice Community Alert Matrix (EJCAM): A Case Study in Pittsburgh, PA
3	Marriott Balcony A	77	Taiquitha	Robins	Centrifugal Separation of dsDNA from an ssDNA Oligomer Mixture
4	Virginia B	115	Salvador	Rojas	A Review of Physical Human-Robot Interaction

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1	Virginia B	127	Ebone-Alexandria	Ross	Net-Zero Water Wash Station for Remote Emergency Response Healthcare Units
2	Virginia B	136	Monee	Roul	Transparent and Flexible Heaters Based on Al:ZnO Degenerate Semiconductor
2	Park Tower 8228	34	Maria D	Santiago	Interactions of Neuronal Calcium Sensor DREAM with Zinc
3	Park Tower 8216	99	Cornelia	Santos	Addressing Chronic Disease in American Indians: Resilience and a Hybrid of Traditional Native Medicine and Western Medicine in Addressing Disease Self-Care
1	Marriott Balcony A	70	Amrit	Sharma	Lead-free Epitaxial Ferroelectric Heterostructures for Energy Storage Applications
2	Virginia A	12	Debresha	Shelton	Assessing the Role of Dopamine Metabolism Machinery, AMX-2 and COMT, in the Regulation of Dopamine-mediated Behavior
1	Virginia A	7	Michael	Shivers	Cytotoxic and apoptotic effects of Medicinal Plant against Neuroglioma
3	Park Tower 8216	100	Sade	Shofidiya	The influence of Mind Wandering and Mental Workload on Distracted Driving
3	Marriott Balcony A	83	Ross	Siegel	Vibrational Properties of Interacting Linear Carbon Chains Inside Carbon Nanotubes
4	Marriott Balcony B	63	Abraham	Smith	The Model Anemone, Nematostella Vectensis, used in Ecotoxicology and Risk Assessment
3	Park Tower 8216	101	Isabel	Solis	Relationship Between Visual Cognitive Flexibility and Social Interactions in Typically Developing Children
2	Virginia A	13	Kendra	Swain	Synthesis of Biomaterial Using Polycaprolactone(PCL) and Polydioxanone (PDO) Nanofiber Scaffolds used for Skin Tissue Engineering

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1	Virginia B	123	Jose'	Tabarez	Thoughts on Home and Building Energy Management Systems for Renewable-Rich Electric Distribution Systems
1	Virginia B	124	Miu	Tamamitsu	Robust Holographic Autofocusing Using Edge Sparsity of the Complex Optical Wavefront
2	Park Tower 8228	35	Chely	Tejeda	Effect of Antifreeze Protein on Temperature-Induced Enzyme Aggregation
4	Marriott Balcony B	64	Kailash	Tilhoo	Assessment of Trace Metal in the District of Columbia Food Hub's Soil
2	Virginia A	17	Mariah	Tolbert	The Thanatotranscriptome: Gene Expression of Male Reproductive Organs After Death
1	Marriott Balcony A	71	Tambre	Tolliver	Synthesis and Characterization of a Tri-Phase Hydrogel Scaffold for Cartilage Restoration
4	Marriott Balcony A	92	Samuel	Uba	Soliton Solution to the Nonlinear Klein-Gordon Equation and It Application In Relativistic Condensed Matter Physics
4	Virginia B	116	Jordan	Ulibarri-Sanchez	Optimization of a Cotton De-Huller Machine
1	Marriott Balcony A	72	Chibu	Umerah	Fabrication of Polycarbonate-Silica Polymer Nanocomposites Layer by Layer Through 3D Printing
3	Park Tower 8216	102	Brittany	Watkins	Gender Differences in the Relationship between Trauma and Cognition
1	Marriott Balcony A	75	Donald	White	Bacterial Nano Cellulose as Reinforcement Scaffolds to Form Mechanical and Thermally Stable Biodegradable Plastics
4	Virginia B	117	Shunafrika	White	Designing a Low-Cost Educational Robotic Arm

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3	Park Tower 8216	96	Samantha	Williams	Patient and Provider Perspectives on Prenatal Gestational Diabetes Care and Postpartum Follow-Up from Federally Qualified Health Centers
3	Marriott Balcony B	60	Amanda	Wilson	Stochastic Discrete Event Modeling to Predict Effects of Surface Cleanings on Viral Infection Risk
1	Marriott Balcony A	76	Kelsea	Yarbrough	Highly Crystalline Nanoflakes WS <sub>2</sub> Heterojunction Photovoltaics for Solar Energy Harvesting
4	Marriott Balcony A	93	Cody	Youmans	Unconventional Superconductivity at Defects in SDW Pnictides

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