

Session #	Room Assignment	Abstract #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
3	Virginia B	109	Warren	Abrams	University of the District of Columbia	Impact of Microgrids and Renewable Energy on the District of Columbia's Commercial Sectors' Energy Consumption
3	Marriott Salon 1	38	Akinyele	Akinsanya	Bowie State University	Privacy Protection for Social Media
3	Maryland C	87	Jorge	Alarcon Ochoa	Rensselaer Polytechnic Institute	Tuning the Poisson Ratio of Porous Graphene by Defects
3	Marriott Salon 1	48	Shenick	Alcine	Howard University	Designing a Weather Station for Wireless Monitoring of Climate Information to Improve Crop Production in Cameroon
3	Virginia B	110	Tilaye T.	Alemayehu	University of the District of Columbia	Unmixing-Based Feature Extraction and Classifier for Hyperspectral Image
3	Maryland C	86	Julius A.	Allen	Delaware State University	Spectroscopy Study of Interactions of Fluorescent Proteins in Polyethylene Glycol Solutions
4	Marriott Salon 1	39	Tayo	Amuneke	Borough of Manhattan Community College, CUNY	Spatial Knowledge Acquisition for the Visually Impaired Using Gamification
3	Delaware A	2	Zoya	Anderson	Stillman College	Identification of inhibitor for protein arginine methyltransferase 4 (PRMT4) by using computer assisted drug design (CADD)
4	Marriott Salon 1	55	Diliorah	Arah	Bowie State University	Work Fitness App in Android
2	Park Tower Suite 8201	83	Nathacia	Arthur	Virginia Union University	Rainfall in Richmond Virginia in Summer 2016
4	Delaware B	76	Kayla	Bailey	Mississippi Valley State University	Nanoparticle-Protein Interactions: A Fluorescence Study of the Binding of Bovine Serum Albumin to Biodegradable Nanoparticles
3	Virginia B	111	Anna	Ballenger	Clemson University	Changing the Cultural Behavior of Electricity Consumers for Demand Response Participation

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3	Virginia B	105	Andrew	Bolding	Virginia State University	Security Breaching Robot
3	Park Tower Suite 8228	26	Yannick	Boni	Alabama Agricultural and Mechanical University	Synthesis, Spectroscopy, Structural and Biocidal Studies of O, O-Dialkyl and Alkylenedithiophosphate Derivatives of Sn (IV) Phthalocyanine Complexes; Crystal Structure of C44H44N8O6P2S2Sn
3	Virginia B	106	Janelle	Boyd	Delaware State University	A Smart Mobile App to Encourage Kicking Movements in Infants At Risk of Cerebral Palsy
2	Park Tower Suite 8201	63	Stacey	Bradshaw	Virginia State University	GIS Used to Identify the Location of Farmers Markets and Community Gardens within Food Deserts
1	Virginia A (Grad)	6	Ken	Brandon	University of Alabama, Huntsville	Quantifying Macrophage Protease Secretion Reveals Variability in Rates, Production, and Stability
3	Delaware A	3	Natasha	Bryant	J.F. Drake State Community and Technical College	Defining the Role of ZIC2 in Human Cancer Cell Cycle Progression
2	Park Tower Suite 8201	58	Obeng	Buo	Rensselaer Polytechnic Institute	The Dynamics of Water Storage Over Lake Eyre, Australia Observed by Satellite Data
4	Marriott Salon 1	49	Keturah	Caldwell	Norfolk State University	Legends of the Brainy Ninja Squad: A Serious Memory Game for Engineering Education
2	Park Tower Suite 8201	125	Margaret	Carolan	Virginia Tech	Removal and Phytotransformation of Benzotriazole in Urban Stormwater with Carex Praegracilis in Bench-scale Constructed Subsurface Treatment Wetlands
4	Park Tower Suite 8205	93	Sydney	Carr	University of Connecticut	Public Support for Female Political Candidates
2	Park Tower Suite 8201	61	Zandria	Chambers	Fort Valley State University	How Does Fusarium Verticillioides Protect Itself From its Own Toxin?
3	Virginia B	112	Alexis	Coates	Georgia Institute of Technology	Employing Gestural Behavior and Visual Cues through Humanoid Robot Platform to Increase Affect Recognition and Learning among Children with Autism

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3	Delaware A	7	Ben	Coleman	Cedarville University	Determination of CcmA Localization in Helicobacter Pylori Through 3D Cell Modeling
4	Delaware A	20	Nirisha	Commodore	University of the Virgin Islands	Identification of Aryl Hydrocarbon Receptor Antagonists with Biological Activity In Vitro
2	Virginia B	117	Tremain	Crutcher	Alabama A&M University	Increasing Solar Panel Efficiency Using Pokeweed Berries
4	Delaware A	18	Paula	Datri	Southern University at New Orleans	Clean Surfaces (Sanitary surface 3-D Imprints) as Antimicrobial Strategy for Common-Use Surfaces Exposed to Human Contact and Microbial Transfer
4	Park Tower Suite 8218	72	Nirja	Dave	University of Maryland	Control of Cardiac Tissue Using Feedback-Based Synchronization
4	Park Tower Suite 8205	91	Lydia	Davis	Tennessee State University	An Investigation of STEM Student and Faculty Experiences at HBCUs
3	Park Tower Suite 8228	27	Monique	De Leon	Florida Memorial University	Noise in Radioactive Series Decay
3	Marriott Salon 1	40	Eliakin	del Rosario	University of the Virgin Islands	Minimizing Decoding Error in Covert Network Timing Channels
3	Marriott Salon 1	50	Phillip	Devreaux	Bowie State University	Collaborative Virtual Environment for Training Emergency Response Officials and Civilians in Big City Using Unity 3D Gaming Engine
3	Park Tower Suite 8228	24	Diarra	Dia	Florida Memorial University	Synthesis, Partial Characterization, and In Vitro Anticancer Activity of Indanocine Analogues Bearing Indanone-Aldehyde Rings Putatively Targeting Tubulin
4	Park Tower Suite 8205	94	Karien	Dixon	Tougaloo College	Testing the Feasibility of Genetic Testing in African-American Women with the Diagnosis of Breast Cancer
3	Maryland C	88	Ricky	Dixon	Mississippi Valley State University	Quantum Bayesian Games

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2	Virginia B	121	Rickie	Dodge	College of Menominee Nation	Solar Energy Electricity Generation: Influence of Seasonal Changes
3	Park Tower Suite 8228	28	Torhera	Durand	University of the Virgin Islands	Total Antioxidant Activity in Virgin Islands Plants
3	Park Tower Suite 8228	23	Brenda	Eap	California State University, Los Angeles	Flowering Transition and Genome Expression Patterns in Arabidopsis thaliana FT and LTP 3/4 Double Mutant
4	Park Tower Suite 8228	36	Cameron	Earl	California Institute of Technology	Developing a Modular Liquid Crystal Elastomer System via an Oxa-Michael Addition Reaction
2	Virginia B	95	Seth	Fair	Delaware State University	Detection of Biochemicals in Human Breath for the Early Detection of Lung Cancer
1	Park Tower Suite 8201	14	Mekiya	Fletcher	Virginia State University	Development of an Assay to Test Green Leaf Volatile Responsiveness of Maize Protoplasts
4	Marriott Salon 1	41	Tarrell	Fletcher	Bowie State University	Industrial Control System Security
4	Delaware B	75	Joshua J.	Fox	Pennsylvania State University	Synthesis and Characterization of Sn(SxSe1-x)2 Ternary Alloy Thin Films for Photovoltaic Applications
2	Park Tower Suite 8201	62	Cecilia	Frias-Flores	University of Puerto Rico-Rio Piedras	Activation of the Bio-char Obtained from the Hydrothermal Liquefaction Process of the Macroalgae O. Obtusiloba for Estuarine Water Restoration Processes
2	Virginia B	96	Farrah-Amoy	Fullerton	Mary Baldwin University	Structural Protein Retention of Decellularized Porcine Liver Tissue
4	Marriott Salon 1	51	Andrew	Garrett	Morehouse College	Evaluating the Effectiveness of Online Computer Science Tutorial Tools Among Urban Middle School Students
1	Virginia B	118	Katy	Gerace	Penn State University	Realizing Atomic Layers of Indium-Based Semiconductors for Novel Electronic Devices

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3	Delaware A	4	Jamiu	Giwa-Otusajo	Morgan State University	Altered Expression of MYH10 in BXPC-3 Pancreatic Cancer Cell Line
1	Park Tower Suite 8201	21	Raeann	Goering	Hamline University	Differential Expression of Maize Memory Genes in Response to Priming and Cold Stress
4	Delaware A	19	Cristina	Gonzalez	California State University, San Bernardino	Cultivation and Detection of Members of Group 4 Aigarchaeota
3	Park Tower Suite 8228	29	Tiara	Harrell	North Carolina Central University	Effect of Concentration on LiquoGel™ Transition Temperature
3	Park Tower Suite 8218	64	Travis	Hayes	Sonoma State University	An Algorithmic Exploration of the Maximum Cut Problem
3	Park Tower Suite 8218	65	Xaimarie	Hernandez Cruz	University of Puerto Rico Mayaguez	Relaxing Assumptions in Evacuation Models Using Survey and Sports Event Data
3	Delaware A	8	Raveen	Hough	University of the District of Columbia	Identification of Hsp70 and Its Client Proteins in the Susceptibility of the Intermediate Snail Host, Biomphalaria Glabrata to the Parasitic Fluke, Schistosoma Mansoni
2	Park Tower Suite 8201	60	Deshawn	Howard	Virginia Union University	Performance Testing for Temperature/Relative Humidity, and Wind Speed Smart Sensors
4	Park Tower Suite 8205	92	Jasmine	Jackson	Jackson State University	A Study of African Americans' Physiological, Psychological and Political Responses to Racially Traumatic Stressful Events
3	Park Tower Suite 8228	30	Mia	Jawor	Western Michigan University	Solvent- and Catalyst-free, Quantitative Protection of Hydroxyl, Thiol, Carboxylic Acid, Amide and Heterocyclic Amino Functional Groups
3	Maryland C	89	Kevin	Jimenez	Farmingdale State College	Selective Growth of High Quality Single Crystals via RF Exposure
1	Park Tower Suite 8201	56	Shaquetta	Johnson	Jackson State University	Influence of Precipitation on Leaf Cutter Ant Atta Cephalotes Vegetation Input and Foraging Behavior

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2	Park Tower Suite 8201	124	Maci	Joseph	Howard University	Neutralization of Fluosilicic Acid from the Production of Phosphoric Acid
3	Marriott Salon 1	52	Ananya	Kadir	College of Saint Elizabeth	Transdisciplinary Data Scholars Development Program
3	Marriott Salon 1	42	Mallek	Kanan	Winston Salem State University	Making Multiple Choice Quiz Interactive Using Mobile Response System
3	Delaware A	9	Corey	Key	Alabama A&M University	Investigating Mechanisms of Action of Environmental Estrogens Using Yeast Genetic Systems
1	Park Tower Suite 8201	57	Millissa	Knight	Virginia State University	GIS for Demonstration of the Importance of Urban Trees in Reducing Storm Water in Appomattox River
2	Virginia B	113	Austin	Koehn	Garden City Community College	A Solar Powered Portable Wifi Hotspot
3	Virginia B	107	Jordan	Lafontant	Howard University	Abu Algorithm: Real-Time Video Processing
3	Park Tower Suite 8228	31	Raquel	Laing	Florida Memorial University	Noise in Radioactive Series Decays
1	Virginia B	98	Joel	Landa	Florida Memorial University	Amplitude and Phase fluctuations in Semiconductor Lasers
3	Maryland C	81	Zachary	Langford	Everett Community College	Deep Crustal Heating of Neutron Stars in an Accreting Binary
4	Delaware B	77	Abigail	Lee	University of Pennsylvania	Improved Performance in Graphene and MoS2 Field-Effect Transistors Using a Boron Nitride Isolation Layer
1	Park Tower Suite 8201	37	Timothy	Lenox	University of Arkansas at Little Rock	Accumulation of Water Soluble Carbohydrates in Stems of Wheat-lines

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3	Park Tower Suite 8218	66	Andre	Lesartre	Colorado School of Mines	Control of Cardiac Tissue Using Feedback-Based Synchronization
3	Delaware A	5	Justine	Lewis	Howard University	Targeting STAT3 to Inhibit Cancer Cell Growth by Genetic and Pharmacologic Methods
2	Virginia B	114	Kyle	Liang	University of California, Los Angeles	Rapid Detection and Quantification of Waterborne Pathogens Using Smartphone Based Fluorescence Microscopy and Machine Learning
3	Marriott Salon 1	43	Samuel	Liburd Jr.	University of the Virgin Islands	A Bioinformatics Approach to Classify Viruses Using a Decision Tree Model
1	Virginia B	99	Ryan	Littlejohn	Virginia State University	Abstract NASA Mining Robot
3	Maryland C	84	Gabriel	Lopez	California State University, San Bernardino	A New Organic Material, Possibly Ferroelectric
2	Virginia B	115	Alicia	Marshall	University of the District of Columbia	Modeling the Effect of Smart Appliances in Energy Reduction in Residential Homes Using GridLab-D
1	Virginia B	100	Phoung	Mata	Savannah State University	Determining Optimal Capacity Utilization and Inventory Levels for a Distribution Center: A Case Study
1	Virginia B	101	Corey	McCollum	Savannah State University	Buckling Analysis of a Square Safety Ladder
1	Virginia B	102	Matlock	Mennu	University of South Florida	Sensor-Based Diagnostics of CNC Linear Axes
1	Virginia B	103	Niegel	Middleton	Savannah State University	Optimal Inventory Levels in Presence of Information Loss: Multi-Echelon Pharmaceutical Cold Chain Perspective
1	Virginia B	104	Michael	Mills	Virginia State University	Design and Optimization of Formula SAE Wheel Assembly

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3	Marriott Salon 1	44	Andrew	Morgan	Youngstown State University	Computer Vision "See and Avoid" Simulation Using OpenGL and OpenCV
4	Marriott Salon 1	53	David	Morrison	Norfolk State University	Legends of the Brainy Ninja Squad
4	Delaware A	16	Yari	Mosley	University of Arkansas at Pine Bluff	Genetic Dissection of the Neural Circuit Underlying Cold Nociceptive Behavior
3	Maryland C	85	Jaime	Moya	New Mexico State University	Experimental Errors in Mueller Matrix Elements of Isotropic Samples
1	Park Tower Suite 8201	15	Cherie	Nelson	California State University of San Bernardino	The Effects of Primary and Secondary Nectar Robbing of <i>Ipomopsis aggregata</i> on Hummingbird Visitation
3	Maryland C	90	Jose	Nicasio	Farmingdale State College	Investigating the tau1 Phase of Cr-Ni-Al for Coating High Temperature Steam Turbines
4	Park Tower Suite 8218	73	William	Noland	North Central College	Modeling Tsunami Run-Up and Draw-Down on the Beach
3	Delaware A	10	Maria	Orozco	Northern New Mexico College	ELS1, a Nucleolar SUMO Protease that Regulates Nuclear Structure
3	Marriott Salon 1	45	Emmanuel	Ossuetta	Bowie State University	Megacity: A Collaborative Virtual Reality Environment for Emergency Response and Decision Making
3	Park Tower Suite 8218	67	DeWein	Pelle	University of the Virgin Islands	Migration of Yellowfin Groupers During Solar and Lunar Periods
3	Park Tower Suite 8218	68	Angelique	Phifer	Savannah State University	Investigating Triangular Numbers by Quadratic Function Along with Sequences and Set Operation
3	Marriott Salon 1	46	Anthony	Powell	Texas Southern University	Tools for Measurement of Attendance in College Classes



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3	Virginia B	116	Kasandra	Price	Howard University	Power Grids with a Focus on Transformers
3	Delaware A	11	Elizabeth	Quaye	University at Buffalo	Methamphetamine Mediated Mitochondrial Dysfunction and Microglial Apoptosis
2	Virginia B	122	Beatriz	Quinones-Colon	University of Puerto Rico, Mayagüez Campus	Characterization of Polymeric Films Prepared by the Layer-by-Layer Technique: An Infrared Variable Angle Spectroscopic Ellipsometry Study
4	Delaware A	12	Raven	Reed	Texas Southern University	Sequencing the Complete Mitochondrial Genome of the Giant Scops-Owl Otus Gurneyi
3	Virginia B	108	Jamaal	Roby	Texas Southern University	Test-Bed for Wireless Rechargeable Sensor Networks via Unmanned Vehicles
4	Park Tower Suite 8228	32	Tarymar	Rodriguez	University of Puerto Rico at Mayaguez	Characterization of Biomasses from Puerto Rico for Their Potential Use as Bio Refinery Feedstock
4	Park Tower Suite 8228	33	Moises	Romero	California State University San Bernardino	A Computational Outlook on Ferroelectricity: Transition State Optimizations and Charge Analysis
4	Delaware A	13	Jelonia	Rumph	Florida Memorial University	Cardiac Fibroblast Functionality Under the Influence of TH2 Cytokines
4	Delaware B	74	Sesegma	Ryzydmaeva	University of the District of Columbia	Sensing of Biomolecules and Cells with Semiconductor Nanowires
3	Delaware A	1	Jonathan	Salas	Binghamton University	A Model for Increased Cocaine Taking in Prenatal Alcohol Exposed Adolescent Rats
4	Delaware B	78	Camilla	Schneier	University of Pennsylvania	Monolayer Molybdenum Disulfide Biosensors
3	Marriott Salon 1	54	Mickell	Sherron	Norfolk State University	Legends of the Brainy Ninja Squad

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1	Park Tower Suite 8201	22	Xavier	Sivels	Virginia State University	Anthropogenic Land Activities and Affects on Dynamics of Marine Phytoplankton Environments
2	Virginia B	119	Robert	Stephenson	University of the District of Columbia	Synchronized High-Speed Video and Infrared Thermometry Study of Bubble Dynamics During Nucleate Boiling of Nanoemulsion
4	Park Tower Suite 8228	34	Sekou	Stuppard	Howard University	Synthesis and Characterization of Novel Sulfanilamides as Potential Chemotherapeutic Agents
4	Marriott Salon 1	47	Desmond	Taylor	Johnson C. Smith University	Recovery vs Preparedness
3	Park Tower Suite 8218	69	Ayana	Tiller	Savannah State University	Using the Power of Mathematical Induction to Conquer to the Two Famous Celebrity Numbers: The Fibonacci and Lucas
3	Park Tower Suite 8228	25	Demasio	Timmons	Morehouse College	Optimization of Imidazopyridine Using a One-Pot Synthesis via Microwave
4	Delaware A	17	Jessica	Tolbert	Clafin University	Identifying Factors Involved in Barrier Insulation within the Mouse T-Cell Receptor Alpha Locus Control Region
3	Park Tower Suite 8218	70	Modesta	Trejo	Texas Southern University	Constructing Periodic Deference Equations of Orders Two and Three
2	Virginia B	97	Jessica	Trinh	University of Washington	Contractility Measurements in Cardiomyocytes from Danon Disease Patients
4	Park Tower Suite 8228	35	Achombom (Jude)	Tunyi	University of Washington	Using Computational Techniques and Simulations to Analyze M+(H2O)n Clusters, Structures and Interactions Using the i-TTM Model and Many-Body Molecular Dynamics
2	Virginia B	123	Christian	Vázquez Rivera	University of Puerto Rico - Mayaguez	Experimental Designed Analysis of Aluminum Welding Fillers Reinforced with NbB2 Nanoparticles
4	Delaware B	79	Zakar	White	Virginia Polytechnic Institute and State University	Photodegradation of Methylene Blue and NADH by Titanium Dioxide (TiO2) Nanoparticles

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1	Virginia B	120	Andrea	Willis	Louisiana State University	Molecular Dynamics Simulation Study to Investigate the Effect of SWCNT Diameter on the Interfacial Properties of Epon Nanocomposites
3	Maryland C	82	Alia	Wofford	Elizabeth City State University	How Does Dense Molecular Gas Contribute to Star Formation in the Starburst Galaxy NGC 2146?
3	Park Tower Suite 8218	71	Isaac	Wright	Savannah State University	Estimating the Correlation Coefficient for Censored Data via Maximum Likelihood
3	Park Tower Suite 8218	59	Elangeni	Yabba	University of the Virgin Islands	A Mathematical Investigation into the Effects of Temperature, Salinity, and Currents on Coral Disease Dispersion
4	Delaware B	80	Yu Ren	Zhou	University of Pennsylvania	Chemical Vapor Sensing with Monolayer MoS <sub>2</sub> Field Effect Transistors