

Session #	Poster #	First Name	Last Name	Institution	Abstract Title
1	71	Corisma	Akins	Grambling State University	Implementation of a Big Data Science Summer Camp for High School Students
2	92	Messaoud	Bahoura	Norfolk State University	CREST CREAM: Education and Outreach Activities
2	24	Sandra	Barnes	Alcorn State University, Lorman, MS	Infusing Evidence-based Instructional Practices into the STEM Curriculum at Alcorn State University
1	1	Shakhawat	Bhuiyan	Jarvis Christian College	Enhancement of Jarvis Christian College Course-based Undergraduate Research Experiences (J-CURE) Program in the Biological Sciences
2	64	Rami Reddy	Bommareddi	Alabama A&M University	Progress on The Design of Nanostructures for Energy Efficient Devices
1	65	Carl	Bonner	Center for Materials Research, Norfolk State University	A Modular Approach to Professional Development Training within the HBCU-RISE Light-Mat Program
2	84	Fred	Bonner	Prairie View A&M University, Prairie View, Texas	Models of Success: Identifying Factors that Contribute to Faculty Production of Minority STEM Graduates: Implications for HBCUs and Beyond
2	2	Eric	Bonsu	Bowie State University	Synthesis of C-2 Functionalized Ribofuranosylpurine Analogues as Potential Antiviral Agents
1	47	Calvin	Briggs	Lawson State Community College	Recruitment, Retention, and Completion of Underrepresented Minorities in STEM Career Pathways
1	85	LaTanya	Brown-Robertson	Bowie State University	Infuse Data Science and Analytics (DSA) into Undergraduate Courses and research at Bowie State University(BSU)
2	48	Mingchao	Cai	Morgan State University	Fast Poroelastic Solvers based on FreeFEM++
1	49	Abhinandan	Chowdhury	Savannah State University	Numerical Solution of Gardner Equation by Modified Exponential Time Differencing Method.
2	36	Shanta	Chowdhury	Prairie View A&M University	Deep Learning for Named Entity Recognition on Electronic Medical Record
1	25	Tameka	Clemons	Spelman College	Impact of a UCP2 Inhibitor on Amylin in Pancreatic beta cells

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Session #	Poster #	First Name	Last Name	Institution	Abstract Title
1	93	Charles R.	Colen, Jr.	University of Arkansas at Pine Bluff	UAPB STEM Academy Model
2	26	Kimberley	Cousins	California State University, San Bernardino	Widening the STEM Pipeline through CREST Funded Research and Mentoring
2	72	Antonino	Cucchiara	University of the Virgin Islands	Enhancing Astronomy Education and Research in the U.S. Virgin Islands
1	73	Kausik	Das	University of Maryland Eastern Shore	Holistic Development of Undergraduate Students - Concept Cartoons to Authentic Discovery
1	37	Debzani	Deb	Winston-Salem State University	Integrating Bigdata and Cloud Computing Topics at Upper Level CS Courses
1	3	Seema	Dhir	Fort Valley State University	Evaluating the Impact of Course Redesign on Student Success in Biological Sciences at FVSU
2	74	Mario	Díaz	The University of Texas Rio Grande Valley	The TOROS Follow-up Program for the LIGO/VIRGO O3 Observational Campaign
2	66	Liz M.	Díaz- Vázquez	University of Puerto Rico Rio Piedras	Effective Science Communication: An essential Tool to Engage and Prepare Students for STEM Careers
2	38	Darina	Dicheva	Winston Salem State University	Increasing Student Engagement in STEM Courses through Gamification
2	94	Tarik	Dickens	High-Performance Materials Institute, Florida A&M University-Florida State University College of Engineering	Process Viability of 3D Printed Solar Cells
2	4	Tandabany	Dinadayalane	Clark Atlanta University	HBCU-UP TIP: Introducing Computational Chemistry and Computational Biology for Undergraduates
1	67	Tandabany	Dinadayalane	Clark Atlanta University	Binding of Histidine and Proline with Graphene in Gas and Aqueous Phases: Computational Study
1	79	Celia	Dodd	Fort Valley State University	Implementation of Toxicology Instruction, Research, and Career Panels at Fort Valley State University
1	95	Jerald	Dumas	Hampton University	Determining Solid Dispersion Effects on the Curing Profile and Mechanical Properties of Polymeric Composites

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2	50	Nicola	Edwards	Delaware State University	Cyber Infused Mathematics Initiative: Mathematics Teaching Institute Year 3
2	96	Stephen	Egarievwe	Alabama A&M University	Development of Active Learning Units for Nuclear Engineering
1	5	Maira	Goytia	Spelman College	Antimicrobial Resistance and Biofilm Formation by Commensal Neisseria Species
1	27	Fenghai	Guo	Winston Salem State University	Development of Carbon Carbon Bond Formation Reactions in N, S – Heterocycles Synthesis
1	51	Anna	Harris	University of Arkansas at Pine Bluff	Targeted Infusion Project: Infusion of Cyber, Research, and Peer-Led Team Learning to Enhance Minority STEM Majors' Mathematics Performance
1	97	Leila	Hashemi Beni	North Carolina A&T State University	UAV Data Processing for Floodplain Mapping
1	43	Andrij	Horodysky	Hampton University	Effects of Acidification on the Neurosensory Biology of red drum (<i>Sciaenops ocellatus</i>)
2	52	Sanjukta	Hota	Fisk University	Infusion of Computational and Biological Content into Fisk University's UG STEM Curriculum
2	98	Kerry	Howe	University of New Mexico	CREST Center for Water and the Environment
2	44	Dafeng	Hui	Tennessee State University	Responses of Terrestrial Ecosystems to Global Change and Human Activities
2	6	Raphael	Isokpehi	Bethune-Cookman University, Daytona Beach, Florida	Outcomes of the Targeted Infusion Project: Developing Quantitative Expertise in the Undergraduate Biology Curriculum (QEUBiC)
1	75	Caesar	Jackson	North Carolina Central University	A Dramatic Impact on Student Outcomes from the DREAM STEM Project at NCCU
1	53	Shaik	Jeelani	Tuskegee University, Tuskegee, AL	Preparing Interdisciplinary Minority Material Scientists and Engineers of the Future
2	76	Narbe	Kalantarians	Virginia Union University	Subatomic Physics at VUU

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1	45	Amanda	Kaltenberg	Savannah State University	Analysis of Front Detection Methods to Identify Gulf Stream Front Crossings from in-situ Acoustic Mooring Methods
1	99	Ovais	Khan	Tuskegee University	Direct Numerical Simulation for Shock/Turbulence Interaction with Applications to Supersonic Cavity Flows
2	100	Carrie	Kouadio	University of California, Merced	NSF-CREST Center for Cellular and Biomolecular Machines
2	68	Harold	Lee	Norfolk State University	N-doped Organic Acceptors for High Performance Electronics
2	80	Mark	Lee	Spelman College	Postdoctoral Fellows Are Productive Scientists in Training at a Liberal Arts College
2	28	Jerzy	Leszczynski	Jackson State University	Interdisciplinary Nanotoxicity Center
2	86	Ometha	Lewis-Jack	Bowie State University	The Effects of Collaborative Project-Based Learning on self-efficacy, Academic Success, and Persistence Rate
2	54	Qingxia	Li	Fisk University	Assuring the Integration of Mathematics into Biology through a Peer-led Learning Community
1	29	Lee	Limbird	Fisk University	Building Quantitative and Computational Life Sciences at Fisk University
1	7	Khalid	Lodhi	Fayetteville State University	Time Course Human Blood Identification and Human Autosomal DNA Typing from Bed bugs, Fed on Human Female, Male, and Pooled Blood
1	55	Jessica	Lopez	St. Philip's College	STEM Enrichment by Design (STEMed) Project Preliminary Results
2	56	Yongjin	Lu	Virginia State University	Pullback Dynamics of Navier-Stokes Equation
1	87	Ayanna	Lynch	Bowie State University	#MeToo: Perceived Cultural Differences in the Current Feminist Movements
2	8	Keerthi	Mandyam	Alcorn State University	Genomic Comparisons of endophytic Periconia from North American and European Grasslands

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1	101	Patrick	Mensah	Southern University and A&M College	Next Generation Multifunctional Composites Crest Center-Phase II
1	9	Alex	Mercado-Molina	Florida International University	Resource Consumer Relationship along a Gradient of Water Flow
2	10	Holly	Miller	Delaware State University	Molecular Interactions Driving the CD44-ICD-mediated Signaling Pathway
1	57	Eduardo	Montoya	California State University, Bakersfield	Investigating Particulate Matter Concentrations: A Functional Data Analysis Approach
1	77	Steven	Morgan	Fisk University	Infusing Quantitative Biology Methods into the Life Sciences Curriculum
2	102	Augustus	Morris	Central State University	Transforming the Culture of STEAM Education through a Community of Practice
1	81	Lycurgus	Muldrow	Morehouse College	Scientific Literacy Summer Program for Pre-Freshmen and High School Students
1	11	Ananda	Nanjundaswamy	Alcorn State University	Yeast Transcriptomics during Bioprocessing: A Powerful Tool in Cellulosic Ethanol Production and Process Optimization
2	12	Brian	Nelms	Fisk University	The multidisciplinary Fisk University CREST Center for Biological Signatures and Sensing
2	88	Suman	Niranjan	Savannah State University	Effect of Mental Workload and Overconfidence on Distracted Driving: The Mediating Role of Mind-Wandering
1	39	Linwei	Niu	West Virginia State University	Enhanced Energy-Aware Standby-Sparing Techniques for Fixed-Priority Hard Real-Time Systems
1	103	Arturo	Pacheco-Vega	California State University, Los Angeles	Fractional-order-based system Identification for Heat Exchange Systems
1	89	Agnes	Padovani	University of Puerto Rico, Mayagüez	UPRM-CREST: 10 Years of Broader Impact Across the Academic Echelon
1	13	Carleitta	Paige-Anderson	Virginia Union University	Integrating Undergraduate Research to Enhance Academic Curriculum and Faculty Research

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2	58	Choongseok	Park	North Carolina A&T State University	Effects of Social Experience on the Neuromodulation of the Escape Circuit: Empirical and Computational Analysis
2	40	Enrico	Pontelli	New Mexico State University	Towards a SMART Grid
1	59	Arunasalam	Rahunanthan	Central State University	A Convergence Analysis of MCMC Algorithm for A Single-Phase Flow Problem
2	104	Subramanian	Ramakrishnan	Florida A&M University	CREST Center for Complex Materials Design for Multidimensional Additive Processing (CoManD)
1	105	Subramanian	Ramakrishnan	Florida A&M University	Targeted Infusion Project: Enhancement of Materials Science Education through Active Learning at FAMU
2	14	Saumya	Ramanathan	Fisk University	Cause and Consequences of MAGE-B2 Gene Expression
1	69	Vijay	Rangari	Tuskegee University	Applications of Waste Egg and Seashell Biomaterial for Tissue Engineering Scaffolds
1	15	Vernon	Ruffin	Virginia Union University	Implementing a Course-based Undergraduate Research Experience (CURE) Focusing on Neurophysiology Research
2	16	Susan	Safford	Lincoln University	Student-Led App Development
1	17	Sanju	Sanjaya	West Virginia State University	Genetic Engineering of Cupin Proteins in Arabidopsis thaliana for Increased Production of Seed Storage Compounds
2	30	Bidisha	Sengupta	Tougaloo College	Unusual DNA G4/C4 Ligands: A Comparative Study on a Flavonol Morin and Banana Peel Extract with Nicotine
2	18	Abolghasem	Shahbazi	North Carolina A&T State University	Biomass gasification, pyrolysis, and Fischer Tropsch Synthesis
1	31	Jacqueline	Smith	Bowie State University	Microwave Synthesis of Novel Imidazole Compounds to Understand Cellular Repair
2	106	Oscar Marcelo	Suarez	University of Puerto Rico - Mayaguez	10 Years of Transformative Research on Nanotechnology: The Highlights of UPRM-CREST

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1	19	Alamelu	Sundaresan	Texas Southern University	Undergraduate Peer Mentoring in STEM
2	70	Maria	Tamargo	The City College of New York	CREST IDEALS: Interface Design and Engineered Assembly of Low Dimensional Systems
2	60	Guoqing	Tang	North Carolina A&T State University	Establishing an Undergraduate Data Science and Analytics Program at a HBCU
1	61	Guoqing	Tang	North Carolina A&T State University	Effects of Innovative Mathematics Instruction Methods on Student Attitude, Self-Efficacy, Effort and Performance
2	90	Orlando	Taylor	Fielding Graduate University	Professional Development for STEM Women of Color
2	46	Rita	Teutonico	Florida International University	CREST Center for Aquatic Chemistry and Environment (CREST CACHE)
1	41	Haydar	Teymourlouei	Bowie State University	Intentify BlockChain Authentication Vulnerabilities
2	82	Hector N.	Torres	Bethune-Cookman University	Investigating the Effects of Socioscientific Argumentation Development on Student Academic Success
2	32	Kennedi	Trice	Clark Atlanta University	Preparation and Characterization of Nanocomposites Incorporating Lignin-Coated Cellulose Nanocrystals in Polypropylene and High-Density Polyethvlene
2	78	Chih-Kuan	Tung	North Carolina A&T State University	Understanding the Formation of Large Flocks of Sperm in Viscoelastic Fluid
1	91	Carlene	Turner	Norfolk State University	The Impact of the Socio-Cybersecurity Project: HBCU-UP TIP Award 2016-2019
2	20	George	Ude	Bowie State University	Direct-and Indirect-Heptaplex PCR Marker-Assisted Screening in Food Forensic for Detection of Meat Constituents in Processed Food Products
1	21	Melanie	Van Stry	Lane College	Enhancing Foundational Courses in Biology and Chemistry with PLTL and CUREs
2	22	Komal	Vig	Alabama State University	Initiative in NanoBioengineering Undergraduate Research and Education for Minority Students (INBUREM)

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2	62	Yunjiao	Wang	Texas Southern University	Mathematical Models of Multistable Binocular Rivalry
1	33	Zhe	Wang	Xavier University of Louisiana	New Electrochemical Reaction and Selective Adsorption on the Ionic Liquid-electric Interface
1	63	Kimberly	Weems	North Carolina Central University	A Flexible Bivariate Distribution for Count Data Expressing Data Dispersion
1	83	Jillian	Wendt	University of the District of Columbia	Implementation of a STEM Peer Community Peer Mentorship Model for Undergraduate and Graduate Minority STEM Students
1	107	Zhenhua	Wu	Virginia State University	Enable Digital Thread and Digital Twin Learning Environment for Cybermanufacturing Education
2	34	John	Yi	Winston Salem State University	High Resolution Electronic Spectroscopy of N-Methylcarbazole in the Gas Phase
2	108	Hargsoon	Yoon	Norfolk State University	Excellence in Research: Fast Functional Imaging of Neural Networks with Nanoelectrode Arrays
1	109	Shaik	Zainuddin	Tuskegee University	Targeted Infusion Project: Integrative Makers Course and Laboratory for STEM Undergraduates
2	110	Katie	Zemlick	University of New Mexico	Water Management for Hydrocarbon Development in the Permian Basin: Understanding linkages between stakeholder behavior and public perception
2	42	Azene	Zenebe	Bowie State University	Cyber Threat Intelligence Discovery in the Dark Net
1	35	Yongfeng	Zhao	Jackson State University	Synthesis of Copper Doped Melanin-like Nanoparticles for Imaging Guided Photothermal Therapy
1	23	Lieceng	Zhu	Fayetteville State University	Mechanisms of Heat-Induced Loss of Plant Resistance to Insects-A Collaborative Effort