

Poster #	Primary Author	Institution	Abstract Title
75	Malek Adjouadi	Florida International University	Multimodal Imaging for Brain Research
76	Firas Akasheh	Tuskegee University	Dislocation Structure of Cu/Nu (100) Semi-coherent Interface and its Role in a Lattice Dislocation Nucleation and Point Defect Annihilation
77	Muhammad Akbar	Tennessee State University	Development and Study of an Implicit Model for Rapid and Accurate Simulation of Hurricane Storm Surge
78	Wayne Archibald	University of the Virgin Islands	Near-edge X-ray Absorption Fine Structure Investigation of P-type doped CVD Graphene
50	Messaoud Bahoura	Norfolk State University	Hands-on Scanning Probe Microscopy for High School Students
32	Maruthi Sridhar Balaji Bhaskar	Texas Southern University	Geospatial Models to Map Mercury Dynamics at Watershed Scale
33	Mercedes M. M. Bartkovich	Alabama A&M Univeristy	Estimating Breeding Origins and Sex-related Stopover Patterns of Four Migrant Songbird Species in Alabama Using Stable Isotope and Molecular Methods
11	Eric Bonsu	Bowie State University	Benzoic Acid Effect on Production of β Carotene by Carrots, <i>Daucus carota</i> (L): A Focus on the Effect of the Acid on Plant Growth
45	Calvin Briggs	Lawson State Community College	Increasing Recruitment and Persistence of Underrepresented Minorities in STEM Career Pathways
72	Danyelle Brown	Howard University	The Roles of Social Identities in the Achievement Motivation and Retention of Black Undergraduate Women in Computing Disciplines
58	Ei Ei Brown	Hampton University	Crystal Growth and Spectroscopic Properties of Rare-Earth doped KPb2Cl5
34	Jessica Furrer Chau	Benedict College	Impact of Soil Texture on Soil Ciliate Communities
1	Chellu S. Chetty	Savannah State University	STEM Initiatives at Savannah State University
67	Alma R. Clayton-Pedersen	Association of American Colleges and Universities	Addressing the Double Bind by Preparing Critical Faculty for the Future at HBCUs
35	Maurice Crawford	University of Maryland Eastern Shore	Educational Partnership in Climate Change and Sustainability (EpiCCS)

Poster #	Primary Author	Institution	Abstract Title
51	Esmarline De Leon Peralta	University of Puerto Rico-Mayaguez Campus	Modification of the Co-Precipitation Method to Synthesize Iron Oxide Nanoparticles with Higher Specific Absorption Rates
36	Tolessa Deksissa	College of Agriculture, Urban Sustainability and Environmental Sciences, UDC	Attracting and Preparing Underrepresented Minority Students in STEM: Rethinking Bridge Programs
59	Mario C. Diaz	University of Texas at Brownsville	The Center for Gravitational Wave Astronomy: Its Present and Its Future
12	C. Edward Ebert	Winston Salem State University	Biomaterials in Media VS Attached Have Varying Effects on Cell Processes
13	Maurice D. Edington	Florida A&M University	HBCU-UP Implementation Project at Florida A&M University: Student Centered Active Learning and Assessment Reform (SCALAR)
60	Mehri Fadavi	Jackson State University	Institutional Change through Faculty Advancement in Instruction and Mentoring--ICFAIM
79	Ellie Fini	NC A&T State University	Implementation of Sustainability Concepts into Undergraduate Civil Engineering Courses
2	Lawrence O. Flowers	Livingstone College	HBCU Student Perceptions of Institutional STEM Career Development Experiences
21	Mohammad Muztaba Fuad	Winston Salem State University	Look Ma, I can Play With My Quiz in the Smart Phone
22	Ann Q. Gates	University of Texas at El Paso	CREST-Cyber ShARE Center of Excellence: A Center for Sharing Cyber-Enhanced Resources to Advance Science and Education
61	Jafar Gharavi-Naeini	Winston-Salem State University	TIP Grant: Development and Enhancement of the Physics Laboratories at WSSU
37	Buddhi R. Gyawali	Kentucky State University	Strengthening STEM Academic and Research Programs at Kentucky State University
14	Ashton T. Hamme II	Jackson State University	Jackson State University Research Infrastructure and Student Development through the Chemical Design of Multifunctional Carbon Nanotubes
80	S. Keith Hargrove	Tennessee State University	Developing NAE Grand Challenges Research Initiatives at Tennessee State University
81	Monique Head	Morgan State University	Green Bridge Rating System

Poster #	Primary Author	Institution	Abstract Title
15	Lisa B. Hibbard	Spelman College	Blended Instructional Strategies in the General Chemistry Course Sequence
73	Oliver W. Hill	Virginia State University	A Psychosocial Profile of African American STEM Majors at an HBCU
82	Mahesh Hosur	Tuskegee University	Center of Excellence in Nanobiomaterials Derived from Biorenewable and Waste Resources
46	Sanjukta Hota	Fisk University	Development of Undergraduate Bio-track program-a Targeted Infusion project of Fisk University
83	Kerry J. Howe	University of New Mexico	UNM Center for Water and the Environment: An NSF CREST Center
23	Sajid Hussain	Fisk University	Transforming Computer Science Curriculum & Integration with STEM courses
84	Shamsuddin Ilias	North Carolina A&T State University	Reforming and Processing of Biofuels for Fuel Cells
3	Raphael D. Isokpehi	Bethune-Cookman University	Developing Quantitative Expertise in the Undergraduate Biology Curriculum
68	Caesar Jackson	North Carolina Central University	Establishing Reliability and Validity of a Self-Regulated Learning Measure for African American Students in STEM
85	Masoud Kamalahmadi	North Carolina A&T State University	An Assessment of Three Strategies for Supply Chain Disruption Mitigation: Pre-Positioning Inventory, Backup Suppliers, Supplier Protection
52	Ishrat M. Khan	Clark Atlanta University	CREST: Center for Functional Nanoscale Materials at Clark Atlanta University
24	Hyunju Kim	Jackson State University	Using Git and GitLab as Teaching Tools for Distributed Software Development
86	Raghava R. Kommalapati	Prairie View A&M University	The Research and Educational Activities of the Center for Energy & Environmental Sustainability at Prairie View A&M University
16	Cheng-Yu Lai	Delaware State University	Enhancement of Undergraduate Chemistry Program at Delaware State University Through Integration of Sustainable Chemistry in Course and Laboratory
17	Jerzy Leszczynski	Jackson State University	Interdisciplinary Nanotoxicity CREST Center Jackson State University

Poster #	Primary Author	Institution	Abstract Title
25	Wei Li	Texas Southern University	Multi-Disciplinary Research and Synergy
18	Lee E Limbird	Fisk University	Fisk University HBCU-UP Implementation Project for Deeper STEM Learning
53	Milton A. Martinez Julca	University of Puerto Rico, Mayaguez Campus	Li-doped ZnO Nanoparticles for Potential Photodynamic Therapy Applications
69	Larry Mattix	Norfolk State University	Graduation Academy - Transitioning STEM Students to Graduation and Graduate School
26	Terry McKoy	CREST Center for Computational Center for Fundamental Applied Science and Education, North Carolina Central University	Robust Facial Feature Extraction from Photos, Sketches, and Caricatures
70	Mark A. Melton	Saint Augustine's University	The Impact of National Science Foundation Support on STEM Education
87	Patrick Mensah	Southern University and A&M College	NextGenC ³ Composites CREST Center
88	Fernando Merida	University of Puerto Rico, Mayaguez Campus	Enhancement of the Co-precipitation Synthesis and Peptization Conditions to Increase the Heat Dissipation Rates of Iron Oxide Magnetic Nanoparticles
89	Danielle Miller	Howard University	Real Time Visualization of PEI dynamics
4	Mark W. Miller	University of Puerto Rico	Effects of Tributyl Phosphate (TBP) on the Crab Cardiac Ganglion
62	Prabhakar Misra	Howard University	Targeted Reinvigoration of Critical Key Aspects of the Undergraduate Physics Program in the Department of Physics & Astronomy at Howard University
38	Elica Moss	Alabama A&M University	International Research Experiences for Undergraduates and Graduates at Alabama A&M University, 2012-2014
27	Jean Muhammad	Hampton University	Computing Pre-College Program: Initial Impact to First-Year Student in Computer Science
90	K.V. Nedunuri	Central State University	Integrated Geoscience Curriculum for Workforce Development for Oil and Gas Industry (IGC)
39	Robert Negrini	California State University, Bakersfield	CSUB Center for Climate Change and Carbon Sequestration: A Progress Report after Three Years

Poster #	Primary Author	Institution	Abstract Title
5	Brian L. Nelms	Fisk University	FKH-8 Regulates C. Elegans Dopaminergic Neuron Function
6	Anne Osano	Bowie State University	Salicylic Acid Elicitation on Production of β Carotene by Carrots, <i>Daucus carota</i> (L): A Focus on the Effect of the Acid on Plant Growth
40	Dessy A. Owiti	Alabama A&M University	Soil Organic Carbon Fractions and Hydrolysis in a Forest Ecosystem Following Prescribed Burning and Thinning
91	Arturo Pacheco-Vega	California State University, Los Angeles	Numerically-Based Parametric Analysis of Plain-Fin and Tube Compact Heat Exchangers
92	Xiaobo Peng	Prairie View A&M University	Simulating the Approach-retract Phenomena of Atomic Force Microscopy (AFM) in a Virtual Environment with Haptic Interface
28	Enrico Pontelli	New Mexico State University	Center of Research in Design of Intelligent Technologies for Smartgrids
41	Donald Price	University of Hawaii at Hilo	NSF CREST at the University of Hawaii Hilo
93	Lijun Qian	Prairie View A&M University	Hybrid Systems Modeling of Drug Effect on Tumor Growth
94	Subramanian Ramakrishnan	Florida A&M University	Structure and Dynamics of Nanoparticle Suspensions and Gels
54	Vijaya Rangari	Tuskegee University	Effect of Eggshell Nanopowder on the Thermal and Mechanical Properties of Ecofriendly Polymer Matrix
47	Yevgenii Rastigejev	North Carolina A&T State University	NSF HBCU-RISE AMCA Center for at North Carolina A&T State University
63	Felix Jaetae Seo	Hampton University	NSF-CREST: Advanced Center for Laser Science and Spectroscopy
95	Sachin Shetty	Tennessee State University	Building Research Capacity in Cyber Security at Tennessee State University
7	Shishir Shishodia	Texas Southern University	Vertical Training of STEM Students from High School through Ph.D. Candidates
55	Shree R. Singh	Alabama State University	Computational Biology and NanoBiotechnology Undergraduate Research and Education (CNURE) Program

Poster #	Primary Author	Institution	Abstract Title
56	Shree R. Singh	Alabama State University	Center for NanoBiotechnology Research (CNBR) at Alabama State University (ASU)
8	William E. Stone	Alabama A&M University	Targeted Infusion to Invert the Classroom in Fish and Wildlife Science Disciplines: Experiential Learning Opportunities Across the Curriculum
96	Michael A. Stubblefield	Southern University and A&M College	Southern University and The New Energy Workforce: Sustainable Materials, Energy, and Technology
97	O. Marcelo Suarez	University of Puerto Rico - Mayaguez	Engaging Hispanic Youth in STEM via Clubs and Balloon Activities
29	Rajendran Swamidurai	Alabama State University	Engaging Minority Students in Software Engineering Through Active Learning in Software Engineering
48	Guoqing Tang	North Carolina A&T State University	Evolution and Impact of Interdisciplinary STEM Undergraduate Research Programs at North Carolina A&T State University
9	Yonas I. Tekle	Spelman College	New Tools For Resolving Amoebozoa Phylogenies: Testing The Phylogenetic Utility Of Cytoskeletal Architecture To Understand Cochliopodium Diversity
10	Murali K. Temburni	Delaware State University	Role of Astrocytes in the Development of Synchronized Bursting Behavior in Neuronal Networks
57	Pawan Tyagi	University of the District of Columbia	Tunnel Junction Based Molecular Spintronics Devices
30	Oliver Ullrich	Florida International University (FIU)	Informed Traveler Program and Applications
64	Branislav Vlahovic	North Carolina Central University	CREST Phase II: Computational Center at North Carolina Central University
65	Daniel Vrinceanu	Texas Southern University	Accurate Quantum States for a 2D-dipole
66	Donald Walter	South Carolina State University	TIP: Piloting a Physics Partnership
42	Lorenzo Walton	Alabama A&M University	The Effects of Logging Slash on the Establishment of Big Bluestem Grass
98	Lijun Wang	NC A&T State University	Biomass Gasification and Hot Syngas Cleaning for Production of High-Quality Syngas for Fischer-Tropsch Synthesis

Poster #	Primary Author	Institution	Abstract Title
43	Yong Wang	Alabama A&M University	Increasing Minority Presence in Natural Resource Research through Training
99	Yonghui Wang	Prairie View A&M University	Enhance Computing Curricula with High Performance Computing Teaching and Research
71	Leslie Y. Whiteman	Virginia State University	Impact of a Science Methods Course on Preservice Elementary Teachers' Knowledge and Confidence
19	Leyte Winfield	Spelman College	Strategies for Success in Organic Chemistry
74	Cynthia E. Winston	Howard University	The Howard University Center for Translational Psychological Science and STEM Workforce Development
49	Zhifu Xie	Virginia State University	Variational Method and Periodic Solutions in Celestial Mechanics
20	Fei Yan	North Carolina Central University	Ultrasensitive SERS Nanoprobes for Selective Detection of Ferric Ions
100	Xiaohong Yuan	North Carolina A&T State University	Developing a Health Informatics Security and Privacy Program
101	Dongdong Zhang	Prairie View A&M University	Achieving Effective Learning Using Student-Generated Screencasts in Computer-Aided Design Education
31	Jinghua Zhang	Winston-Salem State University	Developing Game-Like Instructional Modules to Enhance Student Learning in Lower Level Core Computer Science Courses
102	Yongpeng Zhang	Prairie View A&M University	Teaching and Research Initiatives in Power Engineering Technology
103	Wei Zheng	Jackson State University	Teaching Community Approach to Prompting Effective Active Learning through Implementing Self-Regulated Learning Assessment in Multiple STEM Courses
44	Feimeng Zhou	California State University Los Angeles	Center for Energy and Sustainability (CEaS): Development of a Premier Research Center at California State University Los Angeles