2020 HBCU-UP/CREST PI/PD Meeting
Washington, DC | February 5-6
Poster Presentation Schedule*

Poster Presentation 1: Wednesday, February 5th | 5:00 PM - 6:30 PM
Poster Presentation 2: Wednesday, February 5th | 6:30 PM - 8:00 PM

Session #	Poster #	First Name	Last Name	Institution	Abstract Title
2	22	Asem	Abdulahad	Xavier University of Louisiana	Phosphonium Ionenes as Solid Polymer Electrolytes in Lithium Ion Batteries
1	95	Corisma	Akins	Grambling State University	Improving the Soft Skills of Undergraduate STEM Students
1	11	Louise	Allen	Winston-Salem State University	Testing the Mechanisms Underlying Noise Avoidance by Animals - Year 1 Reflections
2	86	George	Armstrong	Tougaloo College	POGIL Pedagogy Increased Student Success in Organic Chemistry I and II
1	63	Anshu	Arora	University of the District of Columbia	Strengthening Undergraduate Research in Interdisciplinary Logistics and International Trade Analytics at the University of the District of Columbia
1	99	Messaoud	Bahoura	Norfolk State University, VA	CREST CREAM at NSU: Successful Students Job Placement
2	38	Maruthi Sridhar	Balaji Bhaskar	Texas Southern University	Summer Undergraduate Research Experience (SURE) Program in Environmental and Interdisciplinary Sciences (EIS)
1	27	Sambit	Bhattacharya	Fayetteville State University	Geospatial Problems for Teaching and Learning in Computing and Data Analytics
1	5	Shakhawat	Bhuiyan	Jarvis Christian College	Implementing a Course-based Undergraduate Research Experiences (CURE) Program in the Biological Sciences
2	52	Rami	Bommareddi	Alabama A&M University	Design of Nanostructures for Energy Efficient Devices
1	61	Fred	Bonner	Prairie View A&M University	Models of Success: Identifying Factors that contribute to faculty production of Minority STEM Graduates - Implications for HBCUs and Beyond
1	87	Swastik	Brahma	Tennessee State University	Cyber-Physical System Education and Research Training in the College of Engineering at TSU

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1	85	Tracy	Brown-Fox	Johnson C. Smith University	Introducing Polymer Chemistry into the Undergraduate Curriculum at Johnson C. Smith University
2	98	LaTanya	Brown-Robertson	Bowie State University, Bowie MD	Infusion of Data Science and Analytics Across Undergraduate Disciplines and Research Experiences
2	88	Janelle	Burke	Howard University	Interdisciplinary Environmental Studies and Sciences Program at Howard University: Training, Research and Experiential Learning
1	45	Mingchao	Cai	Morgan State University	An Introduction of Fluid Poroelastic Structure Interaction Models
2	6	Tyrell	Carr	Saint Augustine's University	Engaging Undergraduates in NAD-Capped RNA Function and Metabolism Research
2	14	Karina	Chavez	Cornell University	Self-Healing Green Composites
2	48	Abhinandan	Chowdhury	Savannah State University	Study of Memory Effects for the Heat Conductivity of Random Suspensions of Spheres
2	74	Lee	Clapp	Texas A&M University-Kingsville	CREST Center for Sustainable Water Use (CREST-SWU)
1	75	Charles R.	Colen, Jr.	University of Arkansas at Pine Bluff	UAPB STEM Academy Model
2	26	David	Cooper	Cheyney University	CRISP Projects to Spark Interest in Computer Science Research
1	15	Kimberley	Cousins	Department of Chemistry & Biochemistry, California State University, San Bernardino	Materials Genome Approach to Functional Materials Discover Using the Cambridge Data System
2	96	Antonino	Cucchiara	University of the Virgin Islands, College of Marin	From Shore to the Stars: Enhancing Astronomy Education in the U.S. Virgin Islands

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2	54	Qilin	Dai	Jackson State University	The Preparation of Pptimized TiO2 Layers for Perovskite Solar Cells
1	57	Kausiksankar	Das	University of Maryland Eastern Shore	Breaking the Boundaries of Microfluidic Mixing with Sharpie Dots
2	80	Shawn	Dash	Hampton University	Targeted Infusion Project: Mathematical Engagement for the Marine, Biological, and Environmental Realms of Science (MEMBERS)
1	79	Seema	Dhir	Biology Department, Fort Valley State University, GA	Integration of Biotechnology in Upper Division Biology Courses at FVSU and the Impact on Student Success
2	62	Danielle	Dickens	Spelman College	Development of Shifting Scale for Black Women in STEM: Preliminary Results
1	67	Tarik	Dickens	FAMU-FSU College of Engineering, Florida A&M University	RISE: High-Performance Additive Manufacturing of Composite Structures via Development of Reconfigurable Cyber-Physical Robotic (CPR) Systems - Year 3
2	70	Jerald	Dumas	Hampton University	Determining Solid Dispersion Effects on the Curing Profile and Mechanical Properties of Polymeric Composites
2	94	Maurice	Edington	Florida A&M University, Tallahassee, FL	HBCU-UP Implementation Project: Science Community of Active Learners to enhance Achievement and Retention (SCALAR II)
2	30	Raymond	Elliott	Savannah State University	The Role of Disability Type on College Major, Highest Degree Level Attainment, and Job Occupation based on Culture in Country of Birth
2	20	Manliang	Feng	Tougaloo College	Graphene Oxide Changes the Auto-Reduction Mechanism of Bis-Fe(IV) MauG
1	7	Maira	Goytia	Spelman College	Antimicrobial Resistance and Biofilm Formation by Commensal Neisseria Species
1	73	S. Keith	Hargrove	Tennessee State University	A Unique Laboratory Setting for Student Learning: The Engineering Clinic

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2	72	Leila	Hashemi Beni	North Carolina A&T State University	Machine Learning in support of Flood Resilience
2	32	Matthew	Hayes	Xavier University of Louisiana	Leveraging Hi-C and Whole Genome Shotgun Sequencing for Double Minute Chromosome Discovery
1	71	David	Heise	Lincoln University	Computational Research on Music & Audio - Achievements and Challenges Ahead
1	35	Andrij	Horodysky	Hampton University	Micro RNA Isolation from Three Neurosensory Structures in CO2-Exposed Marine Fishes
1	43	Sanjukta	Hota	Fisk University	Infusion of Quantitative and Computational Biological Content into Fisk University's UG STEM Curriculum
2	76	Kerry	Howe	University of New Mexico	CREST Phase II Center for Water and the Environment at UNM
1	29	Lei	Huang	Prairie View A&M University	Toward the Convergence of Wave Physics and Deep Learning Solutions
2	12	Shubha	Ireland	Xavier University of Louisiana	Course-based Research Experiences: A model for Improved Retention
2	78	Raphael	Isokpehi	Bethune-Cookman University	From HBCU-UP Targeted Infusion Project to Integrative Ecological Physiology Excellence in Research Project at Bethune-Cookman University, Florida
1	21	Karl	Jackson	Virginia Union University	Research Initiation Award: Highly Stable Nanoparticle-Doped Metal-Organic Frameworks for Applications in Water Purification
2	36	Micah	Jasper	North Carolina A&T State University	Techno-Economic-Environmental Analyses of Chemical Looping Gasification (CLG) of Biomass with CO2 Recycling for Producing Biofuels
2	58	Narbe	Kalantarians	Virginia Union University	Subatomic Physics at VUU

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1	81	S. Catherine Silver	Key	North Carolina Central University, Durham, NC	NSF HBCU-UP TIP: DaBuGs Flight Preparation
1	91	Seongtae	Kim	North Carolina A&T State University	Characteristics of Student Survey on Confidence, Attitude, Self-Efficacy and Effort in College Mathematics Educatio
1	33	Yungkul	Kim	Bethune-Cookman University	Excellence in Research: Microbiome of the Eastern Oyster and its Denitrification Potential in Benthic Systems
1	9	Carrie	Kouadio	University of California, Merced	NSF-CREST Center for Cellular and Biomolecular Machines
2	18	Jerzy	Leszczynski	Jackson State University	Interdisciplinary CREST Center for Nanotoxicity at Jackson State University
2	64	Michele	Lewis	Winston-Salem State University	Cultural Neuroscience Institute: Promoting Science Identity in Psychology
1	89	Torina	Lewis	Clark Atlanta University	Implementing Adaptive Learning Technology to Prepare STEM Students for Success in Mathematics: A Calculus I Study
2	90	Qingxia	Li	Fisk University	Integrating Mathematics into the Teaching of Developmental Biology through a Peer-led Learning Community
1	1	Hongmei	Li-Byarlay	Central State University	Search for the Epigenomic Mechanisms of Paternal Inheritance of Aggression in Social Honeybees
1	3	Lee	Limbird	Fisk University	Enhancing Quantitative/Computational (QC) Confidence/Competence in Life Sciences
2	2	Khalid	Lodhi	Fayetteville State University, Fayetteville	Assessment of Undergraduate Student Learning Outcomes in Principles of Biology
1	97	Jessica	Lopez	St. Philip's College	STEM Enrichment by Design Project - Successes, Challenges, and Changes

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1	65	Joao	Machado	California State University, Los Angeles	Comparison of Advanced Hydraulic Properties between Treated and Untreated Bauxite Residue
2	82	Jinghe	Mao	Tougaloo College	Implementing Basic Research Technique Workshops at Tougaloo College
2	44	Henok	Mawi	Howard University	Numerical Approach to the Near Field Refractor Problem
1	49	Patrick	Mensah	Southern University and A&M College	Next Generation Multifunctional Composites Crest Center-Phase II
2	34	Alex	Mercado-Molina	Florida International University	Resource-consumer Relationship Along a Gradient of Water Flow
2	10	Mark	Miller	University of Puerto Rico Medical Sciences Campus	The CREST Puerto Rico Center for Environmental Neuroscience (PRCEN)
2	84	Eric	Mintz	Clark Atlanta University	Redesign of Chemistry I and II with Adaptive Tools Supported High Touch Student Services
2	40	Eduardo	Montoya	California State University, Bakersfield	Variation in the Annual Progression of Snow Accumulation and Melt in the Sierra Nevada
1	31	Linwei	Niu	West Virginia State University	Aggressive Deadline-Driven Standby-Sparing for Hard Real-Time Systems under Energy-Awareness
1	55	Natalia	Noginova	Norfolk State University	Control of Magnetic Dipole Emission with Nanostructures
2	66	Arturo	Pacheco-Vega	California State University, Los Angeles	Heat Transfer Enhancement in Wavy Micro-channels via Multi-harmonic Surfaces
2	46	Choongseok	Park	North Carolina A&T State University	Activity Patterns of Neuronal Network with Voltage-Sensitive Piecewise Smooth Coupling

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2	28	Enrico	Pontelli	New Mexico State University	iCREDITS at New Mexico State University: Summary of Accomplishments
1	41	Arunasalam	Rahunanthan	Central State University	Convergence Diagnostics of MCMCs for Reliable Prediction of Contaminant Transport
2	68	Subramanian	Ramakrishnan	Florida Agricultural and Mechanical University	CREST Center for Complex Materials Design for Multidimensional Additive Processing (CoManD)
1	69	Subramanian	Ramakrishnan	Florida Agricultural and Mechanical University	Targeted Infusion Project: Enhancement of Materials Science Education through Active Learning at Florida A&M University
2	4	Saumya	Ramanathan	Fisk University	Cause and Consequences of MAGEB2 Gene Expression
1	23	Kevin	Riley	Xavier University of Louisiana	Investigating the Adsorption Strength of Industrially Relevant Small Gas Molecules on Hexagonal Boron Nitride and Planar Silicon Carbide Surfaces
1	51	Vijay	Rnagari	Tuskegee University	CREST: Center for Sustainable Lightweight Advanced Materials (C-SLAM)
1	53	Marius	Schamschula	Alabama A&M University	Advancing Success in STEM Undergraduate Research and Education (ASSURE)
2	16	Keerthi	Senevirathne	Florida A&M University	Visible-range Heterojunction Nanofiber Photocatalysts for Water Splitting: The Effect of Co-catalysts
1	37	Abolghasem	Shahbazi	North Carolina A&T State University	Gasification of Biomass to Syngas and Fischer Tropsch Synthesis to Biofuels
1	13	Jacqueline	Smith	Bowie State University	Microwave Synthesis of Imidazole Compounds as VCP Inhibitors
2	8	Alamelu	Sundaresan	Texas Southern University	STEM Research Activities of the TSU UPMP-Mentor Research in Biology, Chemistry, Physics and Mathematics

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1	17	Solmaz	Tabtabaei	Howard University, Washington, DC	Dry Fractionation of Soybean Meals into Functional Protein-Rich Ingredients
2	92	Guoqing	Tang	North Carolina A&T State University	Insight and Experience Gained through Two Global Research and Education Experience Programs Supported by NCAT ACE DSA Project
1	59	Hector	Torres	Bethune-Cookman University	Development of a Socioscientific Argumentation STEM Curriculum at a Historically Black University
2	56	Chih Kuan	Tung	North Carolina A&T State University	Comparing Sperm Collective Swimming with Flocking Transition
1	93	Pawan	Tyagi	University of the District of Columbia	UDC's Research Enabled Experiential Learning for Undergraduates
1	83	Hendricus	Van Antwerpen	Virginia Union University	Coaching for Academic and Professional Success (CAPS) in STEM
2	42	Wei	Wan	Claflin University	Optimal Power Allocation of Satellite Communications
2	50	Yunjiao	Wang	Texas Southern University	A Hierarchical Model of Perceptual Multistability Involving Interocular Grouping
2	24	Zhe	Wang	Xavier University of Louisiana	Investigation of Small Molecule Adsorption and Conversion on the Electrode/Ionic-Liquid Interface and Application to Sensing and Catalysis
1	47	Kimberly	Weems	North Carolina Central University	A Flexible Bivariate Conway-Maxwell-Poisson Distribution
2	60	Jillian	Wendt	University of the District of Columbia	A Model for Peer Mentorship to Encourage STEM Interest, Self-Efficacy, and Intent to Persist among Women and Racial and Ethnic Minority Students
1	25	Kirk	Williams II	Bowie State University	Applying Machine Learning to Classify Player Importance in the NBA

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1	77	Zhenhua	Wu	Virginia State University	Cybermanufacturing Research and Education at Virginia State University
1	39	Azucena	Zamora	University of Texas at El Paso	A Primal-Dual Approach for Joint Inversion of Seismic and Gravity Data: Gaining Insight Into the 3-D Geophysical Structure of Colombia
1	19	Yongfeng	Zhao	Jackson State University	One-pot Synthesis of Water-soluble Iron Oxide Nanoparticles with Narrow Size Distribution and their Potential Application for T1-weighted MRI