2019 HBCU Engineering Workshop
Tennessee State University
#HBCUDOUBLEUP
MAY 22-24, 2019 | NASHVILLE, TN
Wednesday, May 22, 2019

1:00-2:00 p.m. Onsite Registration

2:00 p.m.
Welcome
S. Keith Hargrove, Ph.D., Dean, College of Engineering
Tennessee State University

2:10 p.m.
Opening Remarks: The Double Up Challenge: A Call to Action!
Eugene Anderson, Ph.D., Vice President for Office of Access and Success
APLU

2:25-3:00 p.m.
Digital and Adaptive Learning: What to do and what are the results?
Megan Tesene, Ph.D., Associate Director, Professional Learning
Consortium, APLU

3:00-3:45 p.m.
Course Redesign Table Exercise
Megan Tesene, Ph.D., Associate Director, Professional Learning
Consortium, APLU

3:45-4:15 p.m.
Break

4:15-4:45 p.m.
The Emergence of The Internet of Everything (IoE) Smart
Connected Devices and EduGadgets for Real-Time On-Demand
Transformation of Education
Robbie K. Melton, Ph.D., Professor and Transitional Dean of Graduate
School, Tennessee State University

5:00 p.m.
Depart to hotel

6:00 pm
Depart to Local Restaurant for Dinner

6:15-8:30 p.m. Networking Dinner
HBCU Engineering Faculty Workshop Agenda
Tennessee State University
#HBCUDOUBLEUP

Thursday, May 23, 2019

7:30-8:15 a.m.  Breakfast

8:15-9:00 a.m.  Poster & Networking Session

9:00-10:15 p.m.  Demystifying the NSF Funding Process Part 1
Paige Smith, Ph.D., Program Director, Division of Engineering Education &
Centers (ENG/EEC), National Science Foundation

10:15-10:30 a.m.  Break

10:30-11:45 a.m.  Grant Writing: An NSF Grantee’s Perspective
Lesia Crompton-Young, Ph.D., Vice President-Research and Institutional
Advancement, Tennessee State University

12:00-1:15 p.m.  Luncheon Plenary: The Importance of Reflective Practice: An
Overview of Survey Results
Saundra Johnson Austin, Ed.D., President and CEO, Charis Consulting Group

1:15-1:30 p.m.  Break

1:30-2:30 p.m.  Demystifying the NSF Funding Process Part 2
Fay Cobb Payton, Ph.D., Program Director, Division of Computer and
Network Systems, Directorate for Computer for Computer and Information
Science and Engineering (CISE), National Science Foundation

2:30-3:15 p.m.  Faculty Action Plan Report Out and Feedback
Saundra Johnson Austin, Ed.D., President and CEO, Charis Consulting Group

3:15-4:15 p.m.  Developing a Joint HBCU Engineering Proposal
Rosalina Escandon, Associate Director, APLU

4:15 p.m.  Workshop Adjourns

Friday, May 24, 2019

7:30-8:30 a.m.  Breakfast

8:30-10:00 a.m.  Expanding HBCU Impact in Engineering, Entrepreneurship and
Commercialization Discussion
Eugene Anderson, Ph.D., Vice President for Office of Access and Success
APLU

10:00-10:15 a.m.  Break

10:15-11:15 a.m.  Planning For Student Success And Pedagogy
Rosalina Escandon, Associate Director, APLU
Saundra Johnson Austin, Ed.D., President and CEO, Charis Consulting
Group LLC

11:15 a.m.  Closing Remarks & Workshop Evaluation
**S. Keith Hargrove** serves as Dean of the College of Engineering at Tennessee State University and Director of the TIGER Research Institute at TSU. He previously served as the chair of the Industrial Manufacturing & Information Engineering Department at Morgan State University, the Assistant to the Dean and Associate Professor of Mechanical Engineering at Tuskegee University. He earned his BS in Mechanical Engineering from TSU, MS from Missouri Rolla as a GEM Fellow, and PhD from the University of Iowa as a CIC Fellow. He is a strong advocate for K-12 education and mentoring tenure-track minority faculty.

**Megan Tesene, Ph.D.** is the Associate Director for the Personalized Learning Consortium at the Association of Public and Land-grant Universities. Megan directs the Adaptive Courseware for Early Success grant for the Personalized Learning Consortium. Her work centers on enhancing pedagogy, closing achievement gaps, improving accessibility, and ensuring that students from all walks of life have the support and resources necessary to graduate. She has a Ph.D. from Georgia State University and a M.A. from the University of Northern Iowa.

**Robbie K. Melton, Ph.D.** is a tenured professor and transitional dean of Graduate School for Tennessee State University. She is also founder and CEO of ‘RobbieTech4Teach’. Dr. Melton is the Associate Vice Chancellor of Mobilization Emerging Technology for Tennessee Board of Regents (TBR) assigned to develop the system’s Strategic Emerging IOE Technology Planning and provide system-wide Professional Development and Faculty Training related to education technology support and services for teaching, learning, training, and workforce development, product testing, pilots and research. Melton is currently overseeing research regarding the ‘Emerging Technology of The Internet of Everything (IoE) of Smart Connected Devices and Mixed Reality Technologies’ (VR/AR/Holograms/Wearables) for enhancing teaching, improving learning, and increasing workforce productivity; curating IOE Smart Educational Devices, Gadgets, and Tools; and primary investigator for HBCU OER Affordable Learning Solutions Pilots and OER Workforce Skills Commons Resources. She is an international speaker and the recipient of numerous awards.

**Dr. Paige Smith** is the Program Director in the Division of Engineering Education & Centers for the National Science Foundation. Paige Smith has served as the Director of the Women in Engineering Program at the University of Maryland. She has over 20 years of experience with recruiting and retaining diverse populations in engineering. She is a Past President for the Women in Engineering ProActive Network (WEPAN). Paige was selected by the President’s Commission on Women’s Issues at the University of Maryland to be the 2014 Outstanding Exempt Staff Member. In 2009 she was awarded the WEPAN Distinguished Service Award. She holds a BS in Engineering Science and Mechanics, an MS and PhD in Industrial & Systems Engineering all from VA Tech.
Dr. Lesia Crumpton-Young is the Vice President for Research and Institutional Advancement at TSU serving as the University's Chief Research Officer and assists the President in the development of the vision, direction, and guidance of the University's research mission and policy formulation. Additionally, she provides oversight for the research process, education and creative thinking, as well as promotes the creation of an environment that encourages and supports leading-edge scholarly research. Dr. Crumpton-Young has held former positions as the Director of the Center for Advancing Faculty Excellence at the University of Central Florida, the Associate Provost at Texas A&M University, Program Director in the Education and Human Resource Directorate of the National Science Foundation, and Associate Dean of Engineering at Mississippi State University. She is prolific writer and the recipient of the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring. Dr. Crumpton-Young holds a Ph.D., an M.S. and a B.S. in Industrial Engineering from Texas A&M University.

Dr. Saundra Johnson Austin is President and CEO of Charis (pronounced Care-Us) Consulting Group LLC founded in 2007. She held leadership positions in education (The Pennsylvania State University and St. Michal’s High School), non-profits (NACME, The National GEM, Community Partnership for Lifelong Learning, and the YWCA Silicon Valley), and industry (Bechtel Power Corporation). In 2015, she was awarded Outstanding Engineering Alumnus for Civil and Environmental Engineering at Penn State University. She holds a doctorate in education (University of Southern California), MBA (Notre Dame), and BS in Civil Engineering (The Pennsylvania State University). She is a member of NAMEPA and ASEE. Mentoring girls and young professionals in STEM is her favorite past time.

Dr. Fay Cobb Payton is a Program Director at the National Science Foundation (NSF) in the Division of Computer and Network Systems, Directorate for Computer for Computer and Information Science and Engineering (CISE). At the NSF, she is working with a group of leaders on programs involving Computer Science for All, Broadening Participation in Tech/STEM, Smart and Connected Health, Ethics in Computing and others. She is also a Full Professor (with Tenure) of Information Technology/Systems at North Carolina State University and was named a University Faculty Scholar for her leadership in turning research into solutions to society’s most pressing issues. Dr. Cobb Payton is a global speaker and presenter, workshop facilitator, consultant, is well-published in her field, and founding director of @myhealthimpact, a social network experience that focuses on health disparities and social media technology interventions. She was named the 2016 North Carolina Technology Association Tech Educator of the Year. She earned a Ph.D. in Information & Decision Systems (with a specialty in Health Care Systems) from Case Western Reserve University. Prior to joining academe, she worked in corporate IT and consulting at IBM, Ernst & Young/Cap Gemini and Time, Inc. Dr. Payton was featured and/or cited in several media outlets (Ageism, Hidden Figures, MyHealthImpact, HealthCare IT, etc.) for her mentoring work and inclusion in the tech.
Association of Public and Land-grant Universities

APLU is a research, policy, and advocacy organization dedicated to strengthening and advancing the work of public universities in the U.S., Canada, and Mexico. With a membership of 237 public research universities, land-grant institutions, state university systems, and affiliated organizations, APLU's agenda is built on the three pillars of increasing degree completion and academic success, advancing scientific research, and expanding engagement. Annually, member campuses enroll 4.9 million undergraduates and 1.3 million graduate students, award 1.2 million degrees, employ 1.2 million faculty and staff, and conduct $43.9 billion in university-based research.

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