

National Academies of Sciences, Engineering, and Medicine Professional Societies - Shifting Cultures - Supporting Black Students through their SEM Career Journeys

Iris R. Wagstaff, PhD
STEM Program Director
Inclusive STEMM Ecosystems for Equity & Diversity (ISEED)
May 3, 2022

# The American Association for the Advancement of Science (AAAS)

### **Journal**



### **Mission**:

"advance science, engineering, and innovation throughout the world for the benefit of all people."

### **Diversity, Equity & Inclusion**

- Entry Point
- SEA Change
- IF/THEN Ambassadors
- L'Oréal USA Fellowships For Women in Science

### **For More Information**

- AAAS Website <a href="https://www.aaas.org/">https://www.aaas.org/</a>
- Science Careers <a href="https://www.sciencejobs.org/">https://www.sciencejobs.org/</a>



# **PROGRAMS & INITIATIVES**





# **Emerging Researchers National Conference in STEM (ERN)**



- Award: NSF HBCU-UP
- Goals/Objectives:
  - Prepare a diverse cadre of students for global careers in STEM
  - Hone science communication skills
  - Provide a platform for PD and networking
  - Support community, science identity, and sense of belonging in STEM

- Registration opens: August 2022 check https://emerging-researchers.org/
- 2023 ERN Conference targeted for Feb/March

- Twitter <a href="https://twitter.com/ERNConference">https://twitter.com/ERNConference</a>
- LinkedIn <a href="https://www.linkedin.com/company/emerging-researchers-national-conference-ern/?viewAsMember=true">https://www.linkedin.com/company/emerging-researchers-national-conference-ern/?viewAsMember=true</a>

**Education & Career Fair** 



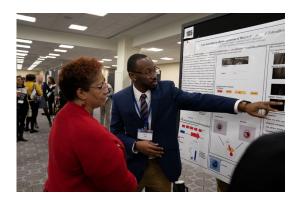
Student & Faculty Professional Development Workshops

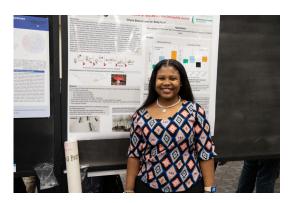
### **ERN Conference Activities**





Community Building & Sense of Belonging





**Student Oral & Poster Research Presentation Competition** 

# **External Advisory Board**



Dr. Anissa Buckner Univ of Arkansas Pine Bluff



Dr. Christine Grant AIChE and NSF



Dr. Omar Movil Univ Puerto Rico



Dr. Zakiya Wilson-Kennedy LSU



Dr. Gregory Triplett
Virginia Commonwealth Univ



Dr. Delia Valles-Rosales New Mexico State Univ



Dr. Kelly Mack AAC&U



Dr. Willie Rockward Morgan State Univ



Dr. Carol Davis
Tribal Nations Research Group



Dr. Sharon Kennedy Colgate-Palmolive

## ERN Engagement & Impact: 2011 - 2020







> 7,000 Students > 5,000 Presentations



> 3,000 Student Travel
Awards



~ 230 Institutions





TRANSFORM



AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

# Enhancing HBCU Making and Innovation Capacity via an Inclusive Community of Practice

- Support HBCU students and faculty in making, innovation, entrepreneurship and invention efforts
  - AAAS HBCU Making & Innovation Showcase
  - Year-Long Virtual Monthly Engagements
  - E-Mentoring & Coaching
  - HBCU Making & Innovation Resources Toolkit
- HBCU-UP NSF Grant No. 2037362
- Website https://iie.aaas.org/about-aaas



AAAS HBCU Making & Innovation Twitter: @AAASMaker https://twitter.com/aaasmaker

AAAS HBCU Making & Innovation LinkedIn Page: https://www.linkedin.com/groups/8954208/

# **Advisory Board**



Brandon Andrews
Shark Tank



Quincy Brown, PhD
Director of Innovation, OSTP &
Executive Director, BlackcomputeHer



Laura Collins, PhD Director IP
Development & Commercialization,
NC A&T Office of Technology
Transfer



Dorothy Jones-Davis, Executive Director, Nation of Makers



Ellie Fini, PhD
Assoc Professor, Sustainability
Arizona State University



LaKisha Greenwade Founder, CEO Wearable Tech Ventures



Ron Williams, PhD
Founding Director of the Center
for Strategic Entrepreneurship
Coppin State University



Joyce Ward
Director, Office of Education,
USPTO

### **Impact and Engagement**

### **2020 Innovation Showcase**



### **2021 Showcase Cohort**



### **2022 Showcase Cohort**



- 241 HBCU students (125 male, 116 female)
- 83 HBCU faculty
- 32 HBCUs
- 12 of the 17 UNSDGs addressed
- Over 75 PD, mentoring and coaching sessions convened

### **Access to STEM Luminaries**











5/25/2022

# ORGANIZATIONAL DEI EFFORTS

## **Public Facing DEI Efforts**

#### **SEA Change**

f

SEA Change - See change with STEM Equity Achievement



#### AAAS CEO Statement on #ShutDownSTEM and Black Lives Matter

f 🗷

9 June 2020 by: Sudip Parikh



HOME | NEWS

#### Emerging Researchers Program Unites Underrepresented Students with STEM Leaders

f 🗷

21 May 2020 by: Andrea Korte



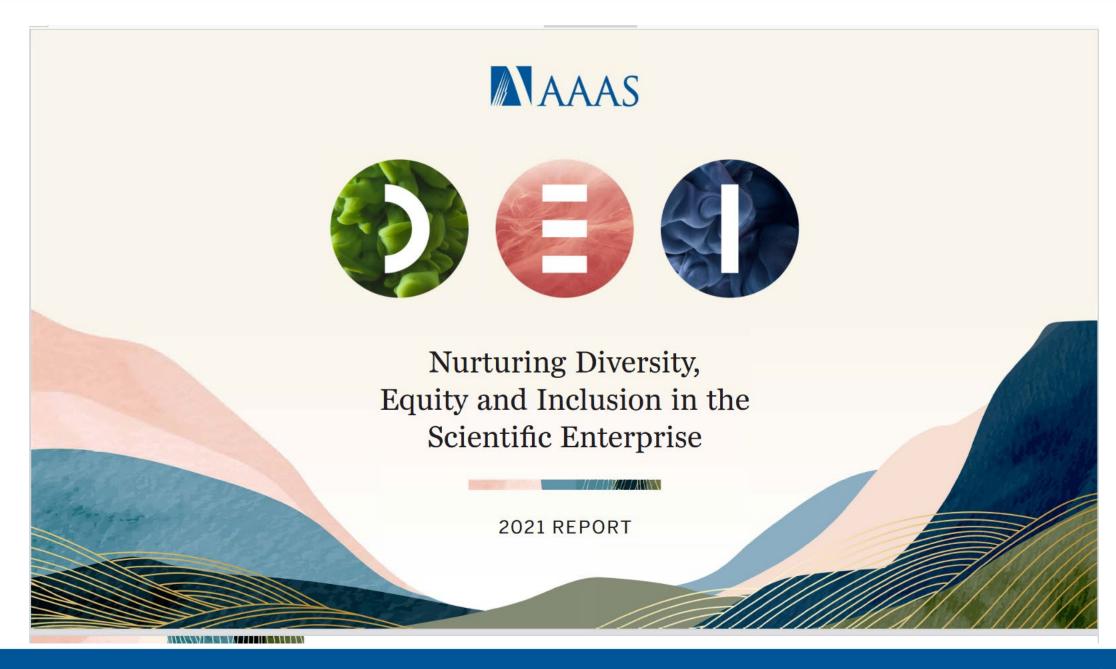
#### **A View From My Basement**

AAAS CEO Reflects on His First 6 Months on the Job

f 🗷

26 June 2020 by: Sudip Parikh





#### 

### How We Do It

### **Three Tracks to Drive Progress**

# DEMOGRAPHIC REPORTING & ACCOUNTABILITY (MIRROR)



AAAS/Science collection of data on demographic representation in our functions that enable success and advancement in science and engineering

# AAAS ADVOCACY & PROGRAMS (EXTERNAL)



AAAS/Science programs, initiatives and advocacy to increase diversity, equity and inclusion in science and engineering and address systemic challenges throughout the scientific enterprise

# AAAS DEI ACTIONS (INTERNAL)



AAAS/Science actions to ensure diversity, equity and inclusion within the organization

### **2023 AAAS Annual Meeting**

### **SCIENCE FOR HUMANITY (2)**



SUBMIT A PROPOSAL	UPDATES	PROGRAM	E-POSTERS	SPONSORS
2022 PLATFORM	2022 LECTURES	2023 THEME	2023 SESSION PROPOSALS	

#### Submit a Proposal for the 2023 AAAS Annual Meeting by June 16!



Gilda A. Barabino, AAAS President and Chair, 2023 Annual Meeting Dear Science & Technology Community,

I am thrilled to announce that the 2023 AAAS Annual Meeting will be held virtually and inperson in **Washington**, **D.C.**, **March 2-5**, 2023.

The meeting will highlight groundbreaking multi-disciplinary research that advances knowledge and responds equitably to the needs of humanity. I invite you to **submit a proposal** for Scientific Session Panels or 10-Minute Lightning Talks **before June 16**, **2022 or** Workshops before **July 25**, **2022!** 

#### **Scientific Session Panels**

Experts from different facets of the science and technology community assemble to compare notes during discussions about groundbreaking multi-disciplinary research that advances knowledge and responds to the needs of society. Accepted panelists will record a 10-15-minute spotlight video introducing key data and findings they will highlight in the panel conversation.

#### 10-Minute Lightning Talks

These live in-person short presentations offer individuals the opportunity to offer data and insights on any sci/tech topic relevant to those attending the AAAS meeting—discoveries, innovation, or policy.

#### Workshops

These instructional or informational sessions will highlight opportunities or resources available to enhance or augment careers paths or advocacy efforts.

Also, please mark your calendars for the opening of the Student E-poster Competition submission site in Spring/Summer 2022. We are so looking forward to connecting with our friends and colleagues again. Even if you cannot join us in-person, there will be multiple options to engage virtually.

A Barabino

Gilda A. Barabino

AAAS President and Chair, 2023 Annual Meeting
President and Professor, Olin College of Engineering

