

2018
BEYA
PRESSKIT



Change Makers:
WORLD
I M P A C T

Save the Date:

The 2018 BEYA STEM Conference will take place Feb 8-10 in Washington, D.C.

Mark your calendars for the 2018 BEYA STEM Conference!

Science, technology, engineering and math (STEM) professionals will gather at the 32nd Annual BEYA STEM Conference, scheduled for February 8–10, 2018, at the Washington Marriott Wardman Park in Washington D.C.

The BEYA STEM Conference, which is hosted by Career Communications Group’s USBE&IT Magazine, Lockheed Martin Corporation, and the Council of Engineering Deans at Historically Black Colleges and Universities, and sponsored by Aerotek, is a talent-rich environment for recruitment, networking and professional development. In attendance are college representatives, professionals and students in STEM disciplines and careers.

Students can attend the Career Fair and meet employers, take advantage of onsite resources designed to enhance job search, as well as to get tools for a successful STEM career. Sponsors and exhibitors will recruit new hires.

Other events at BEYA that you will want to check out are the professional development seminars and workshops, and HBCU Engineering school presentations, which provide an opportunity to learn about the cutting-edge research that are taking place at historically black colleges and universities (HBCUs).

The BEYA STEM Pre-College Program is an opportunity to connect with organizations that are working to build tomorrow’s STEM workforce. And whether you are in the job market or not, don’t miss the Career Fair. It is often the place to sample some new technologies and experience best practices in the industry. BEYA STEM offers training, networking, role models, mentors, and inspiring awards events. Registration is now open at the BEYA STEM Conference.



Location and Contacts

Conference Dates: February 8–10, 2018

Conference Location: Washington Marriott Wardman Park, 2660 Woodley Road NW Washington DC, 20008

Conference Co-hosts: Lockheed Martin Corporation, The Council of HBCU Engineering Deans, *US Black Engineer & Information Technology* magazine.

Sponsored by: Aerotek

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Facts and Figures

Addressing the inequities of diversity in technology and science is the goal of BEYA. As the United States of America continues to graduate fewer engineers when compared to countries like China and India, our nation will continue to see our presence as a global power diminish.

By increasing the awareness of this key pipeline issue and highlighting the business and economic imperatives for including all of our population in the STEM workforce, BEYA can help provide opportunities and inspiration for our current and future workforce.

- The United States graduates roughly **70,000** engineers each year while China produces **600,000** and India produces **350,000**.
- Although African Americans make up about 13 percent of the U.S. population, they earned just **5.2 percent** (3,673) of the engineering degrees awarded to U.S. citizens (70,749) in 2006.
- Hispanic Americans, representing about 14 percent of people in the United States, earned approximately **7 percent** (4,957) of engineering degrees. Asian Americans, by contrast, make up a little more than 4 percent of the population, but received **13.7 percent** (9,719) of those degrees during the same year.
- According to a study by the Inside Hire Ed, only **22 percent** of Latino students, **18 percent** of Black students, and **19 percent** of Native American students that enter college with a STEM major graduate with a STEM degree within five years. Over **33 percent** of Caucasian students and **42 percent** of Asian students graduate with STEM degrees within five years.
- U.S. undergraduate engineering majors are a shrinking proportion of the total, down from 6.8 percent to about **4.5 percent** over the past 20 years.
- Minority students are more than twice as likely to switch to other majors, as are white and Asian students.
- According to a survey by Diverse Education, **77 percent** of people surveyed said significant numbers of women and underrepresented minorities are missing from the U.S. STEM work force today because they were not identified, encouraged or nurtured to pursue STEM studies when they were young.
- **40 percent** of women and underrepresented minority engineers reported that they had been subjected to discouragement during their STEM education and career.
- Turnover costs employers. Turnover costs range between 150 and **193 percent** of a manager's or professional's annual salary.



About Career Communications Group

Career Communications Group, Inc., is an industry-leading media company that supports companies and employers in promoting multiculturalism and diversity in STEM (science, technology, engineering and mathematics) fields through major national conferences, publications and websites.

As nationally-renowned experts and thought leaders in the field, Career Communications Group (CCG) delivers broad-based, creative diversity solutions to employers, as well as provide consultative support and expertise with their internal strategies and programs.

CCG is a multifaceted organization that has two primary components. Our for-profit side promotes workforce diversity through quality publications, national conferences and interactive websites. These provide key channels and forums for professionals from under-represented communities to network, communicate and interact, as well as venues for recognition. Our non-profit side helps increase student (K-12) awareness and future participation in STEM fields.

CCG publishes three highly recognized magazines:

- *US Black Engineer & Information Technology*
- *Women of Color Magazine*
- *Hispanic Engineer & Information Technology*

CCG produces two national conferences:

- BEYA STEM Conference
- Women of Color STEM Conference

CCG publishes several websites, including www.ccgmag.com and www.blackengineer.com

About Council of Engineering Deans of the Historically Black Colleges and Universities

Focusing on the HBCUs that make up the Council of Engineering Deans is strategic and cost-effective because they graduate a significant number of minority engineers. Through cultivating partnerships with HBCUs, employers can attain a truly diverse workforce—a necessary ingredient for the future. Diversity is what keeps engineering innovations and designs in tune with the diverse society they represent.

About Lockheed Martin Corporation

Lockheed Martin is a global security company that employs about 123,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

For more information, please visit:

www.beya.org

www.ccgmag.com

www.blackengineer.com

Facebook:

www.facebook.com/USBEIT

Twitter:

twitter.com/diversitynews

YouTube:

[Youtube.com/lexusccg2514](https://www.youtube.com/lexusccg2514)

Alicia Boler Davis Selected 2018 Black Engineer of the Year

General Motors executive will be the sixth woman in the 32-year history of the scientific and technical awards to be named Black Engineer of the Year

Baltimore, October 2017— US Black Engineer (USBE) magazine's annual BEYA STEM Conference will recognize GM Executive Vice President, Global Manufacturing Alicia Boler Davis with the Black Engineer of the Year Award on Saturday, Feb. 10, 2018, at the BEYA Gala in Washington Marriott Wardman Park in Washington, DC.

Aligned with the mission of USBE, one of the oldest diversity magazines for scientific and technical careers, and USBE's BEYA STEM Conference that promotes achievement and career opportunities in science, technology, engineering, and math (STEM) fields, Ms. Boler Davis is active in providing inspiration and motivation for middle school girls who like math and science, mentoring at General Motors, and speaking to college students on leadership, and driving change.

Numerous organizations and publications have recognized Boler Davis for her community service. She serves on the board of directors at General Mills, is a member of the Northwestern University McCormick Advisory Council and a board trustee of the Care House of Oakland County. Boler Davis also serves as Executive Liaison for the GM WOMEN leadership board.

Alicia Boler Davis was named executive vice president, General Motors Global Manufacturing in June 2016. Her responsibilities include manufacturing engineering and labor relations. She is a member of the GM Senior Leadership Team and the GM Korea Board of Directors. She reports to GM CEO and Chairman Mary Barra.

Prior to this assignment, Boler Davis was senior vice president, Global Connected Customer Experience since December 2014, where she led the company's connected customer activities, including infotainment, OnStar and GM's Urban Active personal mobility initiatives.

In February 2012, Boler Davis was appointed U.S. vice president, Customer Experience. Later that year, her role was expanded to vice president, Global Quality, and U.S. Customer Experience. Under her leadership, GM improved vehicle quality and fundamentally redefined customer care and its interaction with customers through social media channels and Customer Engagement Centers.

Previously, Boler Davis was simultaneously the Plant manager of the Michigan Orion Assembly and Pontiac Stamping facilities, as well as vehicle line director and vehicle chief engineer, North America Small Cars, positions she held until January 2012. Prior to that, she was plant manager at the Lansing, Mich., Consolidated Operations and Arlington Assembly in Texas, where she was the first African-American woman to be a plant manager at a GM vehicle manufacturing plant.

Boler Davis began her GM career in 1994 as a manufacturing engineer at the Midsize/Luxury Car Division in Warren, Mich. During her career, she has held many positions of increasing responsibility in Manufacturing, Engineering and Product Development.

Boler Davis has a bachelor's degree in chemical engineering from Northwestern University, a master's degree in engineering science from Rensselaer Polytechnic Institute and an MBA from Indiana University.

When Boler Davis accepts the torch as the thirty-second Black Engineer of the Year in the nation's capital February 2018, she will be the sixth woman to receive this award from the Council of Engineering Deans of the nation's Historically Black Colleges and Universities, which graduate more than 33 percent of all black engineers in the United States.

The list includes Shirley Ann Jackson, president of Rensselaer Polytechnic Institute, Wanda Austin, former president and CEO of The Aerospace Corporation, Lydia W. Thomas, former president and CEO of Mitretek Systems (now Noblis), and Stephanie C. Hill, senior vice president of Corporate Strategy and Business Development at Lockheed Martin Corporation, a longtime corporate supporter of the annual BEYA STEM Conference.

As the 2018 Black Engineer of the Year nominee, Boler Davis is recognized as a global ambassador of goodwill for underrepresented minorities in science and technology, and for women in science, technology, engineering, and math (STEM). She will keynote the 2018 Council of Engineering Deans of Historically Black Colleges and Universities meeting at one of the historically black colleges and universities with ABET-accreditation.

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2018 BEYA STEM Winners

Black Engineer of the Year

MRS. ALICIA BOLER DAVIS

Executive Vice President
Global Manufacturing
General Motors

Career Achievement - Industry

DR. CHARLES JOHNSON-BEY

Director, Engineering and Technology
Cyber Center of Excellence
Lockheed Martin Corporation

Career Achievement - Government

MR. TIMOTHY K. BRIDGES

Assistant Deputy Chief of Staff for
Logistics, Engineering and Force Protection
U.S. Air Force

Community Service - Industry

MR. STEVEN BROWN

President of Dreams, Imagination & Gift Development
Program (DIG)
Gas Turbine Controls Engineer
General Electric

Dave Barclay Affirmative Action

MR. DARRYL FARROW

Director, Global Diversity & Inclusion
The Boeing Company

Dave Barclay Affirmative Action

MR. DREW VALENTINE, ESQ.

Vice President, People & Culture
IBM Systems

The Dean's Award

MR. DEREK MCGOWAN

Diversity Outreach Program Manager
Lockheed Martin Corporation

Education Leadership/K-12 Promotion of Education

MS. TOKIWA SMITH

Founder and Executive Director
Science, Education, and Mathematics Link, Inc. (SEM
Link, Inc.)

Educational Leadership/College-Level Promotion of Education

DR. TERRI R. NORTON

Associate Professor
University of Nebraska-Lincoln

Lifetime Achievement Award

MR. JOSEPH B. ANDERSON, JR.

Chairman and CEO
TAG Holdings, LLC

Most Promising Engineer - Industry

MS. CHANDRIA POOLE

Deputy Program Manager
Northrop Grumman Corporation

Most Promising Engineer - Industry

MR. HAMZA H. SYED

Lead Multi-Discipline Systems Engineer
The MITRE Corporation

Most Promising Engineer - Government

CAPTAIN JASON FISCHBACH

Lead Engineer
Power, Space and Cooling
U.S. Air Force

Most Promising Engineer - Government

MS. LAANDREA MCDONALD SEAY

Ballistic Missile Defense System (BMDS) Test
Data Manager
Missile Defense Agency

Outstanding Technical Contribution - Industry

MR. KENT ETIENNE

Technical Lead Engineer
Senior Mechanical Test and Evaluation Engineer
Boeing Test and Evaluation

Outstanding Technical Contribution - Industry

MRS. ARISSA HODGES

Group Leader/Lead Communications Engineer
The MITRE Corporation

Outstanding Technical Contribution - Government

MR. REGINALD L. WILLIAMS

THAAD Post-Production and Sustainment Lead
Missile Defense Agency

Professional Achievement - Industry

MR. ERIC BIRIBUZE

Product Line Lead
Corning Incorporated

Professional Achievement - Industry

MRS. KATHRYN HAMILTON

Engineering Program Manager
Northrop Grumman Corporation

Professional Achievement - Government

MR. BYRON WILLIAMS, PMP

Chief, Project Management Branch
U.S. Army Corps of Engineers, Galveston District

Research Leadership

MR. ANDREW ADAMS

Chief Engineer
Wireless Capabilities Group
The Johns Hopkins University Applied Physics
Laboratory

Senior Technology Fellow

DR. NATHAN RAEN BROOKS

Associate Technical Fellow
Technical Lead Engineer
The Boeing Company

Senior Technology Fellow

DR. JON C. GOLDSBY

Research Physicist
NASA Glenn Research Center

Student Leadership/Undergraduate Level

MR. BRIGHT TSAGLI

College Assistant
Bronx Community College

Student Leadership/Undergraduate Level

MR. DAVID HILL

Student, Howard University
Worldwide Sales Engineer Intern
Cisco Systems

Technical Sales and Marketing

MR. KAROOM BROWN

Senior Vice President
Business Development & Strategy
Leidos Health

Rodney Adkins Legacy Award

MS. VERETT MIMS

Assistant Treasurer
Global Treasury Operations
The Boeing Company

Arlington W. Carter Legacy Award

MRS. APRIL SANDERS

Senior Manager Space and Airborne Systems
Raytheon Company

Erroll B. Davis, Jr. Legacy Award

MR. TAIWO ALO

Manager Performance Assessment Group
Baltimore Gas & Electronic - an Exelon Company

Dr. Eugene M. Deloatch Legacy Award

MR. JONATHAN JONES

Fermentation Improvement Engineer
Dow AgroSciences

Dr. Freeman Hrabowski III Legacy Award

MS. YVETTE MOUTON, ESQ.

Supplier Diversity Manager
AT&T

Linda Gooden Legacy Award

DR. GREGORY BRAXTON

Computer System Security Analyst 3
Huntington Ingalls Industries

Dr. Shirley Ann Jackson Legacy Award

MS. STACY MATTHEWS

Software Engineer/Systems Analyst
Verizon IT Digital Platforms
Verizon Wireless

Anthony R. James Legacy Award

MRS. CASSANDRA WHEELER

Plant Manager
Georgia Power Company

General Lester L. Lyles Legacy Award

DR. ROY S. JONES

Senior Scientist
Leidos

Dr. John Slaughter Legacy Award

MS. LATISHA DURHAM

E-2D Integrated Navigation, Controls, and
Displays Systems Lead
Naval Air Systems Command

David Steward Legacy Award

MR. RAMON RICHARDS

Senior Vice President-Securitization and
Servicing Technology
Fannie Mae

Dr. Lydia W. Thomas Legacy Award

MR. JOSEPH MOORE

Principal
The MITRE Corporation

Edward Welburn Legacy Award

MR. ERIC BURNETT

Chief Engineer - Rear Wheel Drive 8 Speed Automatic
Transmissions
FCA US LLC

Dr. William R. Wiley Legacy Award

MR. DAVID SAMUEL

R&D Computer Aided Design
Principal Level
Sandia National Laboratories

General Johnnie Wilson Legacy Award

MS. JACQUELINE MARTIN

Hardware-in-the-Loop Lab Operations Lead &
STEM Ambassador
Missile Defense Agency