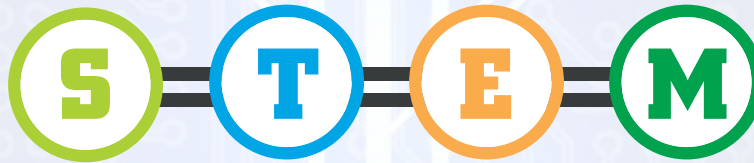


The 29th

BEYA



Global Competitiveness
Conference



BEYA STEM Conference 2015 Will Convene STEM Leaders, Professionals and Students to Recognize Achievements, Discuss Key Issues Facing the STEM Industry

Washington, D.C. — More than 8,000 of America's brightest minds in science, technology, engineering and math (STEM) will gather for the 29th BEYA STEM Global Competitiveness Conference on Thursday, February 5 through Saturday, February 7, 2015 at the Washington Marriott Wardman Park.

The Black Engineer of the Year Awards (BEYA) is the largest gathering of STEM professionals and leaders committed to increasing the percentage of people from historically under-represented communities in the technology workforce.

The conference will recognize a number of technology leaders for their achievements and efforts in strengthening the STEM pipeline. Among them is 2015 Black Engineer of the Year award recipient Edward Welburn, vice president, Global Design, General Motors Company. More than 30 other BEYA category winners will be recognized.

Easily the most anticipated diversity event of the year, the BEYA STEM Conference is a talent-rich environment for recruitment, networking and professional development. The conference will host panelists and speakers, including STEM leaders and policymakers.

In attendance will be college representatives, professionals and students from across the country who represent the upper echelon of the STEM disciplines and careers.

Location and Contacts

Conference Dates: February 5-7, 2015

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

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.

Schedule of Events

Thursday, February 5, 2015

5:30 – 7 p.m. **Alumni Welcome Reception**
Maryland Suite-Lobby Level

7 – 9 p.m. **Trailblazer & Emerald Honors Dinner**
(Ticket Required)
Thurgood Marshall Southwest Ballroom-
Mezzanine Level

Friday, February 6, 2015

8:45 a.m. – 3 p.m. **Veterans Transition Initiative**
Madison- Mezzanine Level

9 a.m. – 4 p.m. **BEYA Career Fair**
Exhibit Halls A, B South & C – Exhibition Level

Noon – 2 p.m. **Modern-Day Technology Leadership Luncheon (Ticket Required)**
Marriott Ballroom-Lobby Level

6 – 7:30 p.m. **BEYA Student Leadership Awards**
Thurgood Marshall Ballroom-Mezzanine Level

7 – 9:30 p.m. **Stars and Stripes Dinner (Ticket Required)**
Marriott Ballroom-Lobby Level

9 p.m. – 12 a.m. **Professional Networking Reception**
Maryland Suite-Lobby Level

Saturday, February 7, 2015

7:30 a.m. – 9:30 a.m. **HBCU Engineering Deans' Power Breakfast (Ticket Required)**
Marriott Ballroom-Lobby Level

10 a.m. – 4 p.m. **BEYA Career Fair**
Exhibit Halls A, B South & C- Exhibition Level

8 – 10 p.m. **BEYA Gala (Black Tie) (Ticket Required)**
Marriott Ballroom-Lobby Level



BEYA STEM Award Winners

2015 Black Engineer of the Year

Edward Welburn (Detroit, Michigan)

Vice President, Global Design
General Motors Company

Career Achievement - Government

Jacqueline Toussaint-Barker (Dayton, Ohio)

Chief, Commander's Action Group
Air Force Research Laboratory

Career Achievement - Industry

Ernest Levert (Highland Village, Texas)

Lockheed Martin Fellow
Lockheed Martin Corporation

Community Service

Debra Coleman (Renton, Washington)

Senior Electrical Systems Engineer
The Boeing Company

Corporate Promotion of Education

Tizoc Loza (Falls Church, Virginia)

Corporate Manager, Supplier Diversity
Programs/HBCU/MI/Gov't Relations
Northrop Grumman Corporation

Corporate Promotion of Education

Gayla Turner McMichael (Huntsville, Alabama)

Outreach and Diversity Program Manager
U.S. Army AMRDEC

Dave Barclay Affirmative Action

Ozzie Pierce (Chicago, Illinois)

Interim Vice President, Global Diversity and Employee Rights
Global Diversity and Employee Rights, Human Resources

Deans' Award

Marvin Carr (Owings Mills, Maryland)

Systems Engineer & Project Manager
Innovative STEM Solutions, LLC

Most Promising Engineer - Government

Lt. Andre Douglas (Arlington, Virginia)

Naval Architect/Salvage Engineering Response Team Duty Officer
U.S. Coast Guard

Most Promising Engineer - Industry

Jane Otero (Sudbury, Massachusetts)

Senior Systems Engineer II
Raytheon Company

Most Promising Engineer - Industry

Anthony Plummer, Ph.D. (Laurel, Maryland)

Section Supervisor
The Johns Hopkins University Applied Physics Laboratory

Outstanding Technical Contribution - Government

Marc Fulson (LA AFB, California)

Acting Deputy Branch Chief
U.S. Air Force

Outstanding Technical Contribution - Government

Doretha Green (Aberdeen, Maryland)

Technical Manager, Industrial Engineer, GS-13
U.S. Army



Outstanding Technical Contribution - Industry

Daby Sow, Ph.D. (Yorktown Heights, New York)

Exploratory Clinical Analytics and Systems
IBM Research

Outstanding Technical Contribution - Industry

Philip Lovell (Baltimore, Maryland)

Fellow Mechanical Engineer
Northrop Grumman Corporation

President's Award

Carol Bennett (Springfield, Virginia)

Senior Program Manager
General Dynamics

Professional Achievement - Government

Tiffany Rivera (Washington, DC)

Program Element Monitor
U.S. Air Force

Professional Achievement - Government

Michael Sterling, Ph.D. (Dallas, Texas)

Chief, Water Management & Infrastructure Safety Branch H&H
U. S. Army Corps of Engineers - SWD

Professional Achievement - Industry

Shelvy Marbury (Detroit, Michigan)

Area Manager Network Engineering
AT&T

Professional Achievement - Industry

Alejandro Diaz, Ph.D. (Huntington Beach, California)

Systems Engineer, Advanced Space Exploration
The Boeing Company

Technical Sales and Marketing

LoGina Davis (Suffolk, Virginia)

Senior Cloud Solutions Architect
AT&T Communications

BEYA STEM Award Winners

College-Level Promotion of Education

Emmanuel Collins, Ph.D. (Tallahassee, Florida)
Chair, Mechanical Engineering Department
FAMU-FSU College of Engineering

College-Level Promotion of Education

Pamela McCauley, Ph.D. (Orlando, Florida)
Professor and Director of the Ergonomics Laboratory
University of Central Florida College of Engineering
and Computer Sciences

K-12 Promotion of Education

Erica Watson (New London, Connecticut)
Science/STEM Teacher
New London Public Schools

K-12 Promotion of Education

Akua Kouyate-Tate (Vienna, Virginia)
Senior Director, Education
Wolf Trap Foundation for the Performing Arts

Special Recognition

Charles Kamhoua, Ph.D. (Rome, New York)
Work Unit Manager
Air Force Research Laboratory

Reginald Hobbs, Ph.D. (Adelphi, MD)

Associate Director for Experimentation, CISD
Army Research Laboratory (ARL)

Marvy Moore (Orlando, Florida)

AVP, Market Development,
Advanced Solutions - AT&T Business Solutions
AT&T

Bruce Davis (Detroit, Michigan)

Project Chief - Electrical Systems and
Components Vehicle Integration
Chrysler Group LLC

Michelle Blaise (Oakbrook Terrace, Illinois)

Senior Vice President of Technical Services
Exelon

Willie Castile (Huntsville, Alabama)

Manager of Missile Defense National Team
General Dynamics

Cindy Brock (Davenport, Iowa)

JMC Lead Safety Engineer
Joint Munitions Command

Karmyn Norwood (Powder Springs, Georgia)

Systems Engineering Director
Lockheed Martin Corporation

Zachary Barnett (Bellevue, Nebraska)

Engineer Software 3- Agile Lead
Northrop Grumman Corporation

David Canada (Seattle, Washington)

Finance Manager
The Boeing Company

Bryan Scott (Berkeley, Montana)

Director of Quality, Boeing Military Aircraft
Boeing Defense, Space & Security

Agnes B. Morrow (Vicksburg, Mississippi)

Chemist
U.S. Army Engineer Research and Development Center

Porscha Porter (Huntsville, Alabama)

Program Manager
U.S. Army Engineering and Support Center

Roderick Hambrick (Redstone Arsenal, Alabama)

Chief, Test Support Office
U.S. Army, Redstone Test Center

Community Service

Darnell Diggs, Ph.D. (Dayton, Ohio)

Special Assistant to the Commander and Executive Director
Air Force Research Laboratory

Most Promising Engineer

Jin Wang (San Francisco, California)

Director, New Technology Product Development Engineering
AT&T

Most Promising Scientist

Marco Enriquez, Ph.D. (Washington, DC)

Sr. Applied Mathematician
The MITRE Corporation

Most Promising Scientist - Government

Onome Scott-Emuakpor, Ph.D. (Beavercreek, Ohio)

Aerospace Engineer
Air Force Research Laboratory, Aerospace Systems

Most Promising Scientist - Industry

Justin McDade (Warren, Michigan)

Cell Simulation Engineer
General Motors Company

Jonathan Madison (Albuquerque, New Mexico)

Senior Member of Technical Staff
Sandia National Laboratories

Research Leadership

George Coles (Baltimore, Maryland)

Principal Professional Staff Scientist
The Johns Hopkins University Applied Physics Laboratory

Scientist of the Year

Julio Navarro, Ph.D. (Kent, Washington)

Senior Technology Fellow
The Boeing Company

Senior Investigator

Sharon Norris, Ph.D. (Renton, Washington)

Chief Physician, Occupational and Aerospace Medicine
The Boeing Company

Senior Technology Fellow

Anne Kao, Ph.D. (Seattle, Washington)

Senior Technology Fellow
The Boeing Company



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.

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/lexuscg2514

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.