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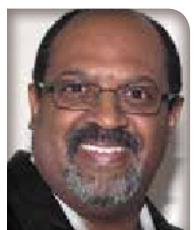
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## ABOUT NSBE

The National Society of Black Engineers (NSBE), with nearly 28,000 members, is one of the largest student-governed organizations in the country. NSBE's mission is to increase the number of culturally responsible black engineers who excel academically, succeed professionally and positively impact the community. NSBE comprises more than 200 chapters on college and university campuses, more than 80 Alumni Extension chapters and interest groups, and more than 60 NSBE Jr. chapters, in the U.S., Asia, Canada, Africa, England and the Caribbean. The U.S. chapters are divided geographically into six regions. NSBE had its genesis in April 1975. In 1976, NSBE was incorporated as a nonprofit organization in the State of Texas and also became recognized as a tax-exempt organization under Section 501 (c)(3) of the Internal Revenue Code.

The NSBE torch symbolizes our everlasting, burning desire to achieve success in this competitive society and to effect a positive change in the quality of life of all people. The lightning bolt represents the striking impact that will be felt by the Society and industry due to the contributions and accomplishments made by dedicated members of the National Society of Black Engineers.

For more information, visit [www.nsbe.org](http://www.nsbe.org)

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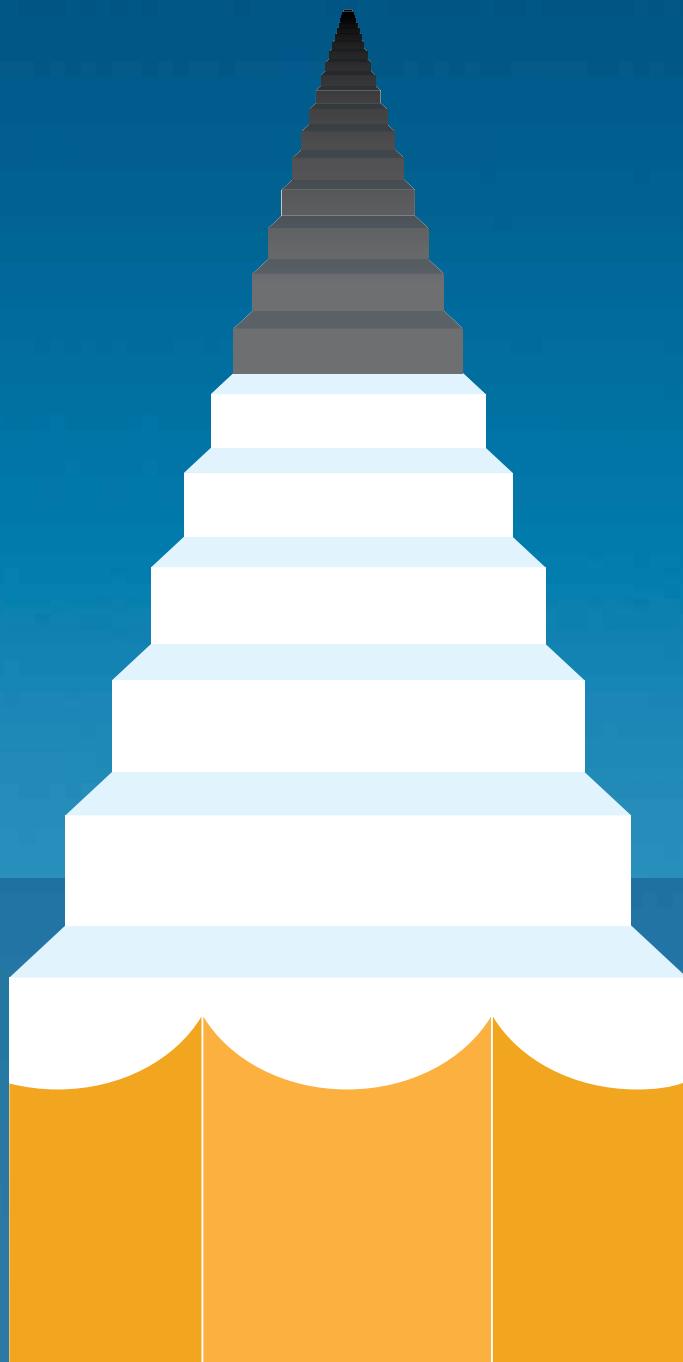
## Let's celebrate students who keep climbing.

Sixty percent of African-American students who begin science and technology degrees change their major to something else. ExxonMobil and the National Society of Black Engineers have partnered to present the Impact Award honoring universities that retain the highest percentage of minority students in engineering programs. That's why we are proud to congratulate the 2012 recipients: Michigan State University, University of Houston, University of Maryland College Park with an honorable mention to North Carolina A&T State University.

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# Your 4.0...Guaranteed!

By Calvin A. Young III

*NSBE National Chair*



I recently attended a chapter meeting at the University of Arkansas, where a video was shown of the chant the chapter recited during roll call at this year's Region V Fall Regional Conference. One line stuck out to me: "All I want for my birthday is a 4.0! All I want for my birthday is a 4.0!"

Surely, we all know this feeling. At the beginning of every semester, we proclaim that "This term will be different. This is my semester to shine in my classes." We begin with such great zeal, but then things disrupt that focus. Many can attest that being a NSBE leader or engaging in other worthy extracurricular activities sometimes brings stress and makes being a student even tougher! This coupled with a lack of study time, management skills or disciplined study partners equals a recipe for disaster that affects more than 65 percent of black engineering students, causing us to choose

tional Society of Black Engineers. Many thought I couldn't do it, but I knew I could. There was only one system that could help me make that happen: Guaranteed 4.0.

I took very seriously my preparation throughout the spring and summer, and executed the program last fall as outlined. I received a 3.85 GPA! What I learned from the program was how to study effectively. Fully participating in the program actually made my time management and studying easier. More than half of the members of the National Executive Board have benefited from the program, as well. So have thousands of students all over the world. In addition, the founder of the program is a former NSBE national chair. This program was born from NSBE! And because we want to see all NSBE members achieve this kind of academic success, NSBE has decided to look into incorporating the program into our chapters.

I encourage every chapter to make NSBE's Retention Program and Guaranteed 4.0 the cornerstones of your activities. I believe the future of NSBE lies in improving the retention rate and academic success of black engineering students. This means that each of us at every chapter must make *Academic Excellence* the main focus. One day, people will know NSBE as the place for the most academically strong and technically talented engineers in the world. It requires us all doing our part to ensure *Academic Excellence* is at the top of our chapters' and our personal agendas. ■

***"I encourage every chapter to make NSBE's Retention Program and Guaranteed 4.0 the cornerstones of your activities."***

between dropping a class or settling for a lower grade: very tough decisions that no one ever wants to make.

I discovered the Guaranteed 4.0 Learning System ([www.guaranteed4.com](http://www.guaranteed4.com)) for the first time as a senior in college. I briefly reviewed it but didn't take it very seriously. As a graduate student, I continued to hear the success stories of my peers who devoted to the system and heralded amazing results. GPAs were transformed from 2.7s and lower to 4.0s in one semester. I took in some of the techniques the system taught and even saw my own GPA improve, but still didn't fully commit. However, I knew I needed to give it my all. Upon my election as national chair, I knew I would be completing my master's degree, working in a full-time position, as well as serving the Na-

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# My Academic Comeback

By Khalia Braswell *Acting NSBE National Publications Chair*



**B**efore I arrived at NC State, I was told the following: "Don't let your GPA slip, because it will be hard to pull it up." Then, several upperclassmen gave me the same advice repeatedly during my first year. Why didn't I listen? Better yet, why didn't I take action to prevent problems with my grades? I'll never know the answer to those questions, but I can tell you what happened and why my GPA is so important to me now.

My lowest grade point average was 2.75. It was the end of my freshman year at NC State, and it felt like rock bottom. Once I reflected, I realized I was going about things

*"...I got my act together! I started going to office hours, began studying in groups, attended tutoring sessions and, most of all, put school first."*

the wrong way. I had too much on my plate, and I did not like my major, computer engineering!

What did I do? I changed my major to computer science. I took a very light academic load the next fall, realized my college courses were much more challenging than my high school classes had been, and I got my act together! I started seeing my professors during their office hours, began studying in groups, attended tutoring sessions and, most of all, put school first. As a result, my GPA rose to 2.92 by the end of my sophomore year.

Since then, I have raised my GPA to 3.08, and I even made the dean's list last semester. I can't describe how happy I was to finally get a 3.0, but I do need to explain why doing so meant so much to me. In engineering, some people do not expect us to have superior GPAs. My advisor told me that I was doing well with my 2.92. Of course, I looked at her sideways, because I know everyone doesn't feel that way.

For example, at the NSBE Annual Convention,

I talked to recruiters from several companies. They all loved me but said, "You need to get your GPA a little higher" or, "I would hire you, but you have to have a 3.0."

I know I started off wrong and let a number of things distract me from my road to success. But when I had recruiters basically telling me to "talk to the hand" with my 2.9-plus, I felt getting a 3.0 was a must! It wasn't that I needed a superior GPA to get an internship, obtain scholarship funds and be a student leader. I didn't. In fact, I served in leadership positions on campus, and I had multiple internship offers each summer after my freshman year.

So why was reaching my goal so important? It's simple. No one likes to be limited, so when someone constantly tells you "No," you do something about it! This was my motivation to do better. My mentor is a varsity basketball player, and she graduated with honors from the computer science department. So, why can't I?

As long as people understand you're working hard and trying your best, they'll understand your struggle and encourage you. Just don't settle for less than *Academic Excellence!* ■



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#### Saturday:

- T.O.R.C.H. LEGO Engine Build



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# College Initiative Bonds NSBE's Continuum

By Kameelah Samar Majied, PMP, NSBE National Alumni Extension College Initiative Chair

**N**SBE-AE's focus on professional development this year spans all segments of the overall organization, thereby boosting the College Initiative program sector. When AE Chair Darnell Fisher set forth this focus area, he emphasized talent development through the Pre-College Initiative, Collegiate and Alumni professional demographics. Chairman Fisher's focus area anchors NSBE National Chair Calvin A. Young III's national directive of *Professional Branding*, which calls for enhancing the value proposition for NSBE professional membership with professional development opportunities.

The combination of these goals has materialized in College Initiative programming. NSBE's College Initiative (CI) exists to:

- Promote the interaction of the NSBE Alumni members with the undergraduate and graduate members of the Society;
- Advocate and be portals for Alumni to pursue advanced degrees;
- Provide mentoring relationships for NSBE members through internships/coops; and
- Support graduating seniors' retention/transition efforts to the NSBE professional segment.

On the national political front, conversations about education are awash in STEM – science, technology, engineering and math. Since politicians have become much more aware of the value of STEM education, NSBE now has the perfect

platform to advance its mission and expand successful initiatives such as the Summer Engineering Experience for Kids (SEEK) and the Pre-College Initiative (PCI). AE members have their thumbprint on the job of converting undergraduates to successful professionals, and the role of Alumni is critical in creating the path from K-12 to college to the STEM professions.



## CI EFFORTS, BY REGION

In Region I, regional CI Chair Anita Rogers has been working to get mentoring programs off the ground. In the meantime, Region I AE Chair Ronald Wagogo visited more than 75 percent of the active undergraduate NSBE chapters. He has been vigilant in advocating for collegiate members to extend their NSBE lives into the professional realm.

In Region II, Keir Ham performs double duty as AE programs and CI chair. In the fall, he reported that AE members participated in the Region II zone summits, where they actively interfaced with the collegiate members. The AE members' goals have included emphasizing T.O.R.C.H. and PCI mentorship. At the Region II Fall Regional Conference, the AE "Transition to Alumni" workshop ushered attendees into an informative forum on the pathway to "Alumnihood." Another highlight was the Richmond AE chapter's support of the A Walk for Education event last fall, in which they worked closely with local collegiate chapters.

Region III AE College Initiative Chair Marvin Johnson has spearheaded his region's College Initiative Mentoring Outreach (CIMO) program. CIMO sets the stage for a straightforward mentoring relationship in which Alumni professionals and collegiate "mentees" are paired. Johnson says many of the mentor-mentee relationships began as result of the heavy Alumni presence at the Fall Regional Conference. CIMO takes flight during the first and second quarters of 2013.





Region IV AE Chair-Elect Ivy White has performed double duty as the region's CI chair. Under her guidance, this region has presented a number of successful College Initiative activities. She reports great collaboration between the Region IV Regional Executive Board and Regional Alumni Executive Board at the Fall Regional Conference. The heavy Alumni participation was evident in the packed Graduating Seniors Reception, which featured "speed networking" with Alumni professionals. Alumni and collegiate members teamed up to facilitate the workshops and judge the PCI competitions. The Region IV AE's annual "Boutique Upgrade You" at the NSBE Expo continued to provide Career Fair enhancements to all participants. Another highlight comes from the Indianapolis Alumni Extension Chapter, which has brought professional development speakers from top corporations, performed community outreach and mentoring through the Check 'n Chat Mentorship initiative, and more!

The Region V AE has co-CI Chairs Willie Williams and Derrick Collins to cover the entire lower Midwest "HOW Deep" area. With added guidance from Region V AE Chair Julius Hudson, CI activity has been rampant since the start of the NSBE program year! After attending the joint collegiate-Alumni Regional Leadership Conference, Alumni leaders were evermore equipped to impact the collegiate and PCI demographics. Notable CI-themed events included the Kansas City Alumni Extension Chapter's "Leadership in Business & NSBE" and the A Walk for Education event and Bechtel-sponsored Try-Math-A-Lon of the Houston AE. The Region V Fall Regional Conference was yet another display of PCI-collegiate-Alumni camaraderie.

The Region VI AE welcomed a new board

member in Maile Hadley, who performs dual duty as both CI and Professional Development AE chair. Hadley's impact on her positions has helped her region to emphasize *Professional Branding and Development* in ways that will benefit Alumni and collegiate members. This region has designed a four-part webinar series, with the theme of "Login-Learn-Grow Professionally." The first installment boasted heavy presence of both demographics, and all are looking forward to attending the remaining sessions!

The Alumni Extension's structure not only promotes participation of and input from the professional engineering community but also provides a mechanism for NSBE graduating seniors to continue their involvement with the organization. The AE's College Initiative extends and enhances each demographic's capacity to apply innovation in leadership, engineering/technology and career.

In President Obama's recent inauguration address, he said the following:

*"No single person can train all the math and science teachers we'll need to equip our children for the future, or build the roads and networks and research labs that will bring new jobs and businesses to our shores. Now, more than ever, we must do these things together, as one nation, and one people."*

NSBE-AE is well on its way to fulfilling President Obama's appeal for one community, one nation, all thriving through the power of STEM! ■

# Ghanaian Schools Vie in Science, Math Contest



(at left) The Adisadel College team receives first place honors at the NSBE-Ghana Science and Math Quiz in Koforidua, Ghana: (left to right) Tsagli Kwasi Bright; Asant Richard; Abdulai Imoro, Executive Director, NSBE-Ghana; Acheampong Kwabena Williams; Azuh Emmanuel Mensah; and Victor Klevor, Quiz Master and NSBE Accra Girls PCI Chapter Advisor

(below) The NSBE Accra High School PCI team ponders a question



The Science and Math Quiz initiative is designed to help students develop a positive attitude toward *Academic Excellence* and to stimulate enthusiasm about STEM.

**A**disadel College has been crowned champions in the first-ever National Society of Black Engineers-Ghana Science and Math Quiz, at the annual leadership conference of NSBE-Ghana. The conference was held at Koforidua, in the Eastern Region, last August. Adisadel, a Central Region-based, second-cycle (senior high school) institute bagged 72 points to beat the Koforidua Senior High Technical School, which placed second with 66 points. Accra High School came in third with 52 points, while Tarkwa Senior High School placed fourth with 48 points.

The students were rewarded with science books and science and educational materials to stock their libraries, as well as certificates of participation and souvenirs of NSBE-GHANA. The Science and Math Quiz initiative is designed to help students develop a positive attitude toward *Academic Excellence* and to stimulate enthusiasm about science, technology, engineering and mathematics.

The program also seeks to encourage senior high students to pursue degree courses in engineering and other technical fields, as well as create awareness of NSBE-Ghana among students. The country executive director of NSBE-Ghana, Imoro Abdulai, lauded the students for being extremely talented at this tender stage of their lives and urged them not to relent in their pursuit of science courses in school.

Abdulai said NSBE-Ghana would do all it could to make the study of science and its related courses a high item on the national agenda. ■

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## Inga Brathwaite of TMMTX Finding Fulfillment as a Quality Leader



Inga Brathwaite is more than an assistant manager in Quality Engineering at Toyota Motor Manufacturing Texas (TMMTX). She is an example of what can happen when caring professionals reach out to students to educate and inspire.

"I grew up in Dallas, and during my high school years, there were several people in the NSBE chapter who would come to our school and offer tutoring on Saturdays. That led me to participate in a 'day of engineering' program with the Dallas Chapter of the Texas Alliance of Minority Engineers (TAME). The TAME engineers came to our school and helped us with math and science. One of the engineers, Al Alexander, was instrumental in piquing my interest in engineering. Seeing those engineers take the time and effort to help us, along with the strong

***"Our culture is driven by respect and continuous improvement. We problem solve, but we respect people as we problem solve."***

support of my parents, made me want to become an engineer," she says.

Brathwaite did not begin her career with Toyota but worked for another automotive manufacturer as a group leader.

"When I got the opportunity to work for Toyota, I moved from Dallas to Evansville, Ind., where I started, because I *wanted* to work for Toyota. They're the leader in the industry," she notes. "Toyota sets the bar for quality, so why not work for the leader?"

Her initial experience with Toyota was somewhat surprising.

"It was totally opposite of the culture I came from. At Toyota, we do more with less and always pride ourselves on continuously improving our processes. Also, the focus is not to blame the next person or finger point. It doesn't matter whose fault it is. It just means something in the process is broken, and we need to fix it," she says.

"When I started out in Toyota in 2001, I was a group leader in Assembly. I loved being a group leader, because the team members have a lot of

pride in their work, and I enjoy problem solving," she says.

After two and a half years, she moved on to Quality Engineering, taking advantage of her mechanical engineering expertise. As her career continued to evolve, she moved to Texas to work with the developmental group, launching the new-generation Tundra. Afterward, she worked with the body quality engineering group for two years and then was promoted to assistant manager.

Toyota training programs, including leadership training, helped Brathwaite advance her career.

"I attended many leadership training classes covering a wide range of topics — situational leadership, diversity skills training, developing team members and also several personality development classes — learning how to communicate effectively with others," she says.

Another aid in developing her leadership skills was participation in one of Toyota's business partnering groups: the African American Collaborative.

"The groups allow people with like backgrounds to get together for training, communicate common problems and determine solutions," she says. "It also gives me a chance to mentor some of the group members."

In fact, Brathwaite has a formal mentor at Toyota who "validates my concerns and helps me discover innovative solutions by thinking outside of the box. My mentor experience is excellent. Toyota can provide a mentor for any team member who would enjoy the support of an experienced professional."

"One thing that sets Toyota apart is their loyalty to their employees," she says. "When we had an economic downturn in 2008, Toyota never laid off one person." Another differentiator she names is Toyota's integrity and work ethic. "We do what we say and follow through. We are very team-oriented. Our culture is driven by respect for people and continuous improvement. We problem solve, but we respect people as we problem solve."

Brathwaite says that some of the most satisfying aspects of working for Toyota are continuously learning and seeing her ideas come to life.

"I am empowered to make a difference," she says. "My opinion counts." ■

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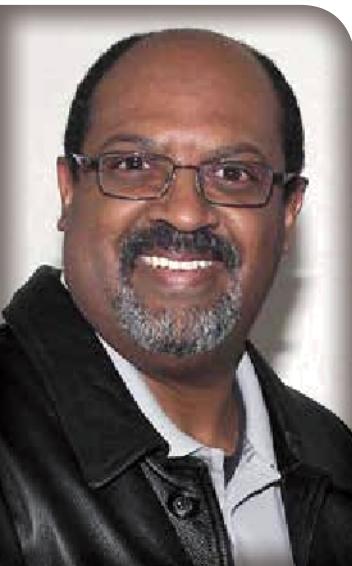
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# Jerome Brown, Engineering Manager

## Stoking the Engines at Aerojet

By Siobhan Leftwich



**J**erome Brown's first memories are of the late 1960s, when TV shows about astronauts and space exploration — not to mention space-related products such as Tang — were as numerous as today's reality shows. There was *I Dream of Jeannie*, *Lost in Space*, *Star Trek*, and *Land of the Giants* — not to mention actual trips to the moon by astronauts. So maybe it's not surprising that Brown landed at Aerojet: a major, Sacramento, Calif.-based space and defense contractor that specializes in missile and space propulsion, defense and armaments.

"I loved *Star Trek* when I was a kid," says the Concord, Calif., native, now 48. But this engineer in the making had no desire to be the starship captain. "I wanted to be Scotty, tinkering down in the engine."

Brown's interest in all things technical came

puter engineering professor who recommended me. I interned with them for two summers and ended up working there for 18 years," he says. "I realize there is a lot of pressure (on) engineering students to just get through school, but I advise students to diversify — join a club, take a computer science class, get projects from companies, and learn about product development before you enter industry."

He also urges college students to enroll in public speaking classes and take advantage of groups like NSBE and IEEE.

"Aerojet hires interns every summer," he says. "We look for students who are inquisitive, confident, ambitious and who bring drive and passion to their work." In return, Aerojet interns can look forward to working on real projects with seasoned engineers. "Our interns definitely hit the ground running," he says.

Brown says Aerojet is also committed to growing its employees.

"Our engineers have long tenures. We truly believe in ongoing career development here," he says, and notes that Aerojet engineers receive external and internal training, educational benefits and other resources that will help them develop and expand their skills. In addition, he says, the company is committed to creating a friendly, family-like environment.

Although he relishes serving as a mentor to professional and student engineers, the father of three is a hands-on guy at heart. Whether it's coaching his son's basketball team, rafting beautiful Northern California rivers or going to the ballpark with his wife to watch their beloved San Francisco Giants, Brown likes to be at the center of the action. And as an engineer at Aerojet, he's there.

"The most fulfilling part of my job is when a rocket fires, and it works," he says. "Nothing compares to watching that rocket go off. There's that 20-second turn, and exhilaration. Yeah, test completion is pretty nice." ■

**"Our engineers have long tenures. We truly believe in ongoing career development here."**

naturally. His father, a computer scientist, brought old computer tapes home for his kids to play with.

"I amused myself for hours with those tapes," he recalls. But it wasn't until 8th grade that he realized how much he enjoyed designing and building things, from the ground up.

"I took drafting on a whim. And I was passionate about it. I did all my homework before I even got out of school. I still have the triangle T-bar set at my parent's home," he says, laughing.

Brown went on to earn an electrical engineering degree, with an emphasis on computer engineering, from California State Polytechnic University, Pomona. Today, he manages the engineering design group responsible for creating Aerojet's machine intelligent control systems. He also manages the engineering development laboratory facility that produces electronic product prototype development and test system manufacturing.

Brown says his college internships were game-changers in his career.

"...I interned at Lockheed, thanks to a com-



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## Christina Barker of PGW

# Living a Philosophy of Achievement and Service

By Kevin M. Briscoe



**E**very day — sometimes multiple times per day — Christina Barker looks up from her desk and spies her personal philosophy: “Is what I am doing right now getting me closer to what I want to achieve?”

“If the answer is yes, I keep on going,” she says. “If the answer is no, I switch gears and get back on track. I write everything down; it makes my goals that much closer to being reality. Then, I make a plan and reevaluate when necessary.”

A graduate of Bucknell University and Drexel University with a B.S. in mechanical engineering and a master’s degree in engineering management, Barker is a senior staff engineer with Philadelphia Gas Works, the nation’s largest municipally owned natural gas utility. Employing

tive. “Then, at some point, you want to move up, and that means distinguishing yourself from the crowd. I overcome those challenges by continuing to gain as much knowledge in my field as possible, along with mentoring and networking.”

As a big part of her career enhancement plan, Barker obtained an engineer-in-training certification in May 2011, and is set to take the Professional Engineer exam. Both moves, she says, were endorsed by her colleagues and supervisors at PGW.

“It helps a great deal to know that my company supports my choice to go back to school and further my professional development,” Barker says.

Barker has been a member of NSBE since her freshman year at Bucknell.

“I really owe so much to NSBE. I was considering dropping engineering (as a major) until I went to the Anaheim convention in 2003,” she recalls. (But), the entire experience — from speakers to classes, to the new people I met — encouraged me to stay in the program and finish. I would say NSBE has had a profound impact on my life.”

Since 2002, Barker has served NSBE in leadership positions, including chapter treasurer, vice president and membership chair, in addition to serving on the board of directors of the Bucknell University Engineering Alumni Association. At PGW, she is a committee member with the Tech Association, a company affinity group developed to cultivate and retain engineers at PGW.

Her level of activity is testament to another personal philosophy: “Because I received so much support while in my curriculum, it was only right to give back in some way. Being involved in activities outside of work keep me whole and grounded.” ■

***“It helps a great deal to know that my company supports my choice to go back to school and further my professional development.”***

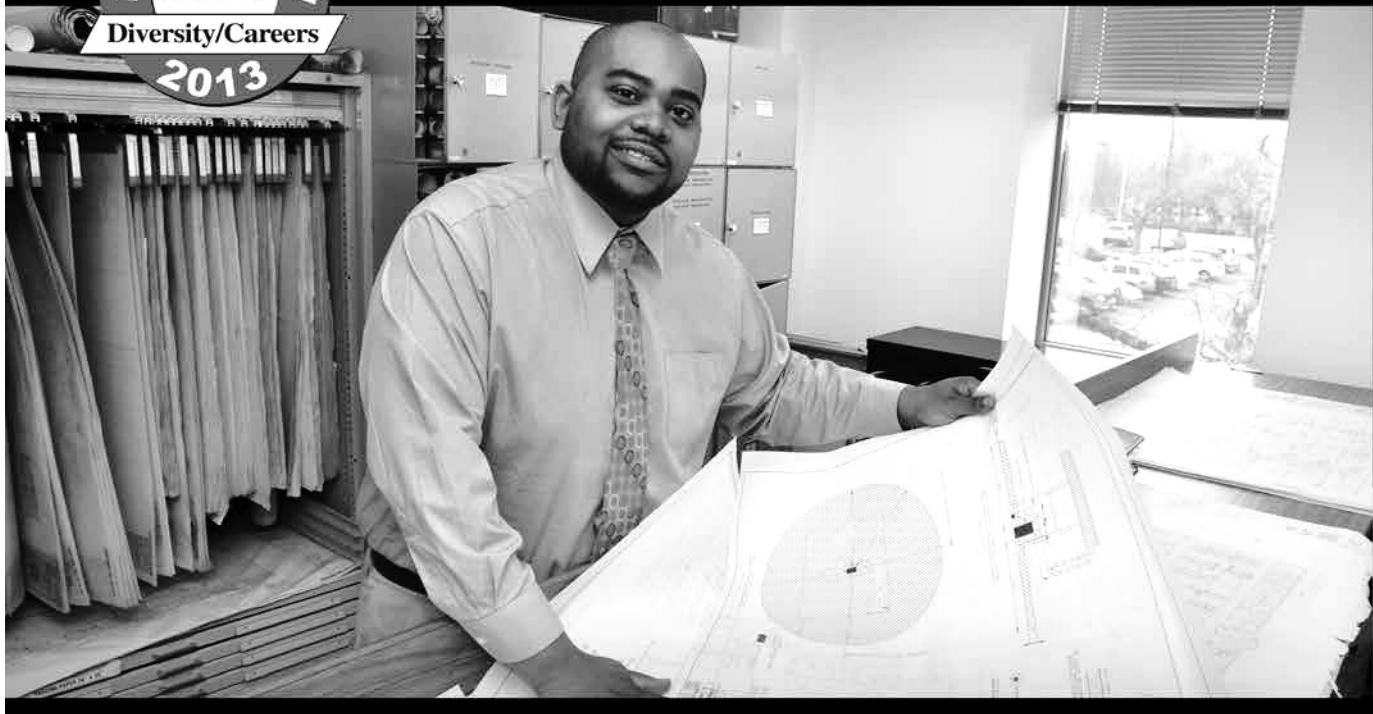
a computer prioritization program, observations from the field and good old-fashioned common sense born from the personal philosophy on her wall, she assists in identifying what natural gas mains throughout Philadelphia, Pa., need replacing. The company is responsible for replacing 25 miles of cast iron gas mains each year. Her efforts help reduce maintenance expenses, ensuring the safety and reliability of the PGW system and saving customers’ money.

After joining PGW in March 2008, Barker found success early on as the author of several technical documents and operating procedures for field personnel, capturing the institutional knowledge of more experienced colleagues as they began to retire. However, she says she is most proud of an interactive Web map she developed to enable the public to get a real-time glimpse of where field crews are working around the city.

Yet, professional success is often tempered by challenges.

“When you first start your career, it’s very easy to just have fun,” says the 27-year-old Philly na-

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# LEVEL UP

## UCLA Gets Creative with the NSBE Retention Program

**O**n the Left Coast last summer, NSBE's University of California, Los Angeles Chapter heard the directive to focus on *Academic Excellence*, from the National Executive Board. But it was local motivations that really got them to buy into the NSBE Retention Program.

"A lot of our upperclassmen were graduating, and we were losing a lot of our members. So we really wanted to make sure that we kept the members we did have, as we tried to recruit more," explains NSBE UCLA Chapter President Ashly Ainley, a mechanical engineering student. "And talking to our Industry Advisory Board, we learned that their main priority was academics, and we wanted to make sure we were aligning our chapter with that."

"We want our members to get jobs at the end of the day," she adds. "So in order to do that, we felt that academics was something we really needed to focus on."

NSBE's Retention Program was launched nationally in 2009 to improve the four- and five-year graduation rates of black college students in science, technology, engineering and math. Originally for freshmen, the program soon developed components for sophomores and juniors.

The Retention Program takes NSBE back to its roots. The National Society of Black Engineers was founded in 1975 by six African-American engineering students at Purdue University. These students wanted to stop the huge leakage of their peers from engineering programs at Purdue and other colleges and universities across the nation.

## *In NSBE UCLA's version of the game, the Pokémon characters are replaced by good study habits, and the ultimate goals are to get top grades and stay in engineering.*

### NOVEL APPROACH

Last summer, the UCLA chapter came up with a novel method of addressing the same problem. They call it "NSBEmon," a name penned by chapter member Asya Hollins.

"It's like Pokémon," says Ainley.

In that famous, old-school video game, players, called "trainers," collect fictional characters that have certain powers, and they train them to compete against teams owned by other trainers. The ultimate goals are to collect all of the characters and become the strongest trainer by defeating the other teams.

In NSBE UCLA's version of the game, the Pokémon characters are replaced by good study habits, and the ultimate goals are to get top grades and stay in engineering.

"Over the quarter, we track certain study habits, and our members can log the study habits (and results) they've achieved on any day," Ainley says. The activities tracked include visiting professors during office hours, going to class every day, doing homework before it's due, reading assigned books for classes, improving on test scores, etc. "There's a point system based on what you've done in order to move up a level. So at the end of the quarter, the team that has leveled up the most will be the winner."

The results of the chapter's first quarter of NSBEmon are in, and are encouraging. The chapter's average GPA rose from 3.00 to 3.164. Ainley also reports increased morale among chapter members and an increased determination to identify and remove obstacles to academic success.

### LEADERS OPTIMISTIC

Stacyann P. Walker was NSBE national chair for 2009–10. She worked the other members of NSBE's National Executive Board and with NSBE Executive Director Carl B. Mack to get the Retention Program started.

"I am extremely excited and optimistic about the progress NSBE has made with the Retention Program," she says. "When my board and I initiated this program, our goal was to strategically launch a sustainable retention program that could help fulfill the mission that we have so long been pursuing but in which we have not been seeing the gains we would have liked. The key to making this program successful was engagement and follow through. I am confident if we continue on our current road, we will soon see that we are truly increasing the number of black engineers."

Mack concurs.

"The Retention Program is vital to NSBE and is clearly moving us in the right direction," he says. "When only 31.2 percent of African-American engineering students are making it to graduation in six years (according to the National Action Council for Minorities in Engineering), it's clear that we need a program like this to move the needle toward 100. I've seen at places like Clarkson University the kind of tremendous results our Retention Program can bring. The work of the NSBE

chapter there made a campus-wide impact."

This year's National Executive Board is working to improve and expand the program. National Chair Calvin A. Young III has made this a main goal of his administration.

"I think it's progressing," Young says. "Many chapters are excited about retention, and (they) run the program. However, there is a lot of variation, and measuring success is still in its infant stages. Our team has done a lot of research this year to build in these areas, and we look forward to rolling out enhancements in the next term."

### AGENDA ITEM 1

The enhancements include development of a three-part structure for the retention effort, including summer bridge programs; skills workshops done in collaboration with the organization Guaranteed 4.0; and mentorship of freshmen and sophomores by juniors and seniors.

"Short term, we want to see the NSBE Retention program active in every NSBE chapter in fall 2013," Young says. "Long term, we want to measure the program's penetration rate, which is the number of black engineering students whose academics are influenced positively by this program."

Ainley says the UCLA chapter has worked closely with the university's Center for Excellence in Engineering and Diversity (CEED) in striving for academic success. And she says that, "Our main priority this year is our retention program and getting our GPAs up."

Those words should be music to Young's ears. He wants NSBE's retention effort to be at the top of every chapter's agenda.

"Make *Academic Excellence* the most important thing the chapter achieves," he says. "Cut out all the activities that hold our members back from doing well academically, and push to make NSBE at your university a complement to the academic experience. Before we can succeed professionally or impact the community, we must excel academically." ■

# SEEK 2013 UPDATE!



*...I felt last year was our tipping point for the program's renown. Now, we want to move full speed ahead to offer SEEK to as many students as we can across the country.*

*— SEEK Director Franklin O. Moore*



**N**SBE's Summer Engineering Experience for Kids Academy (SEEK) is rolling quickly toward its seventh year, and, from all appearances, the program is gaining momentum as it goes. SEEK is a precollege program founded in 2007 by NSBE Executive Director Carl B. Mack and Franklin O. Moore, now the SEEK director. It engages underrepresented minority students in hands-on, team-based engineering design projects to increase their knowledge and raise their comfort level with science, technology, engineering and math. SEEK's ultimate goal is to fill the pipeline to engineering careers with greater numbers of these students, from kindergarten through 12th grade.

SEEK was founded with a \$1-million grant from Battelle Foundation and a curriculum provided by NSBE's longtime partner in the program, SAE International (the Society of Automotive Engineers).

Reporting from NSBE's World Headquarters in Alexandria, Moore tells *NSBE Bridge* that he's, well, ecstatic about how things are going.

"I am ecstatic about the progress," he says. "I've attended every SEEK camp since 2007, and I felt last year was the tipping point for the program's renown. Now, we want to move full speed ahead to offer SEEK to as many students as we can across the country."

The progress Moore refers to includes five tentative new locations — Atlanta, Ga., Brooklyn, N.Y., Denver, Colo., Jackson, Miss., and Philadelphia, Pa; unprecedented funding from organizations such as Chevron Corporation, The Dow Chemical Company, GE, Northrop Grumman Corporation and the Office of Naval Research; an expanded curriculum for the students; and a new, more efficient selection process for the "SEEK mentors," NSBE collegiate members from across the country who teach the pre-college students and guide them through the engineering activities.

This year, all participants in SEEK will have the opportunity to "go green" by customizing miniature solar cars, courtesy of San Diego Gas & Electric Company (SDG&E), explains SEEK Coordinator Quiana Piggee. In 2012, SDG&E's president and chief operating officer asked two NSBE members who work at the company to provide a solar car curriculum for the San Diego SEEK Academy.

"The kids really enjoyed it in San Diego (last year), and that's why NSBE has decided to use it nationwide," in addition to the SAE design projects, Piggee says.

SEEK Manager Sharifa Vinson reports that NSBE is well ahead of last year's schedule in recruiting mentors for the program. All SEEK mentors received performance reviews for the first time in 2012, and NSBE has asked many of them to return for 2013. Also, NSBE's SEEK Department began soliciting new mentors early, by reaching out to NSBE chapters, as well as colleges and universities, that are in or near the SEEK host cities. The recruitment will continue at the 2013 Annual Convention in Indianapolis, Ind., with a SEEK try-out and information session, and on-site interviews of prospective mentors.

NSBE is looking for "a set of core competencies" in the mentors it hires, Vinson says, "things like a strong work ethic, and the ability to be a team player, create a fun and enjoyable environment for the kids, and give and receive effective criticism and discipline. People with those types of characteristics make the best SEEK mentors, from what we have found."

In addition to the new locations mentioned above, SEEK Academies are being planned this year for Detroit, Mich.; Houston, Texas; New Orleans, La.; Oakland and San Diego, Calif.; and Washington, D.C. For more information about SEEK 2013, or to register, visit [www.nsbe.org](http://www.nsbe.org). ■

# Back to Indiana

## Remembrances from NSBE's Founders

By Kevin M. Briscoe

**A**s thousands of engineering students and professionals descend upon Indianapolis this year for the 39th National Society of Black Engineers Annual Convention, some may know they are but a stone's throw from the birthplace of NSBE, Purdue University.

"NSBE was designed using the American Society of Mechanical Engineers as a model, so we expected there would one day be chapters everywhere," says Anthony "Tony" Harris, NSBE founder and current National Advisory Board chair. "(But) we certainly didn't anticipate NSBE as it exists today."

Harris is one of the "Chicago Six," the group of African-American engineering students at Purdue who breathed life into NSBE. The others were Edward A. Coleman, Brian Harris, Stanley L. Kirtley, John W. Logan and George A. Smith. The students were assisted by a Purdue faculty member, Arthur J. Bond, Ph.D. Kirtley, Logan and Dr. Bond are deceased.

"Our time horizon was closer to a five-year outlook," says Tony Harris, now president and chief executive officer of CSECO, a manufacturer of detection equipment for contraband and explosives. "We never spoke about international impact at the time, nor did we envision moving our sphere of influence down to the third-grade level. Our focus was mainly on getting more students to enroll in engineering, getting more students to graduate in engineering and getting more black engineering faculty."

"Funny though, we did joke about who would play us in the NSBE movie."

From this core group of young men, NSBE has grown into a 28,000-plus-strong organization with international reach. And, in the nearly four decades since NSBE's founding, its mission remains of paramount importance.

"Diversity in engineering is even more important today (because) the marketplace is extremely competitive and the economic climate affords (fewer) opportunities," says Brian Harris, now a general partner with Progressive Development and Associates, a construction management firm. "Training in engineering provides all the necessary skills to function in any business setting, resulting in more entrepreneurs and more start-up companies."



Five of NSBE's founding "Chicago Six": (left to right) Edward A. Coleman, Anthony ("Tony") Harris, Brian Harris, Stanley L. Kirtley and George A. Smith. Not pictured: John W. Logan

Smith says he believes NSBE is a concept "built to last."

"In my not-so-humble opinion, there are two reasons why NSBE has lasted," he says. "One, there is a need, and two, the membership is willing to work to keep it alive. That says to me that NSBE continues to serve its purpose, and the members feel that they get even more out of it than they put in."

And so, for the first time

*For the first time since 2001, Indianapolis is the site of the NSBE Annual Convention: a fitting location to remember the Society's roots.*

since 2001, Indianapolis is the site of the NSBE Annual Convention: a fitting location to remember the Society's roots in Indiana.

"I think it is most fitting that the Annual Convention is returning to Indiana, which will be the perfect setting for a tribute to our late mentor, Dr. Arthur Bond," says Brian Harris.

Long considered as vital to the formation of NSBE as the Chicago Six, Dr. Bond, who died this past December, was known as a tireless advocate for quality engineering education for minority students. In addition to his efforts to launch NSBE, Dr. Bond held key administrative posts at Tuskegee University and Alabama A&M University.

At Dr. Bond's first workplace, Purdue, at least one administrator is looking forward to NSBE's "family reunion" in Indy. NSBE National Advisor Virginia Booth-Gleghorn attended Purdue with the Chicago Six and was among NSBE's first cohort of members. She became the Society's first female national chair in 1978 and now directs Purdue's Minority Engineering Program.

Booth-Gleghorn says NSBE has much work left to do.

"We have yet to achieve equity. Statistically, we are still vastly underrepresented (in engineering), but I would hate to see the statistics if NSBE did not exist," she says.

In its next 40 years, she envisions NSBE "overcoming current challenges and accomplishing the mission.... You will see NSBE businesses, schools, recreational parks and presidents!" ■

**Kevin M. Briscoe** is a writer based in Baltimore, Md., and a former editor of NSBE Magazine.

# NSBE Calendar of Events for MARCH – JUNE 2013

Event	Date	Location
<b>MARCH 2013</b>		
<b>Convention</b> NSBE 39th Annual Convention	27th–31st	Indiana Convention Center, Indianapolis, Ind.
<b>APRIL 2013</b>		
<b>National</b> Post-Convention Break, World Headquarters Closed National Executive Board Transition Meeting, 1st Session	1st–5th 20th–21st	Virtual Meeting
<b>MAY 2013</b>		
<b>National</b> National Executive Board Transition Meeting, 2nd Session AE Summit	2nd–5th 23rd–26th	Alexandria, Va. San Juan, P.R.
<b>JUNE 2013</b>		
<b>National</b> Administrative Zone Meeting National Leadership Conference	3rd 4th–9th	U.S. Coast Guard Academy, New London, Ct. U.S. Coast Guard Academy, New London, Ct.



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- Hispanic Business magazine – Named to the Diversity Elite 2011.
- Selected as the Minority Corporate Counsel Association Employer of Choice Award winner for 2011 for the Western Region.
- Profiles in Diversity Journal – Announced PG&E as a 2011 Leading Company for People with Disabilities.
- LATINA Style Magazine – Named to the Top 50 Companies for Latinas to work for in America in 2011.

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# Welcome from the National Chair

Family and Friends,

Welcome to Indianapolis and the 39th Annual Convention of the National Society of Black Engineers! When NSBE's founders established our Society a short drive from here on the campus of Purdue University, in 1975, they did so with the goal of establishing a culture of Academic Excellence. Retention of African-American students in engineering was disturbingly low, and the founders — six Purdue engineering students and their faculty mentor — realized that a big part of the solution to that problem was a group effort, a movement, to set high academic standards in their peer group and to have black students show each other how best to achieve those standards.

Today, Academic Excellence remains the foundation of what NSBE does. Academic Excellence and the knowledge and discipline we gain from striving for it, legitimize NSBE's claim to leadership positions in our profession and in our community. Although the problem of retaining black students in engineering has been intractable, especially in the U.S., there are many engineers working today — easily thousands — who credit NSBE with helping them overcome their academic obstacles to get their engineering degrees. I am one of them.

During this convention, we will continue NSBE's mission and maintain this year's focus on *Engineering Exposure, Academic Excellence and Professional Branding*. In the convention's Pre-College Initiative Conference, we will expose middle school and high school students to the joys and wonders of science, technology, engineering and mathematics. And we will stoke their desire to get good grades in the right subjects so they can one day soon become engineers. We will work toward, spotlight and celebrate the importance of Academic Excellence, with events such as the Graduate School Conference, the technical and scientific competitions, and workshops such as "Guaranteed 4.0." And we will enhance NSBE's brand with networking and professional development events that show off our talent and our academic and professional credentials, and show the value of NSBE Alumni membership.

NSBE's Annual Convention is our largest event and our biggest opportunity — in one place at one time — to demonstrate and help bring about the kind of cultural change our founders envisioned. Please enjoy your time in Indianapolis, and make the most of the opportunity!

**Calvin A. Young III**  
NSBE National Chair



**Calvin A. Young III**





# Welcome from the CPC Chair



**Whitney B. Gaskins**

NSBE Family and Friends,

Welcome to Indianapolis and NSBE's 39th Annual Convention! On behalf of the Convention Planning Committee (CPC), our host chapters and staff, I thank you for your attendance at this year's homecoming. The theme of this year's conference is "NSBE2013: Honoring Our Past, Driving Our Community Forward." From its dynamic speakers to the 70-plus dynamic workshop sessions, the convention will offer you the tools you need to live up to NSBE's mission and impact the communities we serve. Your attendance at this event reflects your commitment to our organization and to the development of the next generation of engineering leaders.

This year's convention offers numerous opportunities for attendees to explore their engineering interests and show their engineering talents. There are many competitions designed to hone your engineering skill set. At the Technical Research Exhibition, members will display and discuss their research topics or projects they have worked diligently at their colleges. Our Pre-College Initiative (PCI) Conference offers our NSBE Jr. members the opportunity to put their skills to the test against some of the best and brightest students in the country. When the day is done, you can enjoy the activities we've planned for you to unwind, network and relax.

Of course, the convention is also the time to handle NSBE business. To this end, the National Forum will be held on Thursday, along with the Senator's Workshop, national/regional voting, Candidates' Q&A and the daily General Sessions and Regional Meetings.

As we return to Indiana, the state of NSBE's birth, know that we have something for everyone. Whether this is your first time attending the Annual Convention, or you're considered a regular, you hold the key to this event's success. "Driving Our Community Forward" will require the collective talents of us all.

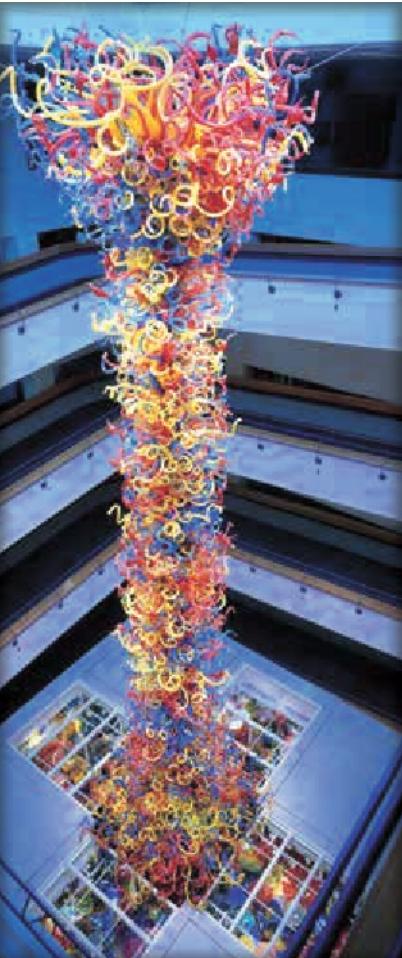
Be sure to visit the NSBE Career Fair and the inaugural NSBE Showcase, where you can jumpstart your career, learn about new technologies or find the perfect gift to take home. Whatever you're seeking for your academic or professional career, our partners can surely provide it for you.

Welcome again to Indianapolis. I hope you enjoy the show.

With NSBE Luv,

**Whitney B. Gaskins**

NSBE 2013 Annual Convention Planning Committee Chair





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– Ana Flenoy, Drilling Engineer

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# Welcome from the Mayor



## Welcome!

**O**n behalf of the City of Indianapolis, it is my pleasure to welcome you to the *39th Annual Convention of the National Society of Black Engineers (NSBE)*. Your theme, "Honoring Our Past, Driving Our Community Forward," reflects the goal of directing our youth toward academic excellence in the sciences.

The commitment of six Purdue University students to increase the number of academic and socially responsible black engineers has succeeded with nearly NSBE 30,000 members. Your organization's emphasis on science, technology, engineering and mathematics (STEM) is vital in the effort to influence our students to become leaders and innovators.

NSBE's mission "to increase the number of culturally responsible black engineers who excel academically, succeed professionally and positively impact the community" is clearly seen in the convention agenda with workshops, lectures and award ceremonies. The public will be able to enjoy the free Public Meeting on STEM and the NSBE 5K run.

While you are here, I hope you have an opportunity to enjoy some of the many top attractions Indianapolis has to offer. Places of interest include: the Indianapolis Zoo and White River Gardens, the Madame Walker Theatre, the Children's Museum of Indianapolis, the Eiteljorg Museum of American Indians and Western Art, Circle Centre Mall, the NCAA Hall of Champions and the Indianapolis Museum of Art. Our downtown is highlighted by remarkable convenience, with dozens of restaurants, cultural attractions, nightlife and eclectic cultural districts within walking distances of your hotels.

I wish you all the best during your stay in Indianapolis and hope you will visit again soon.

Best regards,

**Gregory A. Ballard**  
Mayor  
City of Indianapolis





# Thinking Ahead

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To learn more, visit [utcjobs.com/NSBE2013](http://utcjobs.com/NSBE2013)



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# Welcome from the Congressman



**Greetings:**

**W**elcome to the National Society of Black Engineers' 39th Annual Convention and to the great City of Indianapolis! It is fitting this year's conference held in NSBE's founding state is themed *Honoring Our Past, Driving Our Community Forward*.

Since its inception at Purdue University, NSBE has advocated for African-American engineers on the international stage. The more than 29,000 members worldwide are a testament to the strides NSBE has made in the past 39 years in ensuring the success of engineers, both in academia and in the workplace. Regrettably, work remains to be done. Students from historically disadvantaged background, like many African-American and Hispanic students, both female and male, are less likely to have access to advanced courses in math and science in high school. This negatively affects both their interest in, and ability to successfully complete, science, technology, engineering and mathematics (STEM) majors in college. It is our collective charge as a nation to increase the number of underrepresented minorities in STEM fields by doing more to get these students interested in STEM early and keeping them engaged. I am grateful NSBE is leading our efforts.

Diversifying the STEM talent pipeline is essential to our increasingly diverse population. This is why I have supported expanded access to teacher professional development initiatives in STEM fields. I have also repeatedly advocated for increased funding for technical education programs focusing on STEM through the Carl D. Perkins Career and Technical Education initiative.

Science, technology, engineering and mathematics, and all the incredible associated discoveries and innovations, play a critical role in every facet of our daily lives and will be at the heart of America's future economic success. In order for our young professionals to be nationally and internationally competitive, we must ensure they are well-versed in STEM education. As career opportunities in STEM fields grow, it is crucial that organizations like NSBE continue to emphasize the importance of STEM education and encourage student participation in these programs.

I hope you take advantage of all the opportunities being offered this week, and I wish each and every one of you a wonderful stay in Indianapolis. Enjoy the conference!

Sincerely,

**André Carson**  
Member of Congress

#NSBE2013: Honoring Our Past

**DRIVING OUR COMMUNITY FORWARD**

**39th Annual Convention**

March 27 – 31, 2013

Indiana Convention Center



## NSBE's 2013 Annual Convention Planning Committee



PHOTO BY DON DISTEL PHOTOGRAPHY

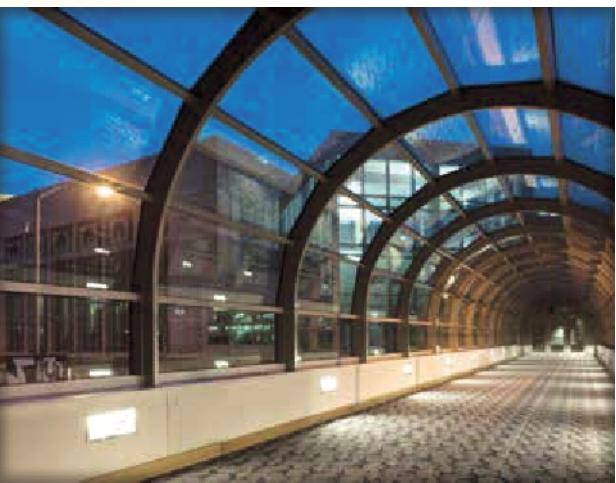
Meet the young people working behind the scenes of the 39th Annual Convention

(left to right) **Front Row:** Onté M. McClendon, Vice Chair; Shaina Steward, Executive Assistant; Whitney B. Gaskins, Chair; Kenitra Battle, Treasurer; Sabre M. Evans, Facilities Manager. **Middle Row:** Brittany L. Hogan, Catering Manager; Devon Leary, NSBE Fit Subcommittee Chair; Ti'Air Riggins, NSBE Showcase Subcommittee Chair; Lauren Thompson, NSBE Cares/T.O.R.C.H. Chair; Nosa Egharevba, Technical Professionals Conference Chair. **Back Row:** Keith Lackey, Security; Cortez Martin, Operations Advisor; Delano M. White, NSBE Showcase Coordinator; Marlon Patton, Entertainment Coordinator; SherAaron Hurt, Pre-College Initiative Conference Coordinator

**Not Pictured:** Karmen Martin, Data Manager; Tyler Henderson, Hospitality Manager; Stacyann P. Walker, Speakers and Workshops Coordinator; Michele Lezama, Graduate School Conference Coordinator; Rana Carter, Audiovisual Coordinator; Damaune Journey, Admininistrative Advisor; Tony Diaz, Programs Advisor; Virginia Booth-Gleghorn, National Advisory Board Advisor; Holli Harrington, Publications/Public Relations Advisor



# Get Ready! Preparing for the Convention



## ELECTIONS 2013

One of the main purposes of the Annual Convention is to conduct the business of the National Society of Black Engineers. As part of the event's "Honoring Our Past Challenge," chapters are encouraged to participate in the National and Regional Business Meetings, General Sessions, and forums. These meetings are essential to understanding the state of the organization and how the Society is performing. For

the "Driving Our Community Forward Challenge," collegiate and Alumni chapters should be familiar with the NSBE Constitution and By-Laws, review the candidates for NSBE offices during forums and Q&A sessions, and vote during scheduled voting times. Each chapter should establish two senators to vote on its behalf during the convention and should hold those senators accountable for following through with that task.

## HOW TO PACK

When preparing for the convention, pack lightly but efficiently. Some of you will be traveling across the country, so making a heavy load for yourself would not be wise. Annual Convention is a business event, so it is best to bring business professional attire for Thursday, Friday and Saturday. Upon arriving in Indianapolis on Wednesday, you can wear the #NSBE2013 Convention T-shirt and casual pants. If you will be participating in the NSBE 5K and NSBE Fit activities, you should bring exercise clothing and gym shoes for those events.

## WHAT TO BRING

- Clothes/Shoes (dress and casual)
- Weather-appropriate Coat or Jacket
- Photo Identification (for registration)
- Money (for food, vendors, sightseeing, tour shops, etc.)
- Toiletries (medicine, toothbrush, deodorant, etc.)

- Umbrella
- Cell Phone, Camera, Chargers
- Resumes (for Career/College Fairs)
- Competition Materials
- Homework
- Laptop (optional)
- Teachers' Treasures School Supply Donation (optional)

## WHAT NOT TO BRING

- Video Games
- Alcohol or Illegal Substances
- Inappropriate Attire

Be sure to check the Convention website continually for updates, at <http://convention.nsbe.org>.

## HOW TO DRESS

*Opening Session* – Members are encouraged to wear the official convention T-shirt to Opening Session on Wednesday, March 27. Each region has a specific color, as follows: Region I, red; Region II, orange; Region III, green; Region IV, black; Region V, blue; and Region VI, purple. Convention tees can be purchased online at [www.2013Tees.com](http://www.2013Tees.com). They are \$6.00 for sizes S–XL and \$8.25 for sizes 2X or larger.

*Business Professional* – For young men: slacks, dress pants, button-up shirts, ties, suit jackets, dress shoes, etc. For young women: business suits, either skirted suits (knee-length, loose-fitting) or tailored pantsuits, shoes with closed toe and closed heel, and hosiery. Bring clothes you would wear to a job interview.

*Golden Torch Awards* – The Golden Torch Awards is a black-tie affair. This means women are allowed to wear formal/cocktail dresses (below the knee, loose-fitting) and full suits. Gentlemen should wear a suit and tie. Cufflinks are also appropriate for gentlemen. Dress shoes should be worn. No jeans or casual attire is allowed.

We cannot overstress how important appearance will be, not only to you but to the National Society of Black Engineers as a whole.

#NSBE2013: Honoring Our Past  
**DRIVING OUR COMMUNITY FORWARD**

**39th Annual Convention**

March 27 – 31, 2013  
Indiana Convention Center



**CODE OF CONDUCT**

Keep in mind that you are representing our organization the entire time you are at the convention. This includes the time you spend inside the convention center; your time in your hotel and during your visits to stores, restaurants, tour sites or other establishments; as well as the time you spend traveling to and from those locations. We expect convention attendees to behave in a respectable manner at all times and to follow the Code of Conduct.

**ON-SITE CHECK-IN**

We strongly encourage all registrants to bring a copy of their IMPak payment confirmation with them to on-site check-in. At the on-site check-in desk, you will receive: your badge, which must be worn at all times during the convention; your badge ribbons (if applicable) and your registration gift (if applicable).

For those who missed the pre-registration deadlines, please note that on-site registration payments in IMPak must be made with a credit card.

**THEMES OF THE DAY**

- Wednesday – STEM Public Policy
- Thursday – Honoring Our Past
- Friday – Blacks in Technology
- Saturday – Driving Our Community Forward



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# Convention Agenda



**Sabre M. Evans, Facilities Manager, NSBE 2013 Annual Convention Planning Committee**

**Y**our NSBE 2013 Convention Planning Committee has worked diligently with NSBE's National Executive Board to finalize the convention agenda. The agenda can be found online at <http://convention.nsbe.org> or by using the Guidebook mobile website or smartphone app.

We encourage conference attendees to download the Guidebook app to get up-to-date agenda items. The mobile web version can be downloaded from [www.guidebook.com](http://www.guidebook.com). Guidebook can also be downloaded from the app store for your mobile device (Apple's App Store, Google Play, etc.). Once you have the Guidebook app, go to "Download Guides," and search for "NSBE's 39th Annual Convention."

#### FEATURES:

- Agenda/Schedule, Key Events
- Ability to Personalize your Schedule
- Hotel, Parking, Restaurant Maps
- List of Exhibitors and Vendors
- NSBE Showcase Schedule

- Speaker Bios and Sessions
- Workshops and Descriptions
- Ability to Provide Conference Feedback
- Ticket Pre-Registrations through Eventbrite

*Plan your schedule early using the Guidebook app, today!*

## NSBE SHOWCASE



**Wednesday-Saturday**  
**Hall A**

# 'NSBE Cares' Community Involvement

**D**uring the 39th Annual Convention, NSBE wants to make a positive impact on Indianapolis. We want to show Indianapolis that "NSBE Cares." We plan to do this in several ways: by working with a local charity called Teachers' Treasures, by making blankets for the Riley Hospital for Children and by providing *Engineering Exposure* to students in Indianapolis Public Schools through the NSBE Innovators Competition.

## TEACHERS' TREASURES

Teachers' Treasures provides free school supplies and other useful items to teachers whose schools have a majority of students who receive free or reduced-price lunch. You can be a part of this effort either by donating school supplies on behalf of your NSBE region or by volunteering your time to sort the collected supplies. Show which Region Cares the most by donating pencils, pens, filler paper, notebooks, markers, binders and file folders. The drop-off location for supplies will be the NSBE Showcase, Wednesday, March 27, through Friday, March 29, 2013.



## RILEY HOSPITAL FOR CHILDREN

Riley Hospital for Children is one of the top hospitals in the country for family-centered care. Riley strives to make its young patients' stays as comfortable as possible. To help the hospital in this effort, NSBE needs you to make and donate blankets for Riley's patients. Help us make an impact during the 39th Annual Convention by preregistering for this event on Eventbrite. The event will take place on Thursday, March 28, 2013, 11:45 a.m.–2:45 p.m. in the Indiana Convention Center.

## NSBE INNOVATORS

The objective of this challenge is for participants to create an innovative way to perform a simple task. The assigned task is to sharpen a pencil in 20 steps. Middle school students from Indianapolis Public Schools have been invited to participate in this activity to show off their engineering skills and prove they are NSBE innovators. Come to the NSBE Showcase on Wednesday, March 27, 2013, and cheer on the teams during the 39th Annual Convention. Winners of the competition will receive an upgraded technology system for their classroom.



Lauren Thompson, NSBE Cares/  
Technical OutReach Community Help  
(T.O.R.C.H.) Chair, NSBE 2013 Annual  
Convention Planning Committee



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# Featured Events

Events are subject to change.



## PUBLIC MEETING ON STEM

**Wednesday, March 27; 4:30 p.m.–6:00 p.m.**

The Public Meeting on STEM is a new event that will bring NSBE members together with STEM education policymakers. Representatives from the U.S. Department of Education and U.S. Department of Energy will address ways NSBE can work more effectively with government toward a common goal. The meeting will be hosted by Mike Muse, an industrial engineer and former NSBE Region IV chair. Muse cofounded the record label Muse Recordings and was appointed a member of the National Finance Committee and National Advisory Board for the Democratic National Committee.



Gitlin



Martin

## OPENING SESSION

**Wednesday, March 27; 7:00 p.m.–9:00 p.m.**

*Sponsored by United Technologies Corporation*

Opening Session is the kickoff event of the Annual Convention. It showcases the convention theme, includes speakers and highlights NSBE's national and convention leadership. Award-winning journalist Roland S. Martin is the featured motivational speaker for this event. Martin is host and managing editor of *Washington Watch with Roland Martin*, which airs on the TV One Cable Network. He also appears on CNN and the *Tom Joyner Morning Show*. Keynote speaker for Opening Session is David Gitlin, senior vice president of Aircraft Systems for UTC Aerospace Systems. Members are encouraged to show NSBE Pride by wearing the #NSBE2013 T-shirt during this session.

## PRE-COLLEGE INITIATIVE KICKOFF

**Thursday, March 28; 8:00 a.m.–9:30 a.m.**

The Pre-College Initiative (PCI) Conference will start with a breakfast featuring Aprille J. Ericsson, Ph.D. as the keynote speaker. Dr. Ericsson attended the Massachusetts Institute of Technology, where she received a B.S. in aeronautical and astronautical engineering. She received her Master of Engineering and her Ph.D. in mechanical engineering in aerospace from Howard University. Dr. Ericsson spent most of her engineering career at NASA's Goddard Space Flight Center.



## GRADUATE SCHOOL CONFERENCE KICKOFF

**Thursday, March 28; 9:30 a.m.–11:00 a.m.**

The theme of the GSC Kickoff is "How to Make a Million Dollars in Four Semesters." Howard G. Adams, Ph.D. is the featured speaker. Dr. Adams is founder and president of H.G. Adams & Associates, Inc., a Norfolk, Va.-based company that provides consulting and training in mentoring, student development and leadership.



## DISTINGUISHED LECTURE SERIES, FEATURING CARL B. MACK AND THE NATIONAL CHAIR'S COUNCIL

**Thursday, March 28; 10:00 a.m.–11:30 a.m.**

NSBE's own Executive Director Carl B. Mack will give a dynamic presentation on the historical advancements that helped build our community. Past NSBE national chairs will also discuss the events that helped shape

and mold our organization. Our leaders will examine the U.S. civil rights movement, the battle to defend affirmative action, the evolution of the "digital divide" and other external trends that have affected NSBE in its 40 years of existence.



## ALUMNI EXTENSION KICKOFF LUNCHEON AND FORUM

**Thursday, March 28; 11:30 a.m.–1:00 p.m.**

This event is a welcome to the Technical Professionals Conference and a kickoff of the conference activities. For current or future NSBE Alumni members, the AE Forum is the event to attend to discuss the future of the Alumni Extension and the needs of technical professionals. The event is hosted by Darnell Fisher, NSBE national Alumni Extension chair.



## THURSDAY GENERAL SESSION

**Thursday, March 28; 5:30 p.m.–7:30 p.m.**

*Sponsored by Chevron Corporation*

Ralph Cleveland, global head of Customer Operations and Business Transformation for AIG Property and Casualty Insurance will keynote the session. Cleveland has responsibility for all of AIG Property and Casualty Insurance's Operations globally for the Consumer and Commercial businesses. Before beginning his AIG career, he spent 30 years in the energy sector in various corporate and industry roles.


**DISTINGUISHED LECTURE SERIES, FEATURING  
THE APPRENTICE WINNER RANDAL D. PINKETT**
**Friday, March 29; 10:00 a.m.–11:30 a.m.**


Join us for an intimate discussion with Randal D. Pinkett, Ph.D.: founder, chairman and CEO of BCT Partners and author of the books "Black Faces in White Places," "No-Money Down CEO" and "Campus CEO." Dr. Pinkett, a former member of NSBE's National Executive Board, is coming home to NSBE to discuss how to succeed in the classroom and in the corporate world, and to share his journey to becoming one of the most recognized figures in our community.

**GRADUATING SENIORS RECEPTION**
**Friday, March 29; 11:00 a.m.–12:30 p.m.**
*Sponsored by Accenture*

This signature event of the NSBE Alumni Extension has been refreshed to provide even more interaction between the AE's newest members, our graduating seniors, and current NSBE professionals and participating corporate and government representatives.

**FRIDAY GENERAL SESSION**
**Friday, March 29; 5:30 p.m.–7:30 p.m.**
*Sponsored by Walmart*


Ryan C. Mack, author, community activist, and contributor to CNN, BET and *The Huffington Post*, will headline the General Session on Friday. The session will tie into the day's theme of "Blacks in Technology" and will focus on how black engineers, technology entrepreneurs and academia can maximize their financial worth to change and develop our community.

**SATURDAY GENERAL SESSION**
**Saturday, March 30; 10:00 a.m.–11:30 a.m.**
*Sponsored by Johnson Controls, Inc.*


Speaking for the event sponsor at the convention's final General Session will be John Eberhardt III, a general manager for Johnson Controls, Inc. in Indianapolis, Ind. Eberhardt has more than 22 years' experience in the commercial construction industry, having served in various technical, project management and sales leadership roles. He is active in the community, serving on the Indiana University-Purdue University Indiana (IUPUI) Industrial Advisory Board for the university's Department of

Mechanical Engineering. He has an M.B.A. in project management and a Bachelor of Science degree in electrical engineering technology.

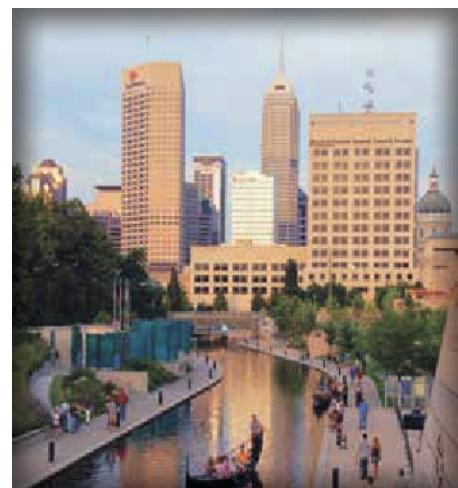
**SATURDAY GENERAL SESSION**
**Saturday, March 30; 10:00 a.m.–11:30 a.m.**
*Sponsored by Johnson Controls, Inc.*

NSBE requests "all hands on deck" for the State of the Society presentation by NSBE National Chair Calvin A. Young III! Young's address will include a review of the current program year, plans for the coming years, and the results of the administration's focus on *Academic Excellence*, retention of black engineering students and key initiatives to ensure chapter leaders are successful. Young is a master's degree student in manufacturing engineering at Polytechnic Institute of New York University. He is also an associate in the UTC Operations Leadership Program and has been a NSBE leader for the past seven years.


**NSBE GOLDEN TORCH AWARDS**
**Saturday, March 30; 7:00 p.m.–10:00 p.m.**
*Sponsored by the United States Navy*

The 16th Annual NSBE Golden Torch Awards will be hosted by Nicole Lyons, the first African-American woman to race in the coveted classes of National Hot Rod Association Top Sportsman and Comp Eliminator as well as American Drag Racing League Top Sportsman.

Off the track, she serves as chief executive officer and president of Cole Muscle Cars, an engine building and muscle car restoration company.





# NSBE's Reality Show!

By Shaina Steward, Executive Assistant, NSBE 2013 Annual Convention Planning Committee



Shaina Steward

**T**he *NSBE World: Indianapolis* is a reality series created for NSBE members by the 2013 Annual Convention Planning Committee. My name is Shaina Steward. I have a Bachelor of Science degree in electrical engineering, and I recently earned my master's degree in business administration. As the executive assistant of the committee, I am the leader of the Communications Zone and Marketing. I am also the executive producer of the reality show. I was challenged to come up with a fun way to document the convention planning process, showcase committee members and provide conference information to NSBE's membership. After much brainstorming, the team decided to develop a reality show with a catchy theme song.

The show airs on the convention's Facebook page, on Twitter and on the NSBE TV YouTube Channel. It is videotaped, edited and stars members of the Convention Planning Committee. This is a show for the people, by the people. Watch as the committee puts its engineering problem-solving skills to use and provides a bit of pre-convention entertainment.

CNA is a not-for-profit organization that conducts objective, empirical research and analysis to help decision makers develop sound policies, make better-informed decisions, and manage programs more effectively.

CNA's Institute for Public Research assists an array of federal, state, and local government agencies working in such areas as education, health care and public health, homeland security, and air traffic management.

And through CNA's Center for Naval Analyses, the federally funded research and development center (FFRDC) for the Navy and Marine Corps, we provide research and analysis services to the military to help improve the efficiency and effectiveness of our national defense efforts.

CNA offers positions for Research Analysts and Research Scientists with experience in engineering, mathematics, economics, international relations, national security, public policy, history, psychology and many other scientific and professional fields of study. We look for people with the training and ability to reason soundly and to apply scientific techniques imaginatively—people who can see beyond surface details to the core of a problem and devise logical, practical solutions.

There are also positions available in computer and information technology, business administration, human resources management, accounting, security, and office management. CNA has created a work environment that challenges all staff to excel and rewards excellence with good pay, job satisfaction, and opportunities to advance.



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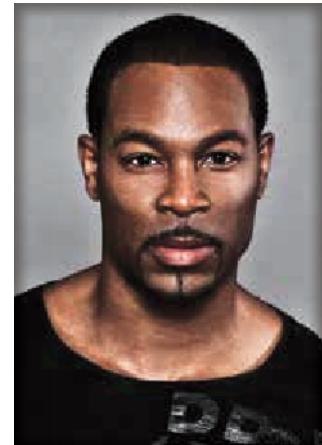


# NSBE Fit Challenge

**A**re you 5K ready??? Statistics show that African Americans are highly susceptible to many diseases, in part because of unhealthy lifestyles. As a result, this year's Convention Planning Committee has introduced the NSBE Fit Challenge. The purpose of the challenge is to encourage health and wellness among NSBE's nearly 28,000 members. The goal is for our members to track and showcase their healthy living activities. During the convention, we will highlight the chapters and members who have led the way and will offer even more tips to keep you on the right track. Follow @NSBEconvention on Twitter to learn about the prizes you can win.

#### NSBE Fit activities include:

- Celebrity Workout and NSBE Fit Luncheon (led by Darrin Henson)
- Zumba Fitness Training (led by Kari L. Jordan)
- NSBE Health and Wellness Fair (part of the NSBE Showcase)
- NSBE 5K (\$5 for Members, \$20 for Non-Members)



Darrin Henson, Celebrity Fit Instructor



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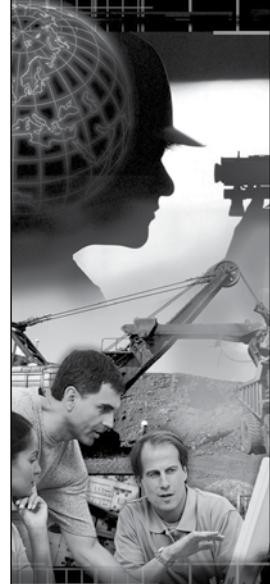
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# NSBE Showcase



**Delano M. White, Showcase Coordinator, NSBE 2013 Annual Convention Planning Committee**

**T**he NSBE Showcase is a new and exciting event created to expose our members and stakeholders to the world of engineering. The showcase will include engaging seminars, product presentations and hands-on displays.

The exhibit hall features seven unique experiences plus a main stage where we will showcase NSBE members. Check the convention agenda for the schedule of main stage presentations.

## **INNOVATIONS CORNER**

Interested in learning about the new technologies that your NSBE members and our convention sponsors are developing? Want to be the first to try out a new app, learn the history and engineering behind classic muscle cars or experience how a "lemon" car is transformed into a high-performance race car? The Innovations Corner is the place for you!

## **TECH CENTER**

### **Hosted by NSBE Regional Junior Executive Boards**

The Tech Center features hands-on activities and programs designed to give participants a glimpse into the world of engineers as they're having fun.

## **TECHNICAL RESEARCH EXHIBITION, PCI SCIENCE FAIR, GSC POSTER SESSION**

Creative, engaging and interactive programs are the primary vehicle through which NSBE fulfills its mission of creating engineers who excel academically, succeed professionally and positively impact the community. A variety of programs in the following core areas will support all demographics impacted by the Society: Academic Excellence, Technical Excellence, Leadership Development, Community Impact, Pre-College Initiative and Chapter Development. At this year's Annual Convention, we will highlight NSBE programs and competitions for all of our members and visitors.

## **COMMEMORATIVE AREA**

Since 1975, NSBE chapters have promoted Academic Excellence and exposed African-Americans to science, technology, engineering and mathematics (STEM). The Commemorative Area will present the history of our NSBE chapters and our collective quest to achieve NSBE's mission.

## **RELAXATION STATION**

After a long day of attending workshops, searching for jobs, and networking, come visit the Relaxation Station to unwind, rejuvenate and fellowship with your fellow engineers. You can check your e-mail, get pampered or read a good book from the Barnes and Noble Bookstore.

## **MARKETPLACE**

Looking for a crisp new NSBE shirt or a gift for that special someone? The Marketplace is once again open for business, featuring apparel, art, souvenirs and much more!!! This year, we have expanded the venue with an author's showcase featuring books by NSBE members along with books about STEM and African-American history and culture. The NSBEpreneur Showcase offers the opportunity to network with African-American-owned technical companies.

## **HEALTH AREA**

African Americans are most affected by many health-related problems. Being culturally responsible also means engaging in activities to live healthy and productive lives to be able to maximize our positive impact on our communities. The Health Area will feature health screenings, engaging discussions and activities to help you maintain your well-being.



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# Convention Tours

### INDIANAPOLIS MOTOR SPEEDWAY TOUR

Do you have a need for speed? Well, Nicole Lyons, the first black female professional drag racer, will give NSBE a tour of the Indianapolis Motor Speedway. The Speedway, the world's largest spectator sporting facility, plays host annually to the Indianapolis 500, the Brickyard 400 and the Red Bull Indianapolis GP. A light lunch will be provided during the tour, which is geared toward Pre-College Initiative (PCI) Conference attendees.



### ROLLS-ROYCE TOUR

Rolls-Royce is a world-leading provider of power systems and services for use on land, at sea and in the air, and has established a strong position in global markets. The Indianapolis facility features an extensive collection of aircraft engines made by Rolls-Royce and USA predecessor Allison Engine Company. The collection ranges from the World War I-era V-12 Liberty to modern-day products such as the Joint Strike Fighter LiftFan.



# Hospitality Packets

The hospitality packets are part of your welcome to Indianapolis for the 39th Annual Convention. Each packet provides convention details tailored toward a specific demographic (i.e., Pre-College Initiative Conference, Collegiate Conference, Graduate School Conference or Technical Professionals Conference attendees). Members can find information about the packets on the "Downloads" page of the convention.nsbe.org website.

We want to make sure you get the chance to enjoy Indianapolis. Whether during the convention or on your own time, you will find the Circle City always has something unique to offer. The hospitality packets will highlight many activities Indy has to offer. To learn more about the city, check out [www.visitindy.com](http://www.visitindy.com).

#### Packet Highlights:

- Indianapolis Welcome
- #NSBE2013 Instructions
- Hotel and Travel Information
- Conference and City Maps
- Local Restaurants
- Shopping Areas
- Local Radio Stations
- Nearby Banks and ATMs
- Gas Stations and Convenience Stores
- Black-owned Businesses
- Tourist Attractions



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To lead.

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To astonish.

To express yourself.

To speak up.

To question.

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\*FORTUNE Magazine, 2012

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# 'Positively Impacting the Community' Indiana Black Expo, Inc.

## SUMMER CELEBRATION

NSBE members worked several events during the 42nd Annual Summer Celebration of the Indiana Black Expo, Inc. They included Children's Day, various vendor booths and the Youth Leadership Summit, which was titled "Across the Water – Global Opportunities Global Impact - Time w/ Africa." The summit was a joint effort between NSBE and Purdue University. NSBE's national chair, Calvin A. Young III, served as keynote speaker. During the event, local youth were introduced to the NSBE Ghana chapter, who joined the session via Skype. A panel of participants discussed ways to solve global problems from the young people's perspective, and, afterward, members of the Convention Planning Committee shared information about the 2013 Annual Convention. This exciting event was assembled by Purdue's Minority Engineering Program director, Virginia Booth-Glehorn, who is a former NSBE national chair.

## CIRCLE CITY CLASSIC

Each year, the Indiana Black Expo puts on the Circle City Classic, a sports, entertainment and education event whose proceeds go toward scholarships for students in Indiana. This past Oct. 6, NSBE participated in the parade of the 29th Annual Circle City Classic, which also included a football game between two historically black colleges; a battle of the bands; a step show; a comedy show and many other community events. Members of NSBE's 2013 Annual Convention

Planning Committee, NSBE's Indianapolis Alumni Extension Chapter and NSBE's Indiana University-Purdue University Indianapolis (IUPUI) Chapter marched in the parade and passed out convention flyers to the audience. The Classic was a great way to showcase NSBE for the Indianapolis community and invite them to our Annual Convention. For the parade, NSBE partnered with Arsenal Technical High School's Career Technology Magnet program, and IUPUI. NSBE gives its heartfelt thanks to the high school students who built and decorated our "Road to Success" float for the parade and marched along with our organization.



(Above) Members of NSBE's Indiana University-Purdue University Indiana Chapter, NSBE's Indiana University Alumni Extension Chapter and NSBE 2013 Annual Convention Planning Committee, at the Circle City Classic Parade, last October. (At right) Circle City Classic float, built by students from Arsenal Technical High School in Indianapolis





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## LET'S GET TO WORK.





# The City of Indianapolis

**A**ccording to worldatlast.com, Indianapolis, the "Crossroads of America" and the capital city of the State of Indiana, is conveniently located one day's driving distance from half the nation's population.

Indianapolis, affectionately referred to as "Indy" or "Circle City," offers a vast array of arts, attractions, historical sites and eclectic cultural districts located in or near the downtown center.

Indy's reputation as a sporting capital is well-deserved. The city is home to the Indiana Pacers of the NBA, the Indianapolis Colts of the NFL, the National Collegiate Athletic Association (NCAA), the WNBA's Indiana Fever, the Indianapolis Indians of minor league baseball's International League, the Indiana Ice hockey team and the Indianapolis Impalas, a USA Rugby Football Union team.

Thanks to the addition of the new Lucas Oil Stadium, the 2012 NFL Super Bowl XLVI was held in Indy, filling the city's thousands of hotel rooms and

offering opportunities to explore the vibrant and exciting downtown and more than 200 great restaurants.

The "Racing Capital of the World," Indianapolis, is home to the two largest single-day sporting events in the world: the Indianapolis 500 and NASCAR's Brickyard 400, both held annually at the Indianapolis Motor Speedway. The Lucas Oil Raceway in Indy hosts the National Hot Rod Association's largest, oldest and richest drag race in the world every Labor Day weekend: the Mac Tools U.S. Nationals.

Indy isn't just about sports. The Children's Museum of Indianapolis — the world's largest children's museum — is here. North America's largest water clock — more than 17 feet tall — is located on the north side of the Indiana State Museum. Don't miss the Canal Walk, the Indianapolis Zoo, the 284-foot Soldiers' and Sailors' Monument at Monument Circle, the White River State Park — the only urban state park in Indiana — downtown, and the many other attractions of this great city.

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# Tourist Attractions

## THE CHILDREN'S MUSEUM OF INDIANAPOLIS

Established in 1925, the Children's Museum of Indianapolis has become one of the world's most renowned children's museums. Its mission is "to create extraordinary learning experiences across the arts, sciences, and humanities that have the power to transform the lives of children and families." The museum delivers these learning experiences through interactive exhibits — such as "Hot Wheels For Real!" and SpaceQuest Planetarium — and live theatre performances. Plan wisely, because it will be extremely difficult to leave without experiencing all five fun-filled floors! For more information, visit [www.childrensmuseum.org](http://www.childrensmuseum.org).

## THE CANAL WALK

Also known as the "cultural corridor" of Indianapolis, the Canal Walk, a part of the Indiana Central Canal, is one of the most precious gems Indianapolis has to offer. The Canal was dug in the early 1800s as a failed effort to promote interstate commerce between the cities of Peru and Evansville, Ind. Rehabilitated in the 1980s, the canal and the Canal Walk serve Indianapolis as a small water supplier and an attraction that locals and tourists enjoy daily. If you like to walk, run, pedal-boat or just relax, be sure to check this out! For more information, please visit [www.DiscoverCanal.com](http://www.DiscoverCanal.com).



## MADAME C.J. WALKER BUILDING AND THEATRE CENTER

Developed by the first "self-made" female millionaire, the Madame C.J. Walker Building and Theatre Center was opened in 1927 by her daughter A'Lelia Walker. Madame C.J. Walker is known for inventing black hair care products and styling tools such as the pressing comb. The mission of the Center is to "(celebrate) the best of African American culture and performance arts, by nurturing youth through arts education and by providing a welcoming venue for arts programming and entrepreneurial activities for all cultures in our community and nation." An internationally recognized National Historic Landmark, the center serves as a museum, fine arts theatre, art gallery and event space. Notably, the center was the meeting place where the NSBE Indianapolis Alumni Extension Chapter began.





# Graduate School Conference Highlights – GSC



**Michele Lezama, Executive Director,  
GEM Consortium; NSBE 2013 Graduate  
School Conference Committee Chair**

**T**he newly formatted Graduate School Conference (GSC), in partnership with The National GEM Consortium (GEM), will offer workshops, networking sessions, receptions and the annual African American Engineering Deans Forum. The conference is designed for undergraduates who are thinking about graduate school, as well as for current graduate school students, university faculty and staff, and industry representatives interested in hiring top research and technical professionals.

**PRE-EVENT – WEDNESDAY,  
MARCH 27, 1:00 P.M.–5:00 P.M.  
GEM GRAD Lab – Getting Ready  
for Advanced Degrees Laboratory**

Are you thinking about going to graduate school in a STEM major? Has someone ever said to you, "You should think about going to graduate school," but you think you should get a job immediately after undergraduate? Are you a working professional who has hit the glass ceiling and recognizes the need to go back to school to advance your career, but you are not sure whether going back to school is worth it? If you fit into any of these categories, the GRAD Lab is the program for you!

This dynamic, down to earth, ask your questions "for real, for real" symposium will cover subjects such as "Why Graduate School?", "How to Fund Graduate School" and how to submit a competitive graduate application. Faculty and industry representatives and current STEM graduate students will present insider information.

This is a pre-event symposium, held before the Opening Session, to give attendees the best tools to navigate the NSBE Annual Convention and help you make the best career decision for you.

**TECHNICAL RESEARCH EXHIBITION – THURSDAY, MARCH 28,  
9:00 A.M.–5:30 P.M.**

The Technical Research Exhibition (TRE) is a competition designed to showcase NSBE members' skills in technical writing, theoretical research and oral presentation. The competition provides a venue for undergraduate and graduate students and technical professionals to present their research

findings. Competitors are judged by engineering professionals in both industry and academia and are ranked based on the technical content of their research and quality with which they communicate it. Finally, TRE seeks to encourage undergraduate students to showcase their research and pursue graduate degrees.

**OPENING EVENT – THURSDAY, MARCH 28, 11:30 A.M.–1:00 P.M.**

**GSC Kickoff: How to Make a Million Dollars in Four Semesters**

*Keynote Speaker: Howard G. Adams, Ph.D.*

Attend this kickoff lunch (read "free food") to learn how you can increase your net worth by \$1 million just by making one simple decision! Space will be available on a first come, first served basis, so please arrive early to get your prime seat at this dynamic event.

**FEATURED EVENT – FRIDAY, MARCH 29,  
1:00 P.M.–3:00 P.M.**

**African American Engineering Deans Forum**

Attend this dynamic gathering of academicians, undergraduates and current graduate students, to engage in dialogue about national efforts to increase retention of engineering students, particularly African-American students, with engineering deans of African descent serving at majority institutions.

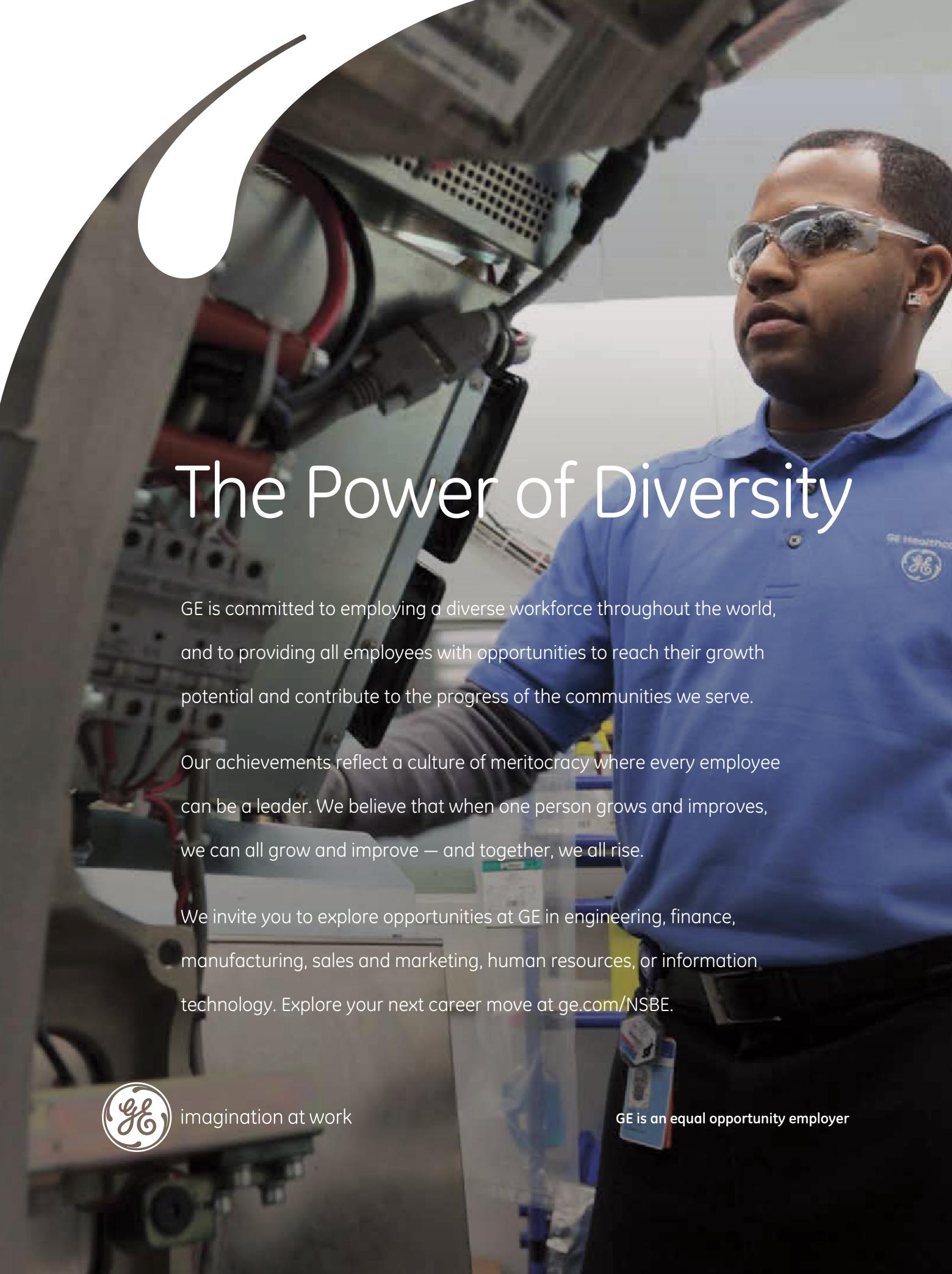


**Gary S. May, Ph.D., Georgia Institute of Technology**   **Lance Collins, Ph.D., Cornell University**   **Darryl Pines, Ph.D., University of Maryland**   **Gregory Washington, Ph.D., University of California, Irvine**   **Yaw Yeboah, Sc.D., Florida State University**

**CLOSING EVENT – FRIDAY, MARCH 29, 7:30 P.M.–9:00 P.M.**

**Faculty-Student Networking Reception**

If you are even remotely thinking about attending graduate school, are now attending graduate school, are looking for a post-doc, and/or are considering a career in the professoriate, this is a must-attend event! Engineering faculty will be available to network with you in functional groups by research area on graduate-level research and funding opportunities.



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CONTINUED FROM PAGE 52

## Graduate School Conference Highlights – GSC

### Our Road to Leadership Includes Making an Impact Along the Way

#### WORKSHOP TRACKS

##### Prospective Graduate Students

- GEM GRAD Lab (Pre-Event Symposium): Why Graduate School?; How to Apply to Graduate School; How to Fund Graduate School; Voices from the Field, Real-Life Experiences
- How to Succeed in Graduate School: Understanding the Graduate School Lingo
- Grad School First, Work Later
- Exploring Professional Degrees: M.B.A., Law or Medicine with an Engineering Undergraduate
- Composing Your STEM Graduate Student Life

##### Current Graduate Students

- The Big D: How to Write Your Dissertation and Live to Tell about It
- Proposal Writing That Yields Results
- Negotiating Your First Industry/Lab Contract
- Righting the Writer's Block: How to Approach Scholarly Writing from a Mindful Perspective
- Ins and Outs of the Tenure Track Process
- Post-doc: Where and Why Do It?



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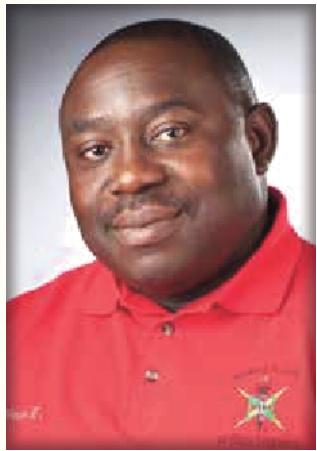


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# Technical Professionals Conference Highlights – TPC



**Nosa Egharevba, Technical Professionals Conference Chair, NSBE 2013 Annual Convention Planning Committee**

**I**t's time for us, once again, to embark on our yearly journey of networking, enhancing our professional skills and showcasing our unique talents as NSBE professionals, at the Annual Convention, to be held this year in "the Circle City," Indianapolis, Ind. Time-honored programs that have become a staple of the TPC agenda will be showcased, with an exciting selection of workshops, panel discussions, corporate roundtables and professional development training that address the global challenges and opportunities faced by our members in this global environment. Our special events and entertainment will showcase the diverse landscape of Indianapolis and also provide networking opportunities, so you don't want to miss out.

## **SPECIAL INTEREST GROUP RECEPTION**

Join the Special Interest Groups (SIGs) at their annual reception. The event provides our target audience the opportunity to gain additional knowledge of the SIGs.

## **SIG PANEL DISCUSSIONS**

Experience these industry-related sessions hosted by NSBE SIGs, featuring one to five presenters. The sessions provide a targeted audience for employer representatives, while engaging in focused discussions and information exchange with experienced NSBE professionals. Our SIGs represent the following areas: Energy, Environment, Information Technology Think Tank, Process Improvement, Public Policy, Space, and Women in Science and Engineering (WiSE).

## **ALUMNI JOINT REGIONAL MEETING**

The Joint Regional Meeting is as an opportunity for all six NSBE-AE regions to gather, acknowledge their new Regional Alumni Executive Boards, and recognize outstanding Alumni chapters and individuals for their hard work this year.

## **TPC CORPORATE ROUNDTABLES**

The TPC Corporate Roundtables are a signature program of the Technical Professionals Conference and a great opportunity to engage technical professionals. These events feature senior-level executives engaged in moderated discussions on a variety of topics and critical issues impacting their organizations, industries and society.

## **INSIDE THE EXECUTIVE SUITE**

A one-on-one interview format with a high-profile corporate executive, government official, nonprofit leader or celebrity figure with relevance to science, technology, engineering and math. This event gives organizations the opportunity to enhance their brands and showcase their senior-level executives in an intimate setting.

## **EXECUTIVE MENTORING**

The Executive Mentoring program exposes technical professionals to executive leaders in their field, providing invaluable one-on-one time to discuss professional and career development, work-life balance, best practices and other matters. Protégés will provide their resumes and points of concern for the executives to review. The executive mentor will then discuss possible solutions for the protégé.



# Technical Professionals Conference Highlights – TPC

## WORKSHOPS

The TPC workshops are designed to enhance the careers of professionals at all stages of their careers. A few of the many topics include, "Getting Your FE and PE Licenses: Is It for You?"; "(Being a Young Professional) What's My Next Move?"; "Introduction to Systems Engineering"; and "How to Set Yourself Apart: Keys for Success in the Workplace."

## CERTIFICATION WORKSHOPS

The following certification workshops will be offered over three days: "Improving Your PM Skills"; "Emerging Leaders Program"; "Multi-Project Management"; and "Lean Certification."

## NSBE ALUMNI CORPORATE INVITATIONAL

The NSBE Alumni Corporate Invitational is a signature networking event of the NSBE Annual Convention. It brings experienced professionals from various technical disciplines together with corporate representatives seeking talented individuals for career opportunities. Participating employers receive an exhibitor table. This event has proven to be an optimal destination for employers to engage highly talented professionals while promoting career opportunities, company services, and new products and initiatives in a social atmosphere.

*May 23 - May 27, 2013*

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connect to <http://nsbe-ae.org>

National Society of Black Engineers



# TPC Corporate Roundtables

**T**he TPC Corporate Roundtables are a signature program of NSBE's Technical Professionals Conference. This popular event features senior-level executives and managers engaged in moderated discussions on a variety of topics and critical issues impacting their organizations, industries and society.

## DIVERSITY AND INCLUSION AS A BUSINESS IMPERATIVE

**Thursday, March 28, 1:10 p.m.–2:30 p.m.**

*Sponsored by Baxter Healthcare, Comcast-NBC Universal, Cummins Inc., Genentech, Inc., Lockheed Martin Corporation and Walmart*

Today, 34 percent of private-sector employees are minority, and half of all workers in the U.S. are women. Although this is significant progress, the need to consider diversity and inclusion in our corporate workplaces is imperative: diversity of thought and experience can also lead to greater innovation, increased employee engagement and retention, and better customer relationships. This panel will explore how to keep diversity and inclusion at the forefront of the business strategy and will also share some best practices on how small companies can successfully partner with large corporations on this initiative.

## TECHNOLOGY AND INNOVATION: MANUFACTURING THE 21ST CENTURY U.S. WORK FORCE

**Thursday, March 28, 4:10 p.m.–5:30 p.m.**

*Sponsored by Genentech, Inc., MWV*

What will the future of U.S. manufacturing look like? For the past 30 years, huge advances in automation have helped the U.S. maintain a global leadership position. However, manufacturing's impact on the gross domestic product, the number of employees in the industry, and R&D industrial dollars has steadily dropped. Will traditional manufacturing still be an important part of the U.S. economy? This panel discussion will focus on the new innovations and trends in industry to sustain and elevate U.S. manufacturing. Our panelists will also share their perspectives on other industry drivers that will impact manufacturing, such as globalization, environmental guidelines, supply chain management and new consumer preferences.

## CLEAN ENERGY REVOLUTION: CREATING A CULTURE OF SUSTAINABILITY

**Friday, March 29, 1:10 p.m.–2:30 p.m.**

*Sponsored by BASF Corporation, Bechtel Corporation, CH2M Hill, Cummins Inc. and Walmart*

According to the U.S. Census Bureau, the human population of the planet will surpass nine billion by 2050. With this increase comes a challenge to design efficient and sustainable energy solutions not only to meet the projected global energy demand but also balance our reliance on traditional fossil fuels. From researching and designing new technologies to educating the consumers, companies are making strategic decisions to be a key player in the clean energy revolution. Our panelists in this session represent top companies in industry who are committed to the clean energy revolution. They will present some of their current and future projects, corporate initiatives and strategies contributing to clean energy solutions.





# Pre-College Initiative Conference Highlights — PCI

This convention will be filled with tons of activities for pre-college students. There will be tours, evening entertainment and even a few celebrities to meet while attending the PCI Conference. This year, we will introduce two new events to our long lineup of convention competitions: the NSBE NASCAR Ten80 Student Racing Challenge, and iDesign. And we are proud to announce NSBE Fit, an event to make you aware of the steps you can take to live a healthy and well-balanced life. As part of NSBE Fit, you can participate in the NSBE 5K Run!

Here are a few items on the agenda.

## WORKSHOPS

It is important that our pre-college students stay aware of what's current in the ever-changing fields of science, technology, engineering and math (STEM). The future lies in their hands, and they must know what is happening now to be able to create the change needed in the future. Workshops will showcase today's industry, how to prepare for college and how to realize personal potential. Highly educated, experienced and talented professionals conduct each workshop.

Workshop topics include: "No Is Not a Bad Thing"; "What Is a Culturally Responsible Engineer?"; "Your Personal Brand"; "Leadership: The Universal Skill Set"; "Managing College Success"; "MADE to Lead the Way"; "All I Do Is Win" and "The Mountaintop Is Still Tall."

## COMPETITIONS

### Science Fair

The Science Fair competition gives students an opportunity to research, in detail, a topic chosen by and interesting to them. The goals of the competition are to introduce students to the scientific method, engage them in problem solving, sharpen their writing skills, develop their presentation skills, recognize their scientific skills and abilities, and allow them to use research resources.

### Engineering Design Competition

The Engineering Design Competitions for middle and high school students are hands-on, team-oriented, collaborative activities that involve mathematics, physics, mechanical engineering, software engineering, computer engineering, electrical engineering and industrial engineering. The activities this year are Sumo Robots for high school students and Robo Hoop for middle schoolers.

### MATHCOUNTS

NSBE has partnered again with MATHCOUNTS, the nation's premier middle school mathematics enrichment program, to present the NSBE MATHCOUNTS Competition at the 2012 Fall Regional Conferences and 2013 Annual Convention. In Indianapolis, teams of four students will participate in the competition, which includes Sprint, Target and Team Rounds.



**SherAaron Hurt, Pre-College Initiative Conference Coordinator, NSBE 2013 Annual Convention Planning Committee**



CONTINUED FROM PAGE 59

## Pre-College Initiative Conference Highlights – PCI



### iDESIGN

Students participating in the new iDESIGN competition will be walked through business plan development and how to use a software development kit to create software.

### Try-Math-A-Lon

Try-Math-A-Lon (TMAL) is a tutoring program meant to foster good study habits in minority high school students, help prepare them for standardized tests such as the ACT and SAT, and promote competition and good sportsmanship. Participants seek to advance from local to Fall Regional Conference TMAL competitions. The winning regional TMAL teams go on to compete for the TMAL WORLD national title at the Annual Convention.

### TMAL: Amazing Race Math Edition

The TMAL Amazing Race: Math Edition is designed to measure excellence in Try-Math-A-Lon teams who did not register by the deadline for participation in the local competition, did not win a local competition or did not win the competitions held at the Fall Regional Conferences. Amazing Race Math Edition was created to ensure that all students receive year-round tutoring and training, and to provide an opportunity for students who are not high achievers to receive the same level of attention and tutoring that the top students receive.

### Kid Zone: National Elementary Science Olympiad

The Elementary Science Olympiad is designed to stimulate enthusiasm for science and mathematics through competitions of skills and knowledge. Students meet for a program of competitive events in an academic setting. The event is open to students in grades 3–5. Students in kindergarten through grade 2 will participate in a noncompetitive league. Teams of up to five students will compete in 18 different events at the Annual Convention. Elementary schools from the Indianapolis area have been invited to participate in the Olympiad.

### NSBE NASCAR Ten80 Student Racing Challenge

The NSBE NASCAR Ten80 Student Racing Challenge is a project-based science, technology, engineering and mathematics (STEM) curriculum for middle school students, based on the themes of motorsports and sustainable, safe transportation. Students form motorsports teams that compete using 1:10-scale electric radio-controlled cars. The teams include engineers, scientists and business, marketing and creative professionals, whose goal is to win races through creatively engineering a strong, fast and efficient car. There is a role for everyone, with projects that range from graphic design to 3-D computer-aided design modeling to conversion of cars to run on a hydrogen fuel cell. The winner at the Annual Convention will represent NSBE at the Ten80 National Finals, to be hosted by Charlotte Motor Speedway in May 2013.



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# Exhibitors Listing

NSBE's annual Career Fair, Graduate School Fair and College Fair offer unmatched opportunities to meet top employers and academic recruiters. Build your future here!

## CAREER FAIR

EXHIBITOR	BOOTH NUMBER	EXHIBITOR	BOOTH NUMBER	EXHIBITOR	BOOTH NUMBER
3M .....	211	Eli Lilly and Company.....	409	Louisville Gas & Electric and Kentucky Utilities .....	520
Accenture .....	323	EMC Corporation .....	920	Mayo Clinic.....	852
The Aerospace Corporation.....	856	ESPN .....	731	Merck & Co., Inc. ....	901
Alcoa, Inc. .....	205	Exhibitor Lounge.....	947	Microsoft Corporation.....	1052
American Eagle Airlines/American Airlines.....	425	Exxon Mobil Corporation .....	706	MIT Lincoln Laboratory .....	854
Arup .....	423	Fluor Corporation.....	617	Molex Corporation.....	937
ASCE .....	880	Ford Motor Company.....	429	Morgan Stanley .....	504
ASME.....	879	Freescale Semiconductor, Inc. ....	1009	MWV .....	716
BAE Systems, Inc. ....	1005	GE .....	923	NAVISTAR.....	1011
Baker Hughes.....	722	Genentech, Inc. .....	824	NCEES .....	876
Ball Aerospace & Technologies Corp.....	621	General Dynamics .....	861	NSBE .....	847
BASF Corporation .....	1030	General Mills, Inc. ....	811	Northrop Grumman Corporation .....	309
Battelle .....	302	General Motors Corporation.....	301	PG&E .....	1017
Baxter Healthcare.....	607	Georgia Pacific LLC .....	1035	Procter & Gamble .....	622
Bechtel Corporation.....	601	Goldman Sachs .....	500	QinetiQ North America .....	1034
BMPC Bettis Laboratory.....	1028	Goodyear Tire and Rubber Company .....	846	Raytheon Company.....	223
The Boeing Company.....	801	Hallmark Cards .....	628	Rockwell Automation.....	522
Booz Allen Hamilton .....	727	Harley-Davidson Motor Company.....	1043	Rockwell Collins .....	929
Boston Scientific Corporation .....	117	Hensel Phelps Construction.....	630	Rolls-Royce .....	1036
BP .....	943	Hewlett-Packard Company .....	401	San Diego Gas & Electric Company .....	405
Brown and Caldwell .....	1041	Honda of America Mfg., Inc. ....	701	San Francisco Public Utilities Commission ...	1010
Campbell Soup .....	201	Huntington Ingalls Industries.....	837	Shell.....	717
Cargill .....	725	IBM Corporation .....	517	Society of Women Engineers .....	858
CA Technologies .....	729	Illinois Department of Transportation.....	131	Tesoro Companies Inc. ....	1172
Caterpillar Inc. ....	829	Ingersoll Rand.....	129	Texas Instruments Incorporation .....	916
Central Intelligence Agency.....	123	INROADS.....	864	Thoughtworks .....	1073
CH2M Hill .....	907	Intel Corporation .....	501	Toyota Motor Engineering & Manufacturing North America, Inc. ....	507
Chevron .....	317	International Paper .....	619	Turner Construction Company .....	935
Chrysler Group LLC.....	629	Jacobs Engineering .....	1039	UNCF Special Programs Corporation .....	881
Cisco Systems, Inc. ....	304	John Deere.....	229	Union of Concerned Scientists.....	877
The Clorox Company .....	1056	Johns Hopkins University Applied Physics Laboratory .....	862	Union Pacific Railroad .....	939
Comcast-NBCUniversal .....	523	Johnson & Johnson .....	871	United States Army.....	710
ConAgra Foods .....	623	Johnson Controls, Inc. ....	611	United States Coast Guard.....	101
The Consortium .....	860	JPMorgan Chase & Co. ....	720	United States Marine Corps.....	817
Cook Medical.....	938	Kimberly-Clark Corporation .....	417	United States Navy.....	709
Cummins Inc. ....	953	Kroger.....	518	United Technologies Corporation .....	217
Dell Inc. ....	828	The Lane Construction Corporation .....	203	URS Corporation .....	835
Delphi.....	1006	Lexmark International, Inc. ....	516	USAA .....	934
Delta Air Lines, Inc. ....	911	Life Technologies .....	843	Volkswagen Group of America, Inc. ....	839
Deutsche Bank .....	1170	Lincoln Electric.....	228	Walmart .....	329
The Dow Chemical Company .....	853	Lockheed Martin Corporation.....	111	Whirlpool Corporation.....	529
DuPont .....	821	The Lubrizol Corporation.....	936		
Eaton Corporation .....	917				

CONTINUED ON PAGE 64



I see the opportunities ahead



I thrive on challenges



I have the tools to succeed



I inspire innovation

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CONTINUED FROM PAGE 62

## Exhibitors Listing

### GRADUATE SCHOOL FAIR

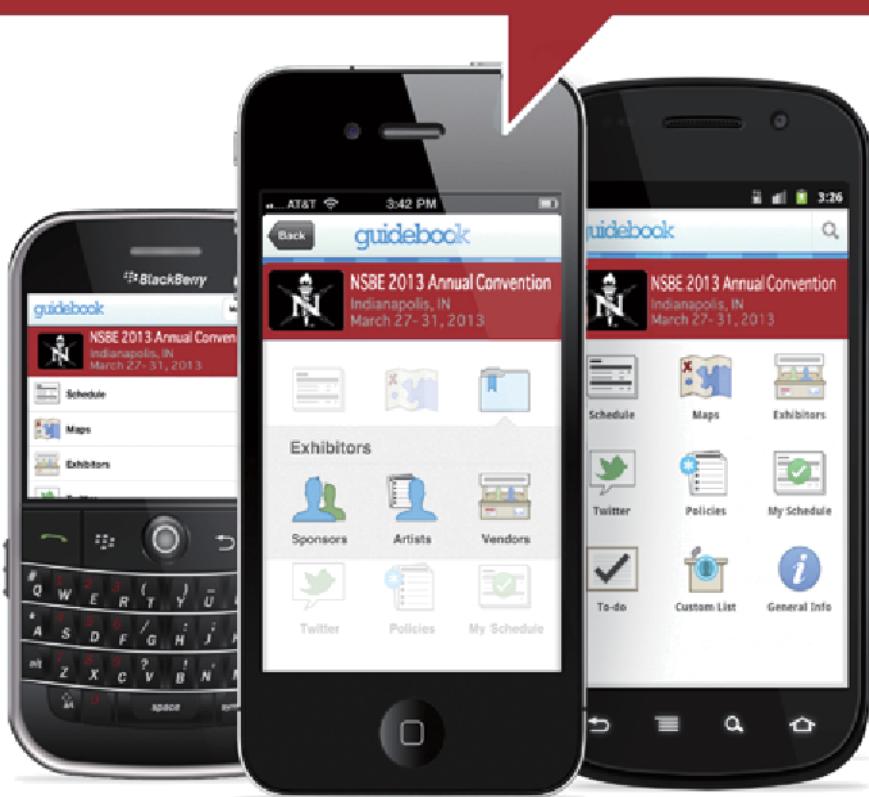
EXHIBITOR	BOOTH NUMBER	EXHIBITOR	BOOTH NUMBER	EXHIBITOR	BOOTH NUMBER
Arizona State University Ira A. Fulton Schools of Engineering.....	546	Iowa State University.....	636	UCLA School of Engineering .....	745
Auburn University.....	448	Keck Graduate Institute of Applied Life Sciences.....	644	University of Akron, College of Polymer Science and Polymer Engineering.....	738
Boise State University Materials Science and Engineering Department .....	642	Lehigh University.....	537	University of Alabama in Huntsville Minority Graduate Student Association .....	541
Carnegie Mellon University, CIT Engineering .....	735	Marquette University Electrical & Computer Engineer.....	539	University of California, Berkeley.....	538
Carnegie Mellon University, Information Networking Institute.....	447	Massachusetts Institute of Technology .....	840	University of California, Davis.....	534
Clemson University Department of Automotive Engine .....	446	NASA .....	971	University of Delaware.....	641
Cornell University – Diversity Programs in Engineering.....	743	Nashville Convention and Visitors Bureau.....	1071	The University of Florida College of Engineering.....	637
Dartmouth College/Thayer School of Engineering.....	441	NJIT .....	445	University of Michigan-College of Engineering.....	434
Delaware State University .....	634	North Carolina A&T State University, College of Engineering.....	443	University of New Mexico - School of Engineering.....	543
FAMU/FSU College of Engineering .....	440	North Carolina State University, College of Engineering.....	544	University of Notre Dame ESTEEM Program .....	742
The Fu Foundation School of Engineering and Applied Science.....	640	Northeastern University.....	535	University of Pennsylvania – Penn Engineering.....	639
GEM.....	635	Norfolk State University.....	536	University of Pittsburgh Swanson School of Engineering.....	842
The George Washington University School of Engineering and Applied Science .....	741	Northwestern University .....	545	The University of Texas at Austin – Cockrell School of Engineering .....	647
Georgia Institute of Technology .....	444	Princeton University, School of Engineering, Applied Science .....	744	Virginia Tech – College of Engineering.....	734
Harvard Business School.....	746	Purdue University .....	435		
Indiana University-Purdue University Indianapolis (IUPUI) .....	442	Purdue University – College of Engineering.....	439		
Indiana University Robert H. McKinney School of Law .....	648	Rensselaer Polytechnic Institute .....	736		
		Rice University Office of Diversity and Inclusion .....	638		
		Rochester Institute of Technology.....	540		
		Texas A&M University – Dwight Look College of Engineering.....	643		

### COLLEGE FAIR

EXHIBITOR	BOOTH NUMBER	EXHIBITOR	BOOTH NUMBER	EXHIBITOR	BOOTH NUMBER
Case Western Reserve University.....	237	Rose-Hulman Institute of Technology .....	342	University of Maryland/Center for Minorities in Science and Engineering.....	24
Central State University .....	241	Saint Louis University Parks College of Engineering, Aviation and Technology .....	239	University of Michigan – College of Engineering .....	335
Georgia Institute of Technology .....	345	Tuskegee University/Materials Science & Engineering .....	247	University of Nebraska – Lincoln College of Engineering .....	336
Jackson State University.....	542	University of Arkansas – College of Engineering .....	343	University of Pittsburgh – School of Information Sciences.....	145
Michigan Tech University.....	348	University of California, Davis.....	234	University of Pittsburgh Swanson School of Engineering .....	844
MIRTHE Center .....	338	University of California, Santa Cruz .....	246	Virginia Tech – College of Engineering .....	339
Mississippi State University .....	347	University of Cincinnati.....	236, 238, 240	Villanova University.....	242
NJIT .....	245	University of Dayton .....	334		
The Ohio State University, College of Engineering .....	340	University of Illinois at Urbana-Champaign College of Engineering .....	341		
Penn State University, Office of Engineering Diversity .....	235				
Pratt School of Engineering – Duke University .....	346				

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# guidebook



# Entertainment



Marlon Patton, Entertainment Coordinator, NSBE 2013 Annual Convention Planning Committee

We have a lot of great entertainment activities planned for you. Check out the descriptions below, and we look forward to seeing you at the 39th Annual Convention in Indianapolis!

## NSBE FEUD

NSBE FEUD will feature a “Family Feud”-style competition between NSBE members to test them on their history of the organization, as well as their black history facts. Winners of the competition receive VIP access to Casino Night, which will take place Friday evening. This event provides a fun and friendly, competitive way for members to test their knowledge.

## CASINO NIGHT

Ohio's best new disc jockey, DJ HD, will be at the collegiate party on Friday. The event will have professional casino dealers and games available for FREE! Convention attendees can come out and have a fun experience, with all expenses covered.

## FASHION/TALENT SHOW

Do you like to sing, dance, rap or play an instrument? Do you think you have what it takes to walk the runway? Our combined fashion show and talent show will showcase the talents of NSBE Jr. and other Pre-College Initiative Conference attendees and also enable young people to see the latest fashions.

## NSBE CHOIR GAMES

The NSBE Choir Games model the World Choir Games that took place in Cincinnati during the summer of 2012. Members from all NSBE regions will join to form a choir to open the games. Later, local choirs will perform to determine who will become the NSBE choir champion. Surrender will headline the concert and perform after the local choirs have performed.

## RED CARPET AFFAIR

How classy, elegant and smooth are you? Pre-College Initiative Conference participants will end the 39th Annual Convention with a night of elegance and fun. The Red Carpet Affair will be an “after 5” shindig, where everyone can show how smooth they really are. Pull out your suits, tuxedos and evening gowns. Sorry, no jeans or gym shoes will be allowed.

## TEEN SUMMIT/KIDZ CORNER

As students growing up in today's society, you face many challenges in your daily lives. We realize it's important to talk about issues openly and freely, so, in this session, young people will have the opportunity to discuss education, sex, drugs, bullying, college and social media. Most exciting of all, there will be a celebrity host! Who is it? Find out by attending the event!

## TECHNICAL PROFESSIONALS NIGHTLIFE

The TPC Kickoff Reception and Party occurs on the opening night of the Annual Convention and will serve as the official start of the 2013 Technical Professionals Conference. “Showcase Indy: A Black, White & Diamond Affair” will be a classy event with stepping lessons and live music. Last, there will be a Return of the Original Old School Party.

#NSBE2013: Honoring our Past,  
Driving our Community Forward

# 39<sup>th</sup> Annual Convention

MARCH 27-31, 2013



NATIONAL SOCIETY OF BLACK ENGINEERS



OPENING SESSION  
with Award Winning Journalist  
**ROLAND MARTIN**

March 27<sup>th</sup>  
7:00 p.m. - 9:00 p.m.  
OFFICIAL KICK-OFF EVENT!

**FREE Events:**  
*Open to the Public*

**"PUBLIC MEETING ON STEM"**  
Hosted by Mike Muse  
March 27<sup>th</sup>  
4:30 p.m.-6:00 p.m.



## NSBE SHOWCASE

March 27<sup>th</sup> 11:00 a.m.-6:30 p.m.  
March 30<sup>th</sup> 11:00 a.m.-4:00 p.m.  
(Located in Exhibit Hall A)

## NSBE 5K

March 30<sup>th</sup>  
7:00 a.m.-9:00 a.m.  
\$20 for Non-Members  
\*Registration is required



**Indiana Convention Center**  
Indianapolis, IN

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**<http://convention.nsbe.org>**



/nsbeconvention



/nsbeconvention

\*Volunteer Opportunities Available



# Passing the Golden Torch

**T**he NSBE Golden Torch Awards are the top honor given by the National Society of Black Engineers. Now in their 16th year, these awards recognize individuals and organizations that exemplify NSBE's ideals of academic excellence, professional success and dedication to the advancement of the black community. The culminating event of NSBE's Annual Convention, the NSBE Golden Torch Awards ceremony will take place this year on Saturday evening, March 30, at the Indiana Convention Center, in Indianapolis. The ceremony is a great show with a higher purpose. Since their inception, the NSBE Golden Torch Awards have provided millions of dollars in scholarships to talented high school seniors



## GOLDEN TORCH LEGACY AWARD

### **Pat Walker Locke**

President

*Life Plan Services LLC and Seeds of Humanity Foundation Inc.*

Pat Locke was raised in Detroit, Mich. A year after graduating from high school, she enlisted in the United States Army as a communication specialist and was assigned to Fort Polk, La. In January 1976, she was selected to attend the United States Military Academy Preparatory School and subsequently attended the United States Military Academy at West Point, N.Y.

Locke graduated with the first class of women from the United States Military Academy, in 1980 and was commissioned as a combat arms officer in the Army. By Order of Merit, she is the first African-American woman to graduate from West Point. After leaving the academy, she served in many leadership positions with the Army worldwide. She retired from active service in 1995.

Locke founded the Seeds of Humanity Foundation, Incorporated, to assist the training and development of underserved and underrepresented students and their influencers, specifically in ethics, leadership and science, technology, engineering and math (STEM) education. She spends a good amount of her time working with STEM initiatives across the nation. Recently, she established Life Plan Services, LLC, whose mission is to train and develop core life skills for those in transition and on their "ascent to excellence."

Locke is one of three cochairs of the West Point Leadership and Ethics Conference for 8th and 11th graders in the Washington, D.C., area. She is a frequent speaker to many audiences, most often to students in schools everywhere.

Locke has Master of Science degrees in education and administration. She resides in the National Capitol Region with her husband of 25 years, Michael Locke, and has a daughter, Sarah Locke, who is a West Point Cadet in the class of 2015.



## GOLDEN TORCH LEGACY AWARD

### **Joseph Irwin Miller**

(Awarded Posthumously)

Former Chairman and Chief Executive Officer

*Cummins Inc.*

Joseph Irwin Miller was chairman and chief executive officer of Cummins Inc. from 1934 until his retirement from the company in 1977, with time off for service during World War II. By the time he retired, he

had taken Cummins from a primarily Indiana-based company to a Fortune 500 corporation with operations in multiple countries across the world.

Born and raised in Columbus, Ind., Miller graduated from Yale University in 1931 and received his master's degree from Oxford University in England in 1933. He married his wife, Xenia, in 1943, and the couple had five children.

His strong beliefs in ethics, integrity and diversity led to a revolutionary approach to conducting business. He was a vocal proponent of workplace diversity many years ahead of his fellow corporate executives. He would only do business with companies that exhibited the same ethical values as Cummins, and he would not open operations in countries unless they followed those same values. Because of this, Dr. Martin Luther King Jr. called him "the most socially responsible businessman in the country."

While he was a tremendous leader for Cummins, Miller also dedicated his personal life to service and equality. He helped establish the National Council of Churches and served as the organization's first president, from 1960 to 1963. In that role, he was instrumental in sponsoring the March on Washington, which was led by Dr. King in 1963. Miller was ahead of his time, actively supporting civil rights legislation that eventually led to the Civil Rights Act of 1964.

Miller's legacy lives today in Cummins' values, ethics, commitment to diversity and spirit of innovation.



## GOLDEN TORCH LEGACY AWARD

### **Earl Shipp**

Vice President and Site Director of Texas Operations  
*The Dow Chemical Company*

As vice president of Texas Operations, Earl Shipp is responsible for leading The Dow Chemical Company's growth and operations at its Freeport site — the largest integrated chemical manufacturing complex in the world. He joined Dow in 1981 in Freeport, held several manufacturing positions over the next four years then progressed to leadership posts in the U.S. and abroad. He was named to his current office in 2011.

Shipp has been an active part of every community in which he has resided. During his early professional life, he mentored African-American youth on career and opportunities in engineering and science. He worked in a unique outreach program with the Baton Rouge School System that utilized Dow facilities in the area.

Today, Shipp is Dow's corporate sponsor for the National Society of Black Engineers. In this position, he actively promotes and recruits CONTINUED ON PAGE 70

# Recognition of a Values-Driven Life

## **Golden Torch Legacy Award Honoree: Joseph Irwin Miller (1909 – 2004)**

### **Early Adopters:**

Joseph Irwin Miller created the Cummins Foundation in 1954 to aid the growth of the Columbus community and to provide decent housing options. He helped establish the National Council of Churches and served as the organization's first president from 1960-1963. In that role, Miller was instrumental in sponsoring the March on Washington led by Dr. Martin Luther King Jr. in 1963. Because of this, Dr. King called him "the most socially responsible businessman in the country."



### **Innovative Decisions:**

Cummins was one of the first companies to adopt "Non-discriminatory Employment Practices" and actively recruit black managers and trainees between 1965-1973. During Apartheid in South Africa, Mr. Miller declined to invest, withdrew business and helped craft legislation that led to economic sanctions. He would only do business with companies that exhibited ethical values and he would not open operations in countries unless they followed similar values.



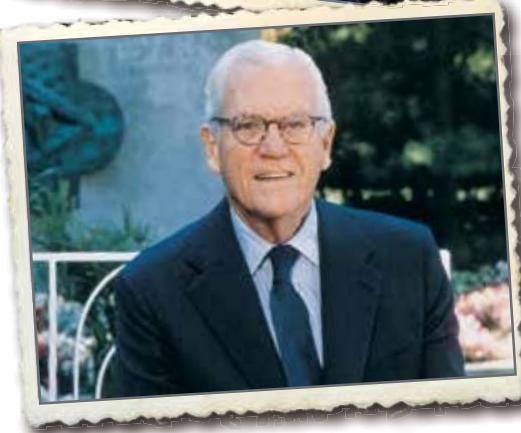
### **Role Models:**

Leaders at Cummins have continued to create and build our inclusive work environment - not just to continue his legacy, but because diversity has value to our Company. Looking to Mr. Miller as a role model, our current leaders are themselves role models to all employees. Cummins receives global awards, but the real recognition is for our employees who engage in over 150 Affinity Groups, give and receive thousands of mentoring hours and give back to their communities. They are why we are "Working Right."



### **Golden Torch Legacy Award:**

J. I. Miller dedicated his personal life to service and equality. Mr. Miller's legacy lives today in Cummins' values, ethics, commitment to diversity and spirit of innovation. We are honored with NSBE's selection for the "Golden Torch Legacy Award" honoree and we work daily to live our value of "improving the communities in which we live and work."





CONTINUED FROM PAGE 68

## Passing the Golden Torch

African-American employee candidates. Last year, he presented a \$100,000 grant from Dow to help launch NSBE's Summer Engineering Experience for Kids (SEEK) program in Detroit, Mich. For his outstanding contributions to diversity and inclusion in the workplace, Shipp was selected as the Corporate Diversity Champion by the 2012 Diversity Summit.

Shipp has participated actively in Habitat for Humanity for many years. Along with his wife, Zenia, he sponsors a scholarship for minority students in chemical process technology at Baton Rouge College: just one of his philanthropic activities. He has also served as a board or committee member for several high-level organizations and is the former chairman of the board of the New Orleans Branch of the Federal Reserve Bank of Atlanta.

Shipp has a chemical engineering bachelor's degree from Wayne State University in Michigan and is a graduate of the Indiana University Business School Consortium.



### CORPORATE COMMUNITY SERVICE

#### Key Link Technologies

Key Link Technologies has served communities and schools in Illinois for the past 20 years. Bernard Key, technologist, was one of the lead project managers responsible for deploying wireless technologies in Chicago schools in the 1990s. Mr. Key implemented, designed and deployed Wi-Fi solutions for more than 100 public and private schools and community centers. His wireless infrastructure design is now a standard for many of the inner city schools. As a result of that work, students' academic education is no longer confined to the classroom, desk or building.

During the deployment phase of this project, Mr. Key recognized the need to improve science, technology, engineering and math education and infrastructure in city schools. To address this problem, Key Link Technologies (KLT) was born. KLT's mission is to bridge the "digital divide" while mentoring youth with opportunities.

The company consists of two divisions. The Technology Group focuses on Wi-Fi development, research and network solutions. The Engineering Group focuses on student technology enrichment programs that engage students enrolled in kindergarten to college in robotics, radio control (RC) engineering, Wi-Fi deployment and other technology projects.

In 2006, NSBE, After School Matters and Motorola contracted Mr. Key to organize a US FIRST Robotics program for Englewood Technical Preparatory Academy, a public high school in Chicago. The school's first-year, rookie team finished 13th out of 60 teams in the US FIRST competition and advanced to No. 2 seed in the Midwest finals. Mr. Key also helped organize "Windy City CARES" a program of the National CARES Mentoring movement founded by Susan L. Taylor, former publications director of *Essence* magazine.



### GOVERNMENT DIVERSITY LEADERSHIP

#### Space and Naval Warfare Systems Command

The Space and Naval Warfare Systems Command (SPAWAR) acquires, installs, delivers and maintains advanced information technology capabilities for the United States Navy Fleet, to keep warfighters one step ahead of adversaries. In addition to SPAWAR Headquarters, located in San Diego, Calif., there are two SPAWAR Systems Centers: SPAWAR Systems Center Pacific (SSC Pacific) located in San Diego and Hawaii, and SPAWAR Systems Center Atlantic (SSC Atlantic) located in Charleston, S.C., New Orleans, La., and Norfolk, Va.

It is the vision and commitment of SPAWAR's leadership to continue its efforts to recruit, advance and sustain a diverse, inclusive, healthy and intellectually robust working environment to best compete in tomorrow's world. SPAWAR sets explicit diversity and inclusion objectives in its annual planning and reporting process.

REDISCOVER THE IMAGINATION OF INNOVATION

### "When I grow up I'm going to be a rocket scientist!"

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# Passing the Golden Torch

With an eye toward diversity, inclusion and career development, Rear Adm. Patrick H. Brady, commander, SPAWAR, created an Affinity Champion program, which allows senior executives and flag officers to more directly support the growth and success of the command's diverse workforce. SSC Atlantic commanding officer, Capt. Mark Glover, and SSC Atlantic executive director, Chris Miller, serve as the SPAWAR Affinity Leadership Champions for the National Society of Black Engineers. They are building relationships with NSBE that will result in a better understanding of obstacles faced by African-American professionals, lead to greater recognition of SPAWAR employees through the affinity awards program, augment career development at SPAWAR and enhance recruitment.

SPAWAR has launched and maintained many initiatives that demonstrate community leadership, among them: SSC Pacific's partnership with NSBE and other organizations to provide college students with summer internships opportunities, and SSC Atlantic's volunteer mentoring of 34 robotics teams from various communities. SSC Atlantic also initiated and reactivated the NSBE Alumni Extension chapter in the Charleston, S.C. area.

## CORPORATE EDUCATION PARTNERSHIP

**Pacific Gas and Electric Company**



**Pacific Gas and Electric Company**

Pacific Gas and Electric Company (PG&E) and the University of California, Merced are jointly committed to the

vitality of California's San Joaquin Valley, one of the most economically deprived regions of the U.S., and to the success of its young people through science, technology, engineering and mathematics (STEM) education and outreach. UC Merced and its School of Engineering were established in 2005 specifically to give the valley an economic boost possible only through STEM higher education and its collateral impact. The engineering school provides a rigorous education to the most diverse student body of any research university.

The PG&E-UC Merced Corporate/Education Partnership complements the totality of programs that PG&E supports via grants, but with a specific focus on stimulating the interest of the diverse students of the San Joaquin Valley in engineering as a profession. PG&E's generous \$1-million grant over five years starting in 2007 has paid huge dividends. It has created opportunities for engineering students to make an impact on their communities as *students* and has provided a major boost to engineering student organizations, student recruiting and outreach, and experiential, hands-on education through service learning projects.

Among the many entities that have received direct funding from PG&E's gifts to the School of Engineering is UC Merced's NSBE chapter. It operates award-winning programs in tutoring and mentoring that have improved retention among its membership. The chapter received a community investment award in part from PG&E for its commitment to community outreach and its

retention program. Each year since 2008, UC Merced engineering students have attended national and/or regional NSBE conferences made possible by funding primarily from PG&E, the School of Engineering and UC Merced.



## DISTINGUISHED ENGINEER OF THE YEAR

**Cameron D. Dryden**

Business Area Manager Systems and Service  
*Northrop Grumman Adaptive Optics Associates*

Cameron Dryden leads a \$14- to \$16-million business area for Northrop Grumman AOA Xinetics, in Massachusetts. To say his resume is impressive is a big understatement. He has a B.S.E.E. degree from the Massachusetts Institute of Technology and 10 patents in the fields of high-speed digital signal transmission, Web-enabled document image processing, and bar code scanning and dimensioning. Several of his technical works have been published. The Advantage Checkout automated checkout system that he co-invented and developed for The Kroger Company received the 2010 Retail Innovation of the Year award from *Planet Retail* magazine. Products developed by his engineering teams have been featured in articles in *The Wall Street Journal*, *The Cincinnati Enquirer*, *Military & Aerospace Electronics* magazine, *Vision Systems Design* magazine, *Logistics Technology News* and other publications.

In addition to Dryden's technical accomplishments, he has worked for many years to improve opportunities for minority and disadvantaged young people. He was a Boy Scout leader for 10 years, leading Boston's most active Boy Scout group in the inner-city Mattapan neighborhood. He also assisted two local FIRST Robotics teams and coached Weston High School on its Fire-Fighting Home Robot Contest.

Dryden's parents were both social workers in New York City. His father attended the Bronx High School of Science and passed his love of science and engineering to Cameron and his siblings. Cameron met his wife, Theresa, when they were both students at MIT.

At Northrop Grumman AOA Xinetics, where he has been awarded eight patents, Dryden played a major role in the company's efforts to diversify into commercial markets. His team's Mass Scanning and Dimensioning System, designed for FedEx, was the first system to automatically dimension and scan bar codes on packages on mass flow conveyor belts.



## GRADUATE STUDENT OF THE YEAR

**Chinyere Mbachu**

Chemical Engineering Ph.D. Candidate  
*Tennessee Technological University*

Chinyere Mbachu, from Nigeria, has a 4.0 grade-point average in the chemical engineering Ph.D. program at Tennessee Technological University, in Cookeville, Tenn. She received her Bachelor of Technology degree from Federal University of

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## Passing the Golden Torch

Technology in Owerri, Nigeria, and graduated with university honors.

Mbachu had never heard of NSBE before she arrived at Tennessee Tech. While earning her master's degree in chemical engineering there, she joined the Society, which has become an important part of her life. NSBE helps fulfill her desire is to delve deeper into timely global engineering and environmental issues.

Mbachu has served NSBE both at the chapter level, as the vice president of the Tennessee Tech chapter, and nationally, as a volunteer scholarship reviewer and as a member of the Research and Development Subcommittee for Academic Excellence. She has also served as the secretary and president of the Chemical Engineering Graduate Research Students Association at Tennessee Tech.

Because of her excellent academic trajectory at Tennessee Tech, Mbachu has received a number of prestigious graduate fellowships, scholarships and awards for her graduate studies. She was also awarded a fellowship in 2011 to participate in the prestigious Singularity University Graduate Studies Summer Program on Exponential Technologies, Leadership, and Entrepreneurship, at NASA Ames Research Center.

Mbachu's goal is to use technology and engineering tools to create self-sustaining communities. Her doctoral project is on the modeling of novel fiber-packed reactors for the production of chemicals, including biodiesel and nanoparticles. She has presented more than 10 papers at scientific conferences hosted by organizations such as the American Institute of Chemical Engineers, the American Society of Engineering Education and the National Society of Black Engineers.



### DR. JANICE A. LUMPKIN EDUCATOR OF THE YEAR

**United States Military Academy – West Point, Department of Mathematical Sciences**

The West Point Department of Mathematical Sciences has a rich history of contributing to the education of cadets as confident problem solvers and of developing its faculty as effective teachers, leaders and researchers. The department is committed to maintaining a top undergraduate mathematics faculty and to playing a national role in the challenge to reform and enrich mathematics programs at the undergraduate level in ways that reflect the needs of our changing society. The department's unique mission requires that it maintain a faculty that is a blend of military and civilian professionals from all walks of life.

The Department of Mathematical Sciences has established an impressive track record of not only making diversity happen but also making diversity work! The department now has eight African-American and three Latino faculty members with Ph.D.s in mathematics, statistics or related fields. Two of these 11 Ph.D.s are part of the department's senior faculty, helping lead the

faculty team and making decisions about the long-term future of West Point.

The department has received funding awards from the National Science Foundation, to promote college algebra reform at Historically Black Colleges and Universities (HBCUs) and Tribal Colleges; the Mathematical Association of America, to host a Career Mentoring Workshop for Women; and the Army Research Office, to promote science, technology, engineering and mathematics (STEM) awareness among underrepresented minorities. In addition, with public and private funding, the department established the West Point Center for Leadership and Diversity in STEM (CLD-STEM), which is dedicated to attracting and retaining STEM talent for West Point, the Army and the nation. CLD-STEM's mission is to increase the recruitment and retention of underrepresented minority and disadvantaged youth populations in STEM.



### LIFETIME ACHIEVEMENT IN ACADEMIA

**James M. Rosser, Ph.D.**

President

*California State University, Los Angeles*

Dr. James M. Rosser has served as president of California State University, Los Angeles since 1979. He also holds the rank of professor of health care management and professor of biological sciences at the university. A native of East St. Louis, Ill., Dr. Rosser earned academic degrees in health education and microbiology from Southern Illinois University at Carbondale: a Ph.D. in 1969, an M.A. in 1963 and a B.A. in 1962.

For more than three decades, Dr. Rosser has championed increasing access to higher education among underserved communities, doing so in testimony before the U.S. Congress, in presentations at national meetings, while moderating a White House forum, in service on key commissions and by promoting programs that increase diversity in education and in the scientific community. He now serves on the California State University (CSU) Presidents' Council on Underserved Communities, the CSU-Public Schools Outreach Advisory Committee, the American Council for Education (ACE) Commission on Advancement of Racial and Ethnic Equity, and the American Association of State Colleges and Universities Committee on Economic and Work Force Development.

Dr. Rosser has earned many awards for his work to increase diversity, among them: the 2012 Reginald Wilson Diversity Leadership Award from ACE, the Frank W. Hale Jr. Diversity Leadership Award from the National Association of Diversity Officers in Higher Education, in 2008. In recognition of his outstanding leadership and contributions to the greater Los Angeles community, he was also presented with a 2008 Lifetime Achievement Award by The 100 Black Men of Los Angeles, Inc.

Dr. Rosser has influenced state and national science and technology policy as a member of several high-level committees and has served on the boards of many state and local community organizations.

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## Passing the Golden Torch

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#### LIFETIME ACHIEVEMENT IN GOVERNMENT

##### **Ray I. Fields**

Deputy Major Program Manager, PEO IWS, Advanced Technology Directorate

*Naval Sea Systems Command*

Ray Fields has worked as a civilian in the U.S. Department of Defense for more than 24 years. He is now the deputy major program manager in the Program Executive Office for Integrated Warfare Systems, Advanced Technology Directorate at the Naval Sea Systems Command, in Washington, D.C. In his role as the deputy program manager, he manages a highly complex, technical program that is of direct interest to the chief of Naval Operations.

Before reporting to the Advanced Technology Directorate, Fields served as the deputy program director of the Missile Defense Agency Sensors Directorate. He has held numerous engineering positions in the U.S. Navy's Naval Sea Systems and Naval Air Systems Commands.

Fields graduated from the University of Maryland, College Park with a Bachelor of Science degree in mechanical engineering and earned a Master of Science degree in manufacturing systems engineering from Boston University. He is a member of the Defense Acquisition Community, a graduate of the Advanced Program Management Course and is certified Defense Acquisition Workforce Improvement Act Level 3 in Program Management and Systems Engineering.

Fields has served his community in numerous capacities and has received many honors. He received the Alumni Service Award in 2005 from the University of Maryland, College Park for his untiring efforts on behalf of pre-college and undergraduate engineering students served by the Center for Minorities in Science and Engineering, and he was the 2012 recipient of the Navy Meritorious Civilian Service Award. Fields has volunteered with Big Brothers and Big Sisters of America, coordinated activities for Junior Achievement at his local elementary school and advised and mentored



# Passing the Golden Torch

junior high school students interested in science and engineering.



## PIONEER OF THE YEAR

### Toni K. Brown

Senior Manager, Assembly and Integration Technology  
Boeing Research and Technology  
Engineering, Operations, and Technology  
*The Boeing Company*

Toni Brown leads more than 80 Boeing engineering employees in Southern California and the Puget Sound area. She and her team are responsible for developing, demonstrating and implementing innovative automation, robot applications, integration technologies, and test processes and methods into production, to improve flow, cost, quality, safety, ergonomics and process stability. During her 30-year career, she has attained significant experience in manufacturing, engineering, affordability and management.

Brown joined Boeing in 1987 and has held a number of positions in Research & Technology and supporting the Commercial Aircraft Operations organizations. In these assignments, she had responsibilities for resource and capital budget administration; project management, methods and process improvements; supplier affordability initiatives in Japan and South Africa; and manufacturing work package analysis and transfer.

She has supported a variety of programs in Boeing's Research & Technology organization, such as the NASA Composite Wing Program, where she led the team that collected and analyzed cost data; the Manufacturing for Affordable Space Systems Air Force cooperative agreement; the Lean Transition of Emerging Industrial Capability Air Force cooperative agreement, where she served as deputy program manager studying the effectiveness of technology transition with industrial and academic organizations; and the Large Aircraft Infrared Countermeasures Modification program, where she served as composites project manager. Brown also completed

a rotational assignment in the Boeing Intellectual Property Management organization.

Brown, who was born in Ohio, is a graduate of Ohio University with a bachelor's degree in industrial and systems engineering. She participates in numerous church and community activities, including youth and women's ministries, and is a member of NSBE, the Society of Women Engineers and SAE International. She received the NSBE Celestial Torch Award "Aerospace Pioneer of the Year" in 2012.



## LIFETIME ACHIEVEMENT IN INDUSTRY

### Joseph B. Anderson Jr.

Chief Executive Officer and Chairman  
*TAG Holdings, LLC*

Joseph B. Anderson Jr. was born in Topeka, Kansas, and graduated from the United States Military Academy in 1965 with a Bachelor of Science degree in math and engineering. He subsequently received two master's degrees from the University of California, Los Angeles in 1972 and 1973 and attended the Army's Command and General Staff College in 1977. He also is a 1984 graduate of the Harvard Advanced Management Program.

During his military career, Anderson commanded troops as an infantry officer and served two tours of duty in Vietnam. He and the infantry platoon he commanded were subjects of the highly acclaimed documentary film "The Anderson Platoon," which has been shown in more than 20 countries and has won several prizes, including an Academy Award and an Emmy.

In 1977, Anderson was selected to be a White House Fellow and worked in this capacity as special assistant to Secretary of Commerce Juanita Kreps. He resigned his Army commission the next year.

Anderson began his business career with General Motors at Pontiac Motor Division, in 1979. Eleven years later, he was appointed general director, Body Hardware Business Unit, Inland Fisher Guide Division, General Motors Corporation,

a business unit with 7,000 employees and revenue of \$1 billion. In late 1992, he resigned from General Motors to become president and chief executive officer of Composite Energy Management Systems, Incorporated. In October 1994, he acquired a controlling interest in another privately held entity, Chivas Products Limited, which manufactured interior trim products and lighting assemblies principally for the automotive industry.

Anderson is now the majority owner, chairman and CEO of TAG Holdings, LLC, which owns several manufacturing-, service- and technology-related entities based in North America. These entities serve a variety of industries, including automotive, heavy equipment, aerospace, defense, and recreational vehicles.



## PRE-COLLEGE INITIATIVE DIRECTOR OF THE YEAR

### Sybil Y. Brown, Ph.D.

Teacher and Advisor  
*Northland High School*  
*Columbus, Ohio*

Dr. Sybil Brown has always been inspired by science. The intrigue began when she was a little girl who liked to take apart radios and tinker with the wires inside to see how the radios worked. Following in the footsteps of her brother, she pursued a bachelor's degree in electrical engineering at the University of Florida and worked as an electrical engineer in the aerospace and defense industry.

During this time, Dr. Brown began a tutoring program at her church then decided to "answer the call" to teach mathematics, especially to those who struggled most.

She left the lucrative field of engineering, enrolled in The Ohio State University, received a master's degree and eventually became the first black woman to receive a doctorate in mathematics education there. She has since been teaching at Northland High School in Columbus, Ohio.

When presented with the challenge of starting a STEM Club at Northland in 2006, she jumped at the idea and has persevered.

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## Passing the Golden Torch

The group was chartered as a NSBE Jr. chapter in 2007 and now has 60 to 70 members. As the chapter advisor, Dr. Brown has enjoyed working with Ohio State's Minority Engineering Program and the university's NSBE chapter, as well as participating in local Try-Math-A-Lon competitions hosted by NSBE's Central Ohio Alumni Extension Chapter. She has involved the club in the US FIRST Robotics competition and has forged partnerships with other entities, including Honda. As a result of her efforts, the Northland STEM Parents' Association was formed to support the club's activities.

Many former members of the club are now university students, and many have earned STEM scholarships, including at least 11 NSBE Batelle Scholars and seven Gates Millennium Scholars.



**Helen J. Howell,**  
Founder and  
Advisor

In 1997, the Martinsville and Henry County Chapter of the National Society of Black Engineers became the first NSBE Jr. chapter in Virginia. Educator Helen Howell was introduced to NSBE by her daughter, who learned about the Society while pursuing a chemical engineering degree at North Carolina A&T State University. Howell was looking for an avenue that would inspire African-American pre-college students to pursue degrees in math, science and engineering fields. After being introduced to the organization, she took seven Martinsville students to NSBE's Annual Convention in Kansas City, Mo., in 1998. After the convention, with help from NSBE's national headquarters, she organized the NSBE Jr. chapter.

The Martinsville and Henry County NSBE Jr. Chapter has grown to 150 members. The main focus of the group is to motivate students to improve their grade point averages and take more challenging courses.

Students are on a merit point system. To attend the Annual Convention, they must earn 600 points

by completing community service, serving in leadership roles, keeping their GPA above 3.0 and attending cultural events, camps and workshops. The chapter counsels students on course selection, steering them toward advanced placement programs and the state's Governor's Schools. Also, the chapter's partner organizations provide math, science, technology and engineering activities for the students.

The Martinsville and Henry County chapter has been awarded more than \$100,000 in grants for program development from the Virginia State Department of Education and the National Science Foundation, and has received numerous regional and national awards. Most important, the chapter has a 100 percent high school graduation rate, and all of its students either attend college or join the military.



### PRE-COLLEGE INITIATIVE STUDENT OF THE YEAR (MALE)

**Darius R. Simington**  
*Martinsville and Henry  
County NSBE Jr. Chapter  
Martinsville, Va.*

Darius Rodgers Simington has been a member of the National Society of Black Engineers since his 7th grade year. He joined NSBE Jr. because he had a passion for space exploration and wanted to work for NASA. As his involvement in NSBE progressed, he became increasingly more aware of the various aspects of engineering and developed a keen interest in computer science.

Simington has held several leadership positions in the Martinsville/Henry County Chapter of NSBE Jr., including co-president and vice president. He was named Mr. NSBE Jr. for Region II at NSBE's 2010 Fall Regional Conference, in Pittsburgh, Pa. This experience gave him the confidence to believe that, "I can accomplish anything I set out to do if I work hard and never give up."

Attending NSBE Pre-College Initiative programs at Virginia Tech and North Carolina A&T State University played a vital role in helping Simington understand the importance of teamwork, critical thinking and problem-solving. During the

summer of 2009, he attended the Aviation Career Education Academy in Oklahoma City, Okla. This program, sponsored by the Organization of Black Airline Pilots, opened his eyes to the numerous career opportunities that exist in aviation.

Simington's community service has been extensive. At Martinsville High School, he is a member of Communities Helping to Improve Local Lives. He is an active member of Fayette Street Christian Church in Martinsville and is participating in the Martinsville/Henry County Chamber of Commerce Leadership program.

A scholar-athlete, Simington earned a 3.7 grade-point average for the 2011–2012 academic year and was Piedmont District First Team Defensive Lineman, All Region Defensive Lineman and captain of the Martinsville High School varsity football team for the 2012 season.



### PRE-COLLEGE INITIATIVE STUDENT OF THE YEAR (FEMALE)

**Joi Stevens**  
*San Antonio City Wide  
NSBE Jr. Chapter  
San Antonio, Texas*

Joi Stevens is a senior at Saint Mary's Hall College Preparatory School in San Antonio, Texas. She is best known for her bubbly smile and compassion towards others.

Stevens is the Regional Junior Executive Board chair for NSBE's Region V and is programs chair for the San Antonio City Wide NSBE Jr. Chapter. She has held leadership positions since joining the chapter in 2009 and has also participated in many NSBE Jr. programs and competitions.

Stevens completed five years with the University of Texas Pre-Freshman Engineering Program and concluded by earning a scholarship from CPS Energy to take college calculus at the university. She also participated in the prestigious and highly competitive Voelcker Biomedical Research Academy at the University of Texas Health Science Center, doing graduate-level research for three years in the Department of Microbiology/Immunology. In addition, she participated in the American

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## Passing the Golden Torch

Chemical Society Project SEED Program. Last summer, she interned with Rackspace Hosting. She also won awards from Time Warner Cable Company and Rackspace Hosting for her participation in Women in Science Programs.

Stevens has been named a "philanthroteen" as the founder and chief executive officer of Joi Bears, a nonprofit organization with the motto "Preserving the Spirit of Children through a Global Outreach." A self-motivator and community youth activist, Stevens focuses on topics important to many young girls and women, among them: combating physical and mental abuse, increasing political participation, increasing participation in STEM and preventing teen pregnancy. She also advocates about global issues such as underage marriage and inadequate health care.

Stevens plans to major in chemical engineering and biochemical science at Davidson College, in North Carolina.



### OUTSTANDING WOMAN IN TECHNOLOGY

#### Jamesha J. Parks

Systems Engineer and System Safety Engineer  
*Northrop Grumman Aerospace Systems*

Jamesha Parks supports the United Kingdom Whole Life Support and United Kingdom Modification Programs, in Melbourne, Fla. As a system safety engineer, she analyzes safety impacts of hardware modifications to the E-3D platform. She performs hazard analyses and maintains hazard information in the sector hazard tracking database. She has also supported the Joint Surveillance Target Attack Radar System (Joint STARS) Total System Support Responsibility (TSSR) Program as a systems engineer and system safety engineer.

Before joining the Systems Engineering and Specialty Engineering departments in Melbourne, Parks worked at the Northrop Grumman St. Augustine Manufacturing Center as an industrial engineer, where she coordinated with all programs on site to report on efficiencies, validate manpower and ensure adherence to schedules

for the Paint, Seat and Strip shops on site. She also provided support to the Safety and Health Department as a member of the Injury Analysis Team. While in St. Augustine, she worked with an ergonomics consultant to develop an Ergonomics Awareness Course for site employees.

Parks earned her bachelor's degree in industrial and systems engineering from Auburn University and immediately went on to earn her master's degree in the same field, with a focus on occupational safety and ergonomics.

She now serves as an officer in the African American Task Group and Women in Northrop Grumman Employee Resource Groups for the Melbourne site of Northrop Grumman. Outside of the company, she volunteers for various science, technology, engineering and math-related events coordinated by the Society of Women Engineers. She also serves as a parent volunteer at her children's elementary school.

Parks is a Northrop Grumman Certified Green Belt.



### MIKE SHINN DISTINGUISHED MEMBER OF THE YEAR (FEMALE)

#### Sarah Brown

Ph.D. Student, Electrical Engineering  
*Northeastern University*

Sarah Brown is a social impact-oriented, aspiring engineering educator-researcher. In May 2011, she completed her undergraduate studies in electrical engineering with a minor in biomedical engineering at Northeastern University. During her undergraduate career, she developed a passion for solving problems into a desire to conduct research at the intersection of signal processing and machine learning.

Northeastern's signature cooperative education program, which includes three, six-month work experiences, played an instrumental role in developing her career. Brown excelled in the work environment, demonstrating her ability to immediately implement classroom knowledge in a variety of technically challenging environments. For her valuable technical contributions and

professionalism, she was recognized as the 2011 College of Engineering Outstanding Co-op Award recipient.

In NSBE, Brown has served as a chapter leader at Northeastern's Black Engineering Student Society and two terms as the national Technical OutReach Community Help (T.O.R.C.H.) chair. Under her leadership, her chapter taught weekly courses to adults and youth at the T.O.R.C.H. Center the chapter established in a local community computer center, and was recognized as the National T.O.R.C.H. Chapter of the Year in each of the first two years of the program. Later, as NSBE's national T.O.R.C.H. chair, Brown led the successful effort to document 5,000 hours of service by program participants in 2011–2012 — a greater than 10-fold increase — and to increase the number of "A Walk for Education" sites to nearly 30 from 13 in her two terms.

Brown is now a second-year Ph.D student in electrical engineering at Northeastern, with a National Science Foundation Graduate Research Fellowship. She hopes her current work will make future impacts on the diagnosis, treatment planning and monitoring of psychopathologies including depression and post-traumatic stress disorder.



### MIKE SHINN DISTINGUISHED MEMBER OF THE YEAR (MALE)

#### James Lindsey

Master's Degree Student, Structural Engineering  
*University of Arkansas*

James Lindsey has always had a knack for using his imagination to design extraordinary things and for building things he had dreamt of designing. Today, as a graduate student studying structural engineering, he still looks forward to realizing his dreams and imaginings, and achieving goals he has set for himself along the road. These goals include earning his master's degree, working for a professional civil engineer, attaining his Professional Engineer license and starting his own structural engineering firm.

Lindsey earned his bachelor's degree in civil engineering at North Carolina A&T State



## Passing the Golden Torch

University. During the summer of 2009, he received an internship with Oak Ridge National Laboratory, where he conducted research on building design materials best suited to saving energy in heating and ventilation. During the summers of 2010 and 2011, he interned with the U.S. Forest Service in Rhinelander and Laona, Wis., assisting with bridge, culvert and road inspections. Lindsey graduated from A&T with a GPA of 3.46 on a 4.0 scale.

For the 2011–2012 school year, he served as the president of the NSBE chapter at A&T. Earlier, he served as the chapter's treasurer. During his term as president, the chapter won NSBE's 2012 Mission Competition, for having the most Summer Engineering Experience for Kids (SEEK) mentors, and also received A&T's Student Organization of the Year Award. During his presidency, he also started the first NSBE Week and Black History & Leadership Month, and ensured that the chapter members' passion for NSBE was ignited at all times by implementing the NSBE Retention Program, other interactive programs and exciting social events.

Lindsey is an active member of NSBE at the University of Arkansas.



### ALUMNI EXTENSION MEMBER OF THE YEAR

#### Sheila Alves

NSBE Richmond, Virginia  
Alumni Chapter  
Internal Audit Director  
*Virginia Information  
Technologies Agency*

Sheila Alves has more than 15 years of experience in internal and external audit and computer programming in the banking and manufacturing industries. At the Virginia Information Technologies Agency (VITA), she is charged with examining and evaluating the policies, procedures and systems to ensure reliability and integrity of information; compliance with policies, plans, laws and regulations; the safeguarding of assets; and the economical and efficient use of resources.

Before joining VITA, Alves was a senior information technology examiner with the Richmond

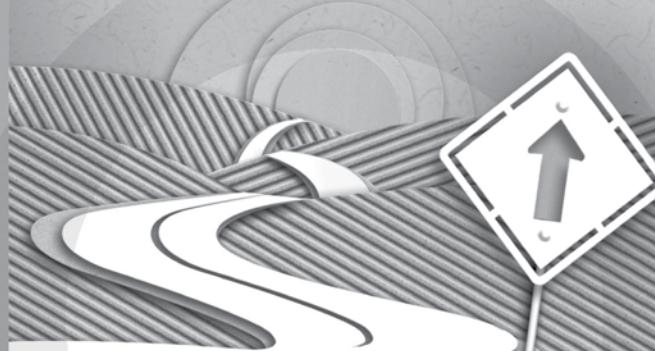
Federal Reserve Bank and was responsible for performing IT examinations in the Fed's Fifth District, which includes Maryland, Washington, D.C., Virginia, North Carolina, South Carolina and most of West Virginia. At another previous employer, MeadWestvaco, she was the information technology audit supervisor. In this position, she performed IT and operational audits and project management reviews, and supervised and trained IT auditors. During her employment with Jefferson National Bank, which merged with Wachovia, she held the position of assistant vice president and internal audit officer, responsible for performing project management reviews; information technology audits, which included data center; ATM; financial and mortgage applications; bank operations and participation on the merger team for branch operations.

Alves has supervised and trained IT auditors and

has performed IT audits in the U.S. and abroad. She has also worked as a computer programmer, after receiving her bachelor's degree in computer science from the School of Engineering at California Polytechnic State University, San Luis Obispo, Calif. Alves completed Banking School at the University of North Carolina at Chapel Hill. She is a Certified Information Systems Auditor and Certified Internal Auditor and is a member of the Institute of Internal Auditors and the Information System Audit and Controls Association. Alves chairs the Richmond Joint Engineer Council and is president of the Richmond, Virginia Alumni Chapter of the National Society of Black Engineers (NSBE), a position which she has held for two years.

Alves is a native Californian who enjoys traveling, solving puzzles and mentoring college students. ■

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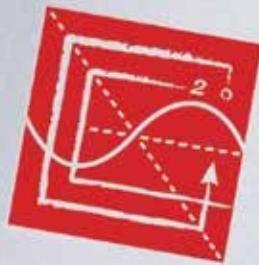
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[ncees.org/CBT](http://ncees.org/CBT)



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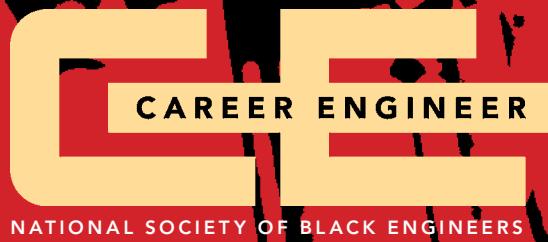
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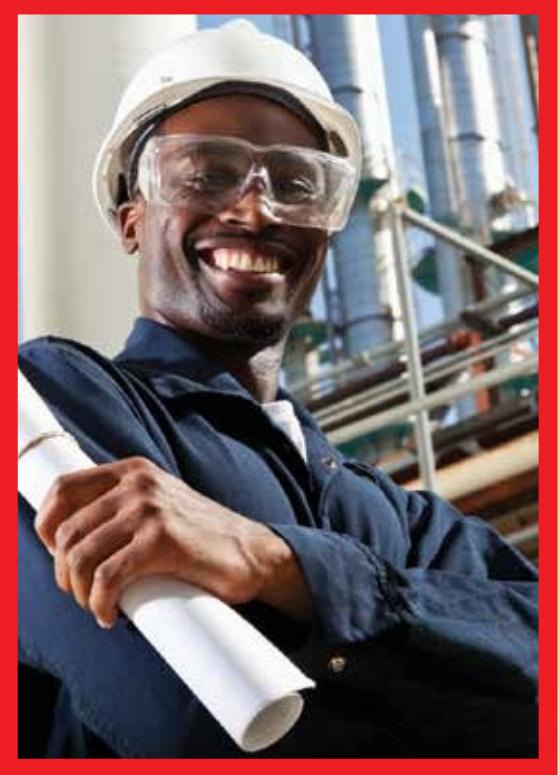
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CONVENTION 2013



# DRILLING FOR TALENT



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## ELEVATE YOUR CAREER

By Darnell Fisher, NSBE National Alumni Extension Chair

Greetings, NSBE Professionals.

**O**n behalf of the National and Regional Alumni Extension (AE) leadership, I welcome you to historic Indianapolis, as we host our 39th Annual Convention. Just 60 miles away, in 1971, two Purdue undergraduate students, Edward Barnette (now deceased) and Fred Cooper, approached the dean of engineering at Purdue University with the concept of starting the Black Society of Engineers (BSE). They wanted to establish a student organization to help improve the recruitment and retention of black engineering students at Purdue. In the late 1960s, a devastating 80 percent of the black freshmen entering the engineering program dropped out. The dean agreed to the idea and assigned the only black faculty member on staff, Arthur J. Bond, as advisor.

Barnett served as the first president of the BSE. The fledgling group gained momentum in 1974, with the direction and encouragement of Bond and the active participation of the young men whose destiny was to become the founders of NSBE. Now known as the "Chicago Six," these men were Edward A. Coleman, Anthony Harris, Brian Harris, Stanley L. Kirtley, John W. Logan Jr., and George A. Smith. Kirtley, Logan and Arthur Bond are now deceased.

This week, as you follow the Technical Professionals Conference (TPC) track, we continue to honor this visionary past and do our part in driving our technical and global communities forward. Your current success and drive to improve upon your career are testaments to the work of the Chicago Six and their hopes for equality for minorities in predominantly white science, technology, engineering and math industries. This conference is the culmination of a yearlong effort of the National Alumni Executive Board (AEB) to provide you, our members, with the tools you requested to make your NSBE experience worthwhile. Experiences such as executive mentoring, chapter development workshops and professional certification courses have all been

enhanced and extended from previous Alumni-hosted conferences – such as the AE Summit and the Professional Development Conference – in an effort to create a culture in which we, as professionals, will continue to learn and push each other to the next level of corporate and community leadership.

I implore you to take advantage of all that this TPC has to offer. Whether you are fresh out of college, an established expert in your field or the CEO of your own company, TPC Chair Nosa Egharevba and his team have planned a conference that will fit your needs as a professional. I hope your experiences here in Indianapolis will elevate your career and inspire you to attend the AE Summit (May 23–27 in Puerto Rico) and the second Joint Professional Development Conference (Fall 2013), as the AEB works on *Elevating NSBE's Professional Brand* and driving NSBE forward!

Remember, YOU ARE THE MISSION!! ■

*"I implore you to take advantage of all that this (Technical Professionals Conference) has to offer."*

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# Star Trek Inspires NSBE Space Project

By Christianna Taylor, Ph.D., Tricorder Project Lead, NSBE Space Special Interest Group



At left NSBE Tricorder Team members inspect component hardware.

longtime supporter of the Space SIG, Walker has spoken at the group's 2006 African Americans in Space mini-conference and 2010 Aerospace Systems Conference, and hosted student outreach at the AMAN Center during the 2012 Aerospace Systems Conference.

The NSBE tricorders will play a role in the Space SIG's larger project, which is a return to the Mars Desert Research Station (MDRS) in the Utah desert. The Space SIG expects to send a six-person NSBE crew on a two-week expedition to the station in 2014 or 2015, using the tricorders as one of the science experiments. The

tricorders can be used to record environmental data as the crew performs Extra Vehicular Activities (EVAs) from the Mars habitat. The GPS signals in the tricorder can be used to cache tag samples and locate the science experiments from previous EVAs. In addition, the Space SIG hopes to create standard environmental monitoring protocols that provide better prediction capabilities for science field experiments performed during the expedition.

Data from the tricorders can be transmitted in real time to NSBE collegiate and Jr. chapters around the world



Above Conducting electrical testing of tricorder sensors

**N**othing is more iconic than the sight of Lt. Cmdr. Geordi La Forge of *Star Trek: The Next Generation* operating a tricorder during surface missions. Whether he was determining oxygen content, analyzing wind patterns or detecting biological life, the chief engineer of the starship Enterprise invariably relied upon the ever-present tricorder as he discovered new planets and civilizations throughout the galaxy.

The NSBE Space Special Interest Group (SIG) responded to the charm of the tricorder when they took on their newest project: creating remote sensor handheld devices for environmental measurements. This project was the brainchild of the Space SIG 2012 Leadership Retreat held in Las Vegas, Nev., where the Space SIG participants expressed a desire to get more hands-on building experience. Tricorders were suggested from the open source design space called the Tricorder Project, and the project was funded with revenue generated by the NSBE Aerospace Systems Conference. The design is based upon another environmental sensor suite developed by Peter Jansen, Ph.D. and packaged in his tricorder Mark 2 design. This design combines 12 different electromagnetic, atmospheric and spatial sensors to give a complete environmental picture.

Space SIG members are building six tricorders in the Los Angeles area at the AMAN International Center. The AMAN Center is operated by Hal Walker, a scientist and African American who led the Apollo 11 laser range-finding experiment to measure the distance from the Earth to the Moon. His historic experiment is now on permanent exhibit at the Smithsonian National Museum of American History. A

who are remotely monitoring the expedition, allowing them to conduct analyses similar to those of science teams on Earth during space missions. Participating chapters may even be able to use the sensor data to recommend mission direction to the research station crew for subsequent EVAs, bringing NSBE members even closer to the space experience.

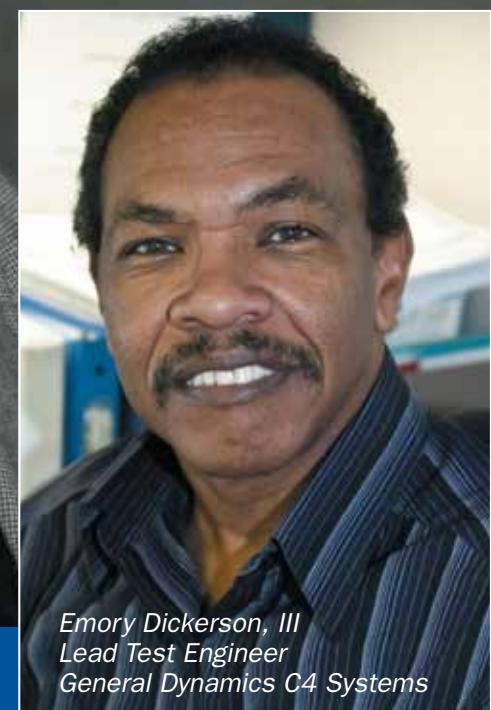
Several other experiments are also under development for the NSBE MDRS expedition, including robotic teleoperations, habitable volume assessments, and human factors evaluations. Additional experiment proposals may be submitted to the Space SIG. ■



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# PETROLEUM ENGINEERING DIGS DEEP



## FOR TALENT

By Cindy Atoji

**I**t's been said that oil makes the world go 'round. More than 300 products are derived from petroleum, from gasoline to basketballs, trash bags to electric blankets. The petroleum industry is one of the largest and most critical in the U.S. today, and the companies involved depend on many types of professionals, among them, skilled technicians, operators, finance professionals and, perhaps most important, petroleum engineers.

"As global energy needs develop and change, so does the demand for innovative, sustainable solutions to power tomorrow," says Warner Williams, vice president of Chevron Corporation's Gulf of Mexico Business Unit. "Petroleum engineering is the opportunity to contribute to the welfare of people everywhere; a chance to utilize the benefits of technology and a conduit to allow you to travel the world, making lifelong connections."

From remote offshore platforms in the Atlantic Ocean to the rugged North Slope of Alaska, petroleum engineers are engaged in energy resources development and production. These

tasks can include anything from exploring oil fields for production to optimizing drilling and petroleum-producing operations. Petroleum engineers such as NSBE member Uduak Ntuk, 34, a petroleum engineer with the City of Long Beach, undertake complex jobs related to new well development, alternative repair strategies for failed or broken wells, and ways to maximize oil and gas recovery. In the eight years that Ntuk has been in the industry, he's seen an expansion to a more interdisciplinary approach that involves geologists, information technology technicians and systems engineers, as well as

*CONTINUED ON PAGE 96*

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## Petroleum Engineering Digs Deep for Talent

CONTINUED FROM PAGE 94

mechanical, chemical and electrical engineers.

"The 'digital oil field of the future' is on its way, an automation of the oil fields that will use fuzzy logic, artificial intelligence and remote control to increase efficiency and reduce risk," says Ntuk.

### JOB PLENTIFUL, WAGES HIGH

The oil and gas industries in the U.S. have seen vast fluctuations in hiring, triggered by oil gluts and shortages and the resulting price changes. But the oil boom is on again, and this time it shows no sign of trickling away. The demand for oil worldwide is strong and projected to rise far into the future. And new hydraulic fracturing and horizontal drilling techniques are addressing that demand by tapping deep reserves that were previously untouchable. Petroleum engineers are expected to see job growth of 17 percent until 2020, according to the U.S. Occupational Outlook Handbook, and a report from NSBE's Membership Department shows the number of NSBE members in the field is steadily increasing. Only 24



*"Unlike some engineering disciplines, where hiring is actually down and wages are flat, petroleum engineers are rock stars."*

— Carles Miller, Director, NSBE Energy Special Interest Group

"I enjoy tackling real-world problems and delivering smart energy solutions to help power and improve people's lives," says Jackson.

### PROMOTING SAFETY, SUSTAINABILITY

Petroleum engineers are constantly working not only to develop new systems that extract a higher percentage of resources but also to improve the sustainability and safety of the process. Oil spills can be deadly, tremendously damaging to the environment and cast a negative light on the industry, but

petroleum engineering may generate the capital needed to transform the world economy to one supported by clean energy. Petroleum companies such as Chevron are also promoting alternative energy by installing wind farms on oil field sites and applying solar electric and stationary fuel technologies.

"The world certainly needs energy to survive, and petroleum engineers are working towards building an eco-friendly environment," says NSBE member Juliet George, 18, a Nigerian student at the Colorado School of Mines.

Oluwadamilade Adebola Awolaja, 18, another NSBE member and future petroleum engineer at the Colorado School of Mines, says she chose her field because she hopes to bring an innovative touch to the way drilling is done in her native Nigeria.

Petroleum engineering is a demanding field, requiring highly technical coursework in petrophysics, drilling and production, reservoir engineering, well design and logging, as well as strong

interpersonal skills. Ms. George admits she is preparing for a difficult and somewhat risky field that will present challenges such as travel to remote areas of the world to visit drilling sites or help establish offshore platforms.

What is the future of this diverse and ever-evolving industry? Ray Dempsey Jr., an engineering executive and 23-year veteran of BP, the British multinational oil and gas company, says growth of the world population and world economy will drive up energy demand, and that the challenge of the future is to find a way to meet that need safely and responsibly.

"This translates into a huge opportunity for using extraordinary innovation as we use energy every day to make our lives more productive and richer," says Dempsey. "We need engineers and others who are willing to step forward and lead." ■

*Cindy Atoji is a Boston-based blogger and editor who specializes in diversity issues and technology writing.*



*"I enjoy tackling real-world problems and delivering smart energy solutions to help power and improve people's lives."* — NSBE member Matt Jackson, Penn State University

members had petroleum engineering bachelor's degrees or were working toward them in 2006–07. That was .1 percent of the total membership. Last year, the number had grown to 332, or 1.2 percent of the members.

"Unlike some engineering disciplines, where hiring is actually down and wages are flat, petroleum engineers are rock stars," says Carles Miller, who is director of the Energy Special Interest Group of NSBE's Alumni Extension, and a business development manager of the energy group at Burns & McDonnell Engineering Company. That rock star status shows up in average petroleum engineering salaries, which start at \$97,900 and rise to \$155,000 by mid-career, according to the salary data website PayScale.

Most entry-level petroleum engineers begin their career path by working for international oil companies such as Chevron, BP, Shell or Exxon Mobil Corporation, gaining training and exposure on integrated multidisciplinary teams then moving into middle management or team leadership. Others find opportunities with small, independent operators; specialized companies that provide services or supplies for major producers; or consulting firms in oil and gas. NSBE member Matt Jackson, 24, a senior at Penn State, plans to work for National Oilwell Varco in Oklahoma City, stationed with the downhole solutions group, where he'll service the industry with tools for drilling, well-intervention and other support equipment.



Ray Dempsey Jr.



Warner Williams



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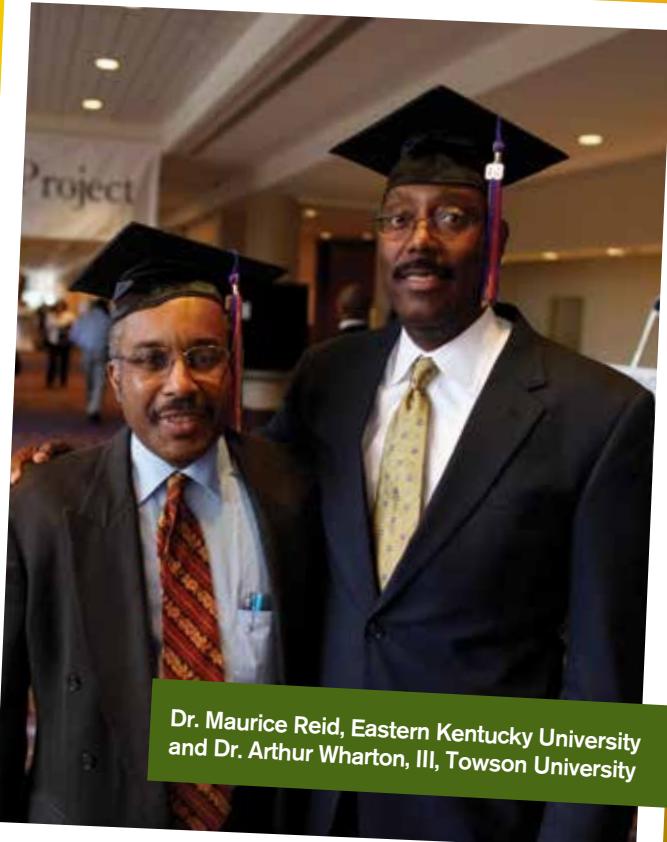
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Assistant Professor of Management,  
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# Celebrating Academic Excellence!

Congratulations to the *crème de la crème* of NSBE's collegiate, graduate school and Pre-College Initiative members: our Academic Pyramid of Excellence (APEX) honorees! The APEX program recognizes outstanding academic achievement on the chapter, regional and national levels. The Pyramid consists of high achievers on three levels, based on cumulative grade-point averages: Honors, 3.6+; Torchbearer, 3.2–3.59, and Excel, 3.0–3.19. Since 2011, NSBE's APEX membership has exploded by nearly threefold. That's what we call "accomplishing the mission"!

## APEX HONOREES\*

\*Listing is as of Jan. 25, 2013

### HONORS

#### REGION I

Afolawemi Afolabi  
Eyonganyo Agbortogo  
Sarah Akinlabi  
Mohammed Akinlolu  
Behailu Aklilu  
Simon Wineloya Alangde  
Yissel Arias  
Emmanuel Awa  
Kiara Bailey  
Liam Bartlett  
Margo Batie  
Amir Begovic  
Keya Bhowmik  
Yvesna Blaise  
Monica Blanco  
Shadae Boakye-Yiadom  
Kelsey Bowen  
Dario Boyce  
Matthew Breland  
Sarah Brown  
Johnathan Calderon  
Raul Centeno Pedraza  
Joronia Chery  
Toure Cort  
Tamar Daniel  
Ninrat Datiri  
Andrew De Los Santos  
Jeanyhwh Desulme  
Mamadou Dianko  
Ogheneruona Dibie  
Orrett Douglas-Prawl  
Tiffanie Edwards  
Erelu-Ejide Elegba  
Ike Enwere  
Amber Ferrell  
Kiana Forti  
Donya Frank  
Chyanne Garcia  
Dwyane George  
Christopher Graves

Alec Harris

Ayah Hassan

Ronald Heisser

Joan Ikinya

Cory Ilo

Cameron Jackson

Logan Jackson

Jenny Jing

Keith Joseph

Jennifer Kwong

Jeteya Lawrence

Jason Lee

Alyssa Ling

Jamonte Little

Makete Maina

Sunanda Makavana

Phoebe Manning

Sarah Mathew

Sierra Messina-Yauchzy

Bridget Mudiaga-Ojemu

Hassan Mughal

Alphonse Mugisha

Julian Naing

Diane Nelson

Dolu Obatusin

Nhaemezue Obi-Eyisi

Adetona Ogunfowora

Andrew Ojo

Nkemakonam Okoye

Ismail Ouedraogo

Daniella Patrick

Dajsha Perrin

Mariah Pierce

Jean Pierre

Hema Rampersaud

Adrian Robin

Dleer Saber

Tyrell Serrano

Neel Shah

Asif Siddique

Ralph Sy

Courtney Tatum

Jacqueline Thompson

Jonathan Thompson

Korey Tillman

Stanley Toussaint

Anastasia Turner

Emele Uka

Aniekeme Umoh

Shonnan Usman

Alexis Walker

Michele Waters

Andrew Watson

Justin White

Asher Williams

William Burrus

David Carmichael

Danielle Carter

Jarvis Carter

Tajuana Carter

Nia Christian

Allison Collier

Jamilet Cordon

Christopher Cork

Bria Crawford

Shawn Daniel

Joseph Daniels

Lindeon Davis

Curtis Day

Kiana Dillard

Simeon Dillard

Victoria Dillard

Dipo Dina

Daniel Douglas

Ethan Drake

Keir Durham

Itohan Ebhojiaye

Christopher Ejiofor

Christian Emiyah

Ifeanyi Emole

Candace Fersner

Trevor Fluellen

Maya Ford

Joy Frazier

Sheldon Fulton

Oluwatoni Fuwape

Deondre Glover

Kelvin Goodman

Kirashae Graham

Cierra Grant

Patrick Grant

Erika Gravely

Megan Gravley

Morgan Gravley

Joseph Gray

Jann Grovogui

Jordan Hairston

Bria Hairston

#### REGION II

Tasha Adams  
Lanre Adefolaju  
Janet Adelola  
Emmanuel Ademuwagun  
Yusuf Adeshina  
Oluwakonyinsola Adesoye  
Olaelekan Adewuyi  
Fatimah Adisa  
Andrews Afful  
Moses Ajemigite  
Gabriel Ajibade  
Desayo Ajisegiri  
Amos Ajo  
Joseph Akoun  
Monica Allen  
Paola Argueta  
Abraham Arthur  
Kristen Bailey  
Theodosia Bejjital  
Behailu Bekera  
Leander Berry  
Carlos Biao  
Reshona Blount  
Felicia Branch  
Evan Brooks  
Candice Brown  
Jazmine Brown  
Michael Brown  
Monica Burnett

Kamaria Hardy	Toluwalope Oyelowo	Gregory Bailey	Danessa Jerome
Joseph Harley	Michael Page	Joshua Baxter	Brandon Johnson
Caila Holley	Myela Paige	Jazmin Bennett	Henderson Johnson
Vernon Holman	Ciara Parrott	William Berry	Kelvin Johnson
Chimereze Ibecheozor	Toni Patterson	Patrick Blaise	Ophelia Johnson
Gbolahan Idowu	Dahlia Pettie	Justin Bobo	Oloruntomi Joledo
Segun Isaac	Danielle Pettis	Khadijah Boles	Dominique Jonas
Darian James	Taylor Phillips	Joshua Boswell	Danielle Jones
Jamille Jamison	Kiarra Price	Iman Bouryou	Hossein Karimi Davijani
Jirreabi Jennings	Cassandra Pritchett	Joshua Brady	Aman Khatri
Denzel John	Chelsey Ransom	Richard Brinkley	Elliot King
Devin Johnson	Anthonia Raphael-Chieke	Kayla Broughton	Anjolaoluwa Lanre-Ladenegan
Evan Johnson	Semaj Rashad	Alex Brown	Ratessiea Lett
Damika Jones	Kristopher Rawls	Brittany Brown	Danielle Lewis
Jahnelle Jordan	Christopher Rice	DeVaughn Brown	Crystal Lipscomb
Ifeanyi Kalu	Harold Rickenbacker	Charlecia Brownlee	Alex Lochard
Oluwanke Kayode	Malachi Robinson	James Bryant	Charles Lowd
Hope Kenya	Tanisha Ross	Melanie Cabezas	Jeremy Magruder
Shannon Kirkland	Bryan Rucker	Avery Carmichael	Amin Mahdieh Najafabadi
Omoniyi Lamidi	James Runge	Brandy Carmichael	Joshua Mann
Attiyah Lanier	Mohamed Samoura	Calvin Carter	Luther Martin
Marisa Lara	Jeremy Shine	Robin Clark	DaShawn Matias
Dolce Lawless	Alfred Shoetan	Danielle Coachman	Bria Mattox
Sidney Lisanza	Darius Simington	Alexis Coates	Armand Mayo
Jasmyn Logan	Ray Sims	Ashlee Colbert	Chinyere Mbachu
Jamae Lucas	Tahirah Smith	Keisha Cook	Austin McNair
Crepin Mahop	Amidat Sonekan	Brittney Crockett	Andriana Mickens
Mohammed Marso	Angel Spigner	Christopher Crosby	Mark Miller
Devante Martin	Isaiah Stackleather	Brianna Daniels	Alex Montano
Alexius Martin	Jabari Stegall	Angela Davis	Kadeem Morrison
Ebony Martin	Bethel Tarekegne	Ashley Davis	Jamila Moses
Marnie Martin	Nyomi Tarpley	Tiffany Davis	Dennis Norfleet
Torrence Marunda	Digwuan Thompson	Jaylan Dawson	Francisco Nunez
Jonathan Maye-Hobbs	Casey Tompkins-Rhoades	S'Dravious DeVeaux	Adesola Oje
Maya McAllister	Abraham Umo	Christina Dixon	Olugbenga Ojo
Carlos McClaney	Arianny Valdez	Marci Early	Judah Okeleye
Disa Mhembere	Michelle Victor	Christine Edwards	Stephen Okine
Taylor Million	David Wagura	Irucka Embry	Rasheed Oliver
Joe Mitchell	Arielle Waller	Ifegwu Eziyi	Waheed Oyekanmi
Noemi Moreno Gonzalez	Kiana Warren	Jared Feldman	Parth Patel
Marcelis Muriel	Megan Warren	Mitchell Gant	LaDonna Perkins
Alexander Myrie	Kamili Wiley	Brandon Garrett	Damilola Phillips
Nicholas Neal	Niko Wiley	John Giles	Austin Price
Ceisl Neita	Jared Wilkins	Taniqua Gillyard	Kevin Prival
Brandon Nelson	Jocelyn Wilkins	Olivia Gooden	Carissa Redmon
Jenine Nembhard	Isreal Williams	Ty'rell Graham	Daniel Robinson
Max Jordan Nguemeni	Phillip Williams	Jonathan Guandique	Jasmine Roddye
Cevan Noell	Tiffany Williams	Altony Hall	Jessica Romeus
Henry Norris	Whitney Wilson	Shawn Harris	Asher Sampong
Adesuwa Nosakhare	Gabrielle Winkey	Allante Harrison	Collins herve Simeu kodjou
Emmanuel Nwokocha	Serita Young	Brian Hayes	Kelvin Smith
Babatunde Odukoya		Daniel Henry	Jamesa Stokes
Krystal Okehie		Ryan Herbin	Brandon Tripp
John Okenwa		Jada Herrington	Uduak Udongwo
Chukwuemeka Okolie		Justin Hicks	Fernando Villafuerte
Stephanie Okorafor		Shannon Hines	DeAnna Walker
Adegoke Olubusi		Thomas Holman	Amanda West
Oladotun Opasina		Britney Hudson	Andrea Williams
Andrey Orichi-Socana		Brandon Hunter	Khari Williams
Benjamin Osoba		Yazmin Ince	Reggie Wootson
Marna Owens		Ki'Undra Jackson	Yolanda Youngblood
Olumuyiwa Oyeleye		Ruben Jean	Christina Zeigler

CONTINUED ON PAGE 104

### REGION III

Oluseye Adeyemi  
Amanda Alexander  
Jepheth Altidor  
Preejith Ambuken  
Bhanu Naga V Angirekula  
Dominique Appling  
Ivens Applrys  
Jeremy Asomaning  
Adeniyi Babalola



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## Celebrating Academic Excellence!

### REGION IV

Bernard Abayowa  
Dajah Abdiel  
Tayloria Adams  
Oluwasegun Adegun  
Ramesh Adhikari  
Soonen Ahua  
Olumayowa Aladeojobe  
Oluwaseun Alajo  
Eyosias Ashenafi  
Noble Asiedu  
Tobias Atimnedi  
Erin Barry  
Yusuf Bell  
Jacob Benford  
Wudasse Berke  
Winston Black  
Nia Booker  
Kiana Bosley  
Lane Boyd  
Karl Bratt  
AnnMarie Brown  
Avery Brown  
Lauren Brownridge  
William Browns  
Brian Carmon  
Raoul Chinang  
Andy Daniel  
Darrien Dartis  
Jillian Deas  
Quodus Deen  
Julian Dickens  
Ouboti Djaneye-Boundjou  
Sharna-Kay Dobney  
Donel Edward  
Ikponmwosa Egharevba  
Ugwem Eneyo  
Ellen Essien  
Universe Ewunetie  
Stephen Felix  
Sade Foster  
Kaela Gerald  
Alondra Harris  
Nathan Harris  
Jacquelynn Herron  
Brianna Hibbler  
Bryce Hibbler  
Alyssa Hiell  
Aleah Holley  
Angela Holley  
Ibrahim Huthman  
Abiodun Iwayemi  
Sterling Jackson

### REGION V

Jonelle Jn Baptiste  
Vincent Johns  
Oloruntomi Joledo  
Isaac Jones  
Kari Jordan  
Kristin Jordan  
Joannas Joseph  
Akilah Kafele  
Patricia Ladipo  
Nina Lassonnier  
Chantale Levert  
Imani Lewis-Norelle  
Frederick Lowe  
India Lucas  
Derrick Malone  
Marsia Maynie  
Dubem Mbeledogu  
Tiaira McCloud  
Daniel Meredith  
Khalyn Miller  
Sterling Mitchell  
Breanna Murray  
Khalid Musa  
Walid Musa  
Viet Nguyen  
Ifunanya Obidi  
Azubuike Obikwelu  
Chukwunyere Ofoegbu  
Obinna Okechukwu  
Njideka Okoye  
John Okpiaifo  
Oluwatobi Olabiyi  
Oladapo Olobatuyi  
Akinloluwa Olumoroti  
Stanley Opara  
Ayman Osman  
Verity Owusu  
Mackenzie Pahren  
Dinh Phung  
Vinh Phung  
Brandon Pitts  
Ama Pobi  
Georgina Pobi  
Indhi Powlette  
Michael Reid  
Victoria Richards  
Jamal Riley  
Chelsea Rowe  
Ricardo Ruiz-Menjivar  
Jasmin Sanford  
Elicia Sashington  
Whitney Smelly  
Evan Smith  
Josh Spitzer-Resnick  
Sydnee Spivey  
Shea Spivey  
Wade Stallings  
Jerry Ta  
Kadijah Taylor  
Maunee Tweh  
Kimani Whitsey  
Valencia Williams  
Olumide Winjobi  
Jasmine Winston  
Abdul Aziz Yakubu  
Kyra-angel Young  
  
Samie Abdulhafiz  
Abraham Aboiralor  
Hosameldin Abouelhassan  
Eyidayo Adebola  
Ademola Adedapo  
Adeniyi Adetayo  
Anino Adokpaye  
Bolaji Afolabi  
Nimotalahi Ahmed  
Yousuf Ahmed  
Firesola Akinbuli  
Oluwanifemi Akinluyi  
Oreoluwa Alebiosu  
Gabrielle Alls  
Mohamed Alsabag  
Terry Anderson  
Linda Anekwe  
Alexander Anya  
Emole Anya Dimgba  
Olubodun Aruwajoye  
Abiodun Awojobi  
Gbolaheh Babayale  
Jessica Bee  
Solomon Benghan  
Michael Benissan  
Nahome Bete  
Taofeek Biobaku  
Kristian Black  
Elise Blackmon  
Laura Bloomfield  
John Brito  
Trenton Brown  
Antarr Byrd  
Tiffany Carson  
Zachary Carson  
Aaron Chambers  
Paige Cheatham  
Solomon Chikere  
Jetavon Christian  
Lawanda Christopher  
Elo Chukwuma  
Chelsea Clark  
Trokon Clinton  
Omar Clinton  
Zachary Davis  
Lucas Davis  
Arnold Durel Deffo Nde  
Christelle Dingana  
Keiron Durant  
Brandon Edge  
Dotun Ekunsanmi  
Shadrach Elechi  
Ahmed Elsheikh  
Franklin Epieng  
Rosaura Estrada  
Sunday Esumike  
Isaiah Gadson  
Jameka Griffin  
Andrea Guyton  
Mohammed Haq  
Kenneth Hardeman  
Kemar Hibbert  
Andrew Hooey  
Sulaimon Ibrahim  
Kay Igwe  
Stephen Igwe  
Ashioma Ishiekwene  
Je'Marcus Jackson  
Mariah James  
Olusolape Jemilugba  
Valentine Jideofor  
Adebolaji Jobi-Taiwo  
Tarebi John  
Dejah Johnson  
Mayaria Johnson  
John Kibe  
Jordan Knight  
Vanessa Kwarteng  
Jasmine Kwasa  
Miriam Laleye  
David Macaulay  
Oluwatomisin Macaulay  
Joseph Marigny Brown  
Adriane Maxie  
Jabu Mbara  
Stefan McCall  
Brendon McCullough  
Martin McCurdy  
Taylor McGowen  
Zekariah McNeal  
Billal Mekonnen

Andre Merille  
Christopher Mickles  
Christian Miller  
Amber Moore  
Kenya Morrow  
Sammy Mudedde  
Ane Muvadgah  
Josephine Namatovu  
Hedrine Nchinda  
Kachi Ndubuisi  
Alexis Nelson  
Darian Nelson  
Chibuisi Nnam  
Macmichael Nwaiwu  
Nelson Nwanganga  
Wasiu Oduola  
Victor Ogburie  
Praise Ogwo  
Deborah Ohiani-Jegede  
Charles Okolo  
Nneka Okoro  
Nwakanan Okoro  
Obinna Okpokwasili  
Olakunle Olaleye  
Abiodun Olaluwe  
Ademola Olarinde  
Akintomide Olaseinde  
Oluleye Olorode  
Oluwaseyi Omotore  
Chiamaka Onuigbo  
Olasehinde Owoseni  
Bwana Payeye Kizito  
Carion Pelton  
Alexa Pete  
Alexa Pete  
Anh Pham  
Lela Prichett  
Robert Ramirez  
Kaleb Richardson  
Austin Rudolph  
Koura Sall  
Francis Sama  
Logeshwar Sampathkumar  
Benjamin Sasu  
N'Desha Scott  
Manoj Seeram  
Jason Semien  
Haroon Siddique  
Imani Smith  
Sharis Steib  
Emmanuel Tata  
JaCarri Tollette  
Jarett Triplett  
Nnennaya Udochu  
Nnenne Udochu  
Emeka Ugwu  
Emmanuel Umejesi  
Akporure Unukpo  
Akporure Unukpo  
Deon Valerio  
Tyler Washington  
Eric Witherspoon

**REGION VI**  
Kwasi Addae-Mensah  
Olaoluwa Alebiosu  
Danica Anukam  
Randall Arthurs  
Meshack Audu  
Shedrack Audu  
Oluwaseyi Ayodeji  
Ahmed Balogun Mohammed  
Anthony Bell  
Rahel Beyene  
Joshua Bolding  
Robert Butler  
Brandon Caffie  
Julian Cannon  
Naima Castaneda Isaac  
Casey Cowell  
Desta Edosa  
Chijioke Ejimuda  
Sherief Elbassuoni  
Waldo Felix  
Blaise-Alexis Fouetio Kengne  
Nicole Gray  
Christina Hunter  
Caleb Ikwuagwu  
Jordan Jackson  
Julian Jackson  
De'Von Jennings  
Janessa Jennings  
Eurydice Kanimba  
Kassah Kantiok  
Maureen Kesaano  
Naa Adei Mante  
Elizabeth McCarthy  
Jordan Miller  
Chinyere Nwabugwu  
Stephanie Ogonor  
Oluwaseun Ogunro  
Dennis Oriero  
Christopher Osuala  
Olaoluwa Osuntokun  
Regan Patterson  
Malik Poole  
Dominique Reliford  
Triratna Shrestha  
Myatyti Shurney  
Michael Simpson  
Christopher Still  
Zachary Su  
Mireille Takou  
Ghislain Tchantchou  
Margarita Tenisi  
Kingsley Ufere  
Desmond Vehar  
Lawrence Vinson  
Nathan Walker

**TORCHBEARER**

**REGION I**  
Jasmine Abrams  
Collins Acheampong  
Mohammed Adeeyo

Dainelle Allen  
Uzo Amuzie  
Arlina Anderson  
Mark Apolala  
Jean Armatis  
Anesia Auguste  
Romaine Barnes  
Theodos Belay  
Sabrena Benjamin  
Kayla Blackwell  
Kavell Brown  
Bisola Bruno  
Korey Carter  
Alex Chaly  
Tamunoala Charles-Ogan  
Megan Cherry  
Chiamaka Chima  
Bubah Conte  
Ilean Curry  
Anthonio Dawkins  
Ogheneruona Dibie  
Gidley Dorlus  
Alandra Douglas  
Jean Dubois  
Mohammad El-Abid  
Raouia Essafi  
Ikemsinachi Ezekwo  
Youssef Farouk  
Brandi Fowler  
Devan Fuentes-Jett  
Allan George  
Gabriella Gilbert  
Christian Griffin  
Dominic Guri  
Bentley Hunt  
Keith Johnson  
LaBriah Johnson  
Samantha Jones  
Vladislav Khan  
Teresa Konopka  
Shilana Kowack  
Nana Kwasi Kwakwa  
Marissa Lafontant  
Sara Laghlam  
Yauchin Lam  
Nicholas Lightburn  
Rhodesherdeline Limage  
Ashley Lytle  
Marion Ma  
Jennifer Mahan  
Furqan Malik  
Nylahaj Manns  
Christian Mantilla  
Caleb McLean  
Ashley Medina  
Werdi Mugnya  
Neil Muir  
Rotimi Oduntan  
Adedolapo Olisa  
Ashely Oliver  
Christopher Oyenuga Oyenuga  
Priscilla Paul  
Omar Peele

Priya Pena  
Jean Pierre  
Kyra Price  
Alexander Proctor  
Mike Quashie  
Emily Ramirez  
Brandon Ransom  
Leonard Robinson  
Taylor Robinson  
Ronella Rodney  
Majestic Ross  
Steven Scott  
Inis Serrano  
Tyra Sims  
Eric Soltowski  
Chelsea Stephens  
Akeem Thorpe  
Antonio Upia  
Nwakaego Uzoh  
Martikah Williams  
Rochelle Willis  
Omer Zia  
Zebin Zinia

**REGION II**  
Oyin Adedipe  
Adebowale Adegboyega  
Kwabena Adu-Gyamfi  
Olanrewaju Alawaiye  
Princess Allen  
Roy Anderson  
Adebimpe Atanda  
Natalie Austin  
Tramond Baisden  
Venita Baker  
Aaron Banks  
Allysa Banks  
Holly Baptist  
ShaQuilla Bell  
Ricardo Benlizar  
Dwayne Berger  
Okello Bogle  
Lena Bradley  
Jonathan Branscomb  
Jordan Brooks  
Stonneal Carbon  
Glenda Carlton  
Njeri Carlton-Carew  
Sajeeda Chin  
Joshua Chukwuka  
Cedric Clark  
Gary Clark  
Victoria Clark  
Kimberley Clemonts  
Ashley Dauntain  
Bianca Davis  
Marcus Davis  
Toni Davis  
Nicole Dejean  
Kaila Doby  
Rick Drayton  
Lawrence Duncan

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## Celebrating Academic Excellence!

MenSa Eggleston  
Albert Ellis  
Oluseyi Emiola  
Kwesi Eshun  
Mofetoluwa Fagbemi  
Adrian Finlay  
Serge Gaba  
Jasmine Gaston  
Nikai Gibson  
Kyle Gillis  
Cecily Gomes  
Alicia Gormes  
Aisha Gravely  
DaNae Grubbs  
Desiree Hairston  
JaiQuan Hairston  
Khirran Hairston  
Rosheena Hairston  
Sherylee Harley  
Aaron Harrington  
Alex Hildebrand  
Kevin Holmes  
Kendal Hudson  
Jadavia Hunt  
Ikenna Ikeotuonye  
Whitney Ikpeze  
Israel Ilufoye  
Portia Isaac  
Tamuñotonye Iyalla  
Corine Jackman  
Alexis Jenkins  
Janelle Johnson  
Wynton Johnson  
Steven Jones  
Mujitaba Kazaure  
Kandace Kea  
Kara Kea  
Saran Keira  
Nazar Khalid  
Abisola Kusimo  
Thomas Lewis  
Patria Little  
Michael Mack  
Darcarius Martin-Meadows  
Jeffrey Mason  
Terrill Massey  
Triana McCorkle  
Earyn McGee  
Michael Melendez  
Garland Miller  
Marc-Antoine Milord  
Shari Mitchell  
Nwamaka Molokwu

Sade Oba  
Queeneth Odimegwu  
Vanessa Oguamanam  
Rachel Ogunsalu  
Ibironke Ogunye  
Folashade Okunubi  
Yinka Olutoye  
Thomas Opia  
Ibiyemi Osho  
Andrew Peters  
Nelson Pollard  
Courtney Purkett  
Nigel Randall  
Taylor Rhem  
Seth Robertson  
James Samotshozo  
Bryanna Saunders  
Jasmin Selby  
Jervyn Simon  
LaTonya Simon  
Janee Simpler  
Gregory Simpson  
Justin Smith  
Timothy Staton-Davis  
Marcus Stewart  
Tania Stewart  
Stacia Tarver  
Katreena Thomas  
Ebony Tongo  
Mykale Trotter  
Anthony Tufour  
Taylor Valencia  
Chene 'VInes  
Malik Waliyyuddin  
John Walker  
Ariel White  
Reginald White  
Tiffany Whitsett  
Janessa Wilkins  
Haven Williams  
Kevin Williams  
Ventress Williams  
Jehuti Willis  
Tuedy Wilson  
Zack Witt  
Venessa Woodson  
Ashia Wortham  
Essence Wright  
Tarah Wright  
Tayler Wright  
Treavor Yancy

**REGION III**  
Dawud Abdullah  
Salahudeen Abdul-Malik  
Sandra Ajimotokin  
Jamel Alexander  
Norquata Allen  
Mekutabasi Archibong  
Sandra Asoro  
Corey Baker  
Nnamdi Baker  
Jillian Bibbins  
Jasmine Bowers  
Kendra Bright  
Myron Bryant  
Devon Bulgin  
Warren Burgher  
Edward Burnett  
Carlos Calloway  
Joshua Campbell  
Brandon Carmichael  
Henry Carter  
Christopher Cole  
Leah Copeland  
Michael Cotter  
Bruce Cousin  
Xavian Daniel  
Patrick Delva  
S'Dravious DeVeaux  
Solimar Donato  
Parnell Dujour  
Imaette Ekere  
Najja Ellis  
Danny Emmanuel  
James Ensley  
Vyran George  
Brandon Hambrick  
James Hanley  
Rickell Hardaway  
Angelica Harris  
Charles Harris  
Leslie Harris  
ReHanshae Harvey  
Donovan Hicks  
Kordell Hightower  
Vanessa Holloway  
Toniqua Hunter  
Louis Jackson  
Jia Jantuah  
Stella Jarvis  
Jerry Jean Baptiste  
Kone Johnson  
Jonathan Jones  
Jordan Jones

Lewis Jones  
Nicholas Jones  
Sosthenes Karugaba  
Aman Khatri  
Shauna Kimball  
Ashley Lipford  
Johnson Luma  
Travis Mackey  
Brandon Marshall  
Michael Martin  
Kierna Mason  
Toni-Gaye McCulloch  
Junior Metayer  
Larry Miller  
Julien Missial  
Precious Mitchell  
Jelece Morris  
Vaibhav Nayar  
Thanh Nguyen  
Ifeanyichukwu Nwosisi  
Ange Nyankima  
Saheed Olanigan  
Chinelo Ononye  
Onyema Oyeka  
Waheed Oyekanmi  
Ajani Ozier  
Leanna Parchment  
Ian Peterson  
Alouette Prieto  
Kevin Prival  
Harry Ramnath  
Brianna Richardson  
Christopher Riley  
Jessica Robinson  
Edward Ross  
Myla Ruffin  
Kenneth SaeLee  
Darren Samuels  
Asha Saravanamohan  
Kamari Scotland  
Khadijah Shariff  
Natalie Sinclair  
Pierre St Juste  
Brianna Stewart  
Jonelle Stewart  
Tiara Stewart  
Wilkervens Tamar  
Kristen Thompson  
Raymond Tu  
Brian Tucker  
Jessica Vanterpool  
Alayah Walton

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# 16th Annual NSBE **GOLDEN TORCH AWARDS**

MARCH 30, 2013  
INDIANAPOLIS, INDIANA  
INDIANA CONVENTION CENTER

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## **United States Navy**





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## Celebrating Academic Excellence!

Myles Ward  
 Marc Warrior  
 MacKinzie Washington  
 Shannon Whyns  
 Aaron Williams  
 Brittany Williams  
 Charlesvester Wims  
 Glenda Young

### REGION IV

Sherry Ackerman  
 Oluwatosin Adesina  
 Jahan Alam  
 Mechia Augustin  
 Yeamlaksira Awol  
 Markell Baldwin  
 Sydney Beavers  
 Rebecca Bennett  
 Ellesse Bess  
 Michael Blasingame  
 Ariel Bouie  
 Landen Boyd  
 Casey Boyle  
 Wilbel Brewer  
 Sonya Brown  
 Miles Buob  
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 Christin Carter  
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 Rhonda Clarke  
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 Marvel Mangal  
 Khalilah Manson  
 Christopher Massie  
 Jacob Maston  
 Krystal McDoom  
 Anne Michel  
 Anfernee Myers  
 Uzoma Nwabara  
 Andy Nwaelele  
 Renee Oats  
 Oluwaseyi ("Shay") Ogebule  
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 Jarred Wilhite  
 Jeffrey Wolfe  
 Shantaviae Wynn  
 Ammaarah Yameen

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 Adebisi Adeniji-Adele  
 Aminah Adeyemi  
 Oluwafemi Aregbesola  
 Alexis Arrington  
 Johnson Asi  
 Rasheed Atanda  
 Olufunmilola Atilola  
 Oluwafemi Awolala  
 Ayotunde Awomolo  
 Daniel Balogun  
 Ernest Banks  
 Kendall Belcher  
 U 'Kevia Bell  
 Seifullah Mohammed Bello  
 Jade Benjamin  
 Bryne Berry  
 Belema Boyle  
 Kassidy Boyle  
 Alexis Bridgewater  
 Julian Buie  
 Marcel Buie  
 Ronald Bushnell  
 Gabrielle Cazeau  
 Chidozie Chinkata  
 Brianna Coleman  
 Vylace Collins  
 Olaniyi Dada  
 Kendall Davis  
 Nkele Davis  
 Mikaela Dulan  
 Brittany Edwards  
 Nebolisa Egbunike  
 Udememfon Ekarika  
 Zacheus Ekumatalor  
 Mohammed Elzubier  
 Stephen Ephron  
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 Kabila Gana  
 Justin Glasper

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 Biliaminu Lasisi  
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 Malik McCoy  
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 Vanessa Mpon A Ndohong  
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 Akeem Obe  
 Ahmed Odeyemi  
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 Kojo Orgle  
 Evan Orlandi  
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 Jeff Otieno  
 Kanesha Overton  
 Alex Presley  
 Kamani Randall  
 Laura Real  
 Maurice Reynolds  
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 Maya Rucks  
 Ivana Sanders  
 Ayodele Sangodeyi  
 Algy Semien  
 Mark Sharpe  
 Ashlee Sherman  
 Jordyn Simmons  
 Danielle Sinte  
 Mychal Smith

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Oladele Sowemimo  
Nehemiah Stephens  
Joi Stevens  
Angelique Taylor  
Ciore Taylor  
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Zion Thomas  
Erin Thornton  
Eurydice Ulysses  
Chinedu Umeasiegbu  
Marshall Watkins  
Andrea Webster  
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Robert Williams-Fry  
Winfred Winston  
Isaiah Woodson  
Sowmya Yelakanti  
Samreen Zarroug

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Mc Arthur Blackledge  
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Wington Brito  
Ayoade Dare  
Audrey Desmuke  
Austin DeYoung  
Jasmine Edwards  
Nicholas Flowers  
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Henon Gebre  
Reed Gibson  
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Beaujolais Wright

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Jorge Paucar  
Chany Peguero  
Claudy Philemon  
Christopher Pryce  
Dayton Rhymes

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Ruby Robinson  
Xiomara Salam  
Brian Short  
Chiziterem Uwaga  
Nwakaego Uzoh  
Charlenny Vallejo  
Byron Williams

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Medhin Adam  
Andrew Adderley  
Dayo Adewole  
Christian Adounvo  
Lydia Atangcho  
Teni Ayeni  
Bryant Beeler  
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Ephrem Woldetsadik

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Michael Boswell  
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Conrad Cole  
Nigel Collins  
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Morgan Farrar  
Kyle Findlater  
Juan Fleming  
Tiffany Flemmings  
Hawk Foreste  
Shanise Foster  
Teshawn Francis  
Stephania Germain  
Patrice Germain  
George Greig  
Ryan Griffin  
Kendall Harrison

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 Stephanie Hicks  
 Emily Hirano  
 Alaron Hubbert  
 Phillip Hughes  
 John Iyoyo  
 Kelvin Johnson  
 Nicholas Jones  
 Ukaku Kalu  
 Kenneth Kungania  
 Kirby Little  
 Maya Luster  
 Raven Malone  
 Isabella Mays  
 Delonee McBride  
 Malik McGee  
 Darnell McKenzie  
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 Latisha Pryor  
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 Harvis Smith  
 Karian Smith  
 Kristy Smith  
 Aneika Stephenson  
 Michael Swift  
 Jalen Tarvin  
 Brandon Todd  
 Edward Ward  
 Dorian Warren  
 Resi Williams  
 Casside Woods  
 Bethlehem Worku  
 Rodney Wyche  
 Jasmine Young  
 Abdullah Yousif

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 Ahmed Abdelsalam  
 Manahil Abdelsalam  
 Ali Abdul-Ghani  
 Temiloluwa Adeniyi  
 Kwame Aidoo

Mandyssa Alcee  
 Branden Alegbeleye  
 Imani Alexander  
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 Daniel Okegbu  
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 Emeka Opara  
 Amadin Osagiede  
 Shepria Pointer  
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 C D Powell  
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 Cordarryl Solomon-Williams  
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 Travis Tehlirian  
 Ron Thomas  
 Cameron Thornton  
 Godfrey Tillett  
 Chardonnay Tolliver  
 Autumn Vassell  
 Timothy Vernon  
 Torry Walker  
 Allan Wicker  
 Koreco Wilkins-Webster  
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 Alonzo Wilson  
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 Whitney Witherspoon

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 Basia Cavazos  
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 Scorpio Collins  
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 Babatunde Adeyale  
 Brian Bulaya  
 Braxton Cullors  
 Immaculate De Silva  
 Finagnon Dossou  
 Gabriel Draper  
 Amber Flowers  
 Chequala Fuller  
 Ashley Hall  
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 Olaleye Olayinka  
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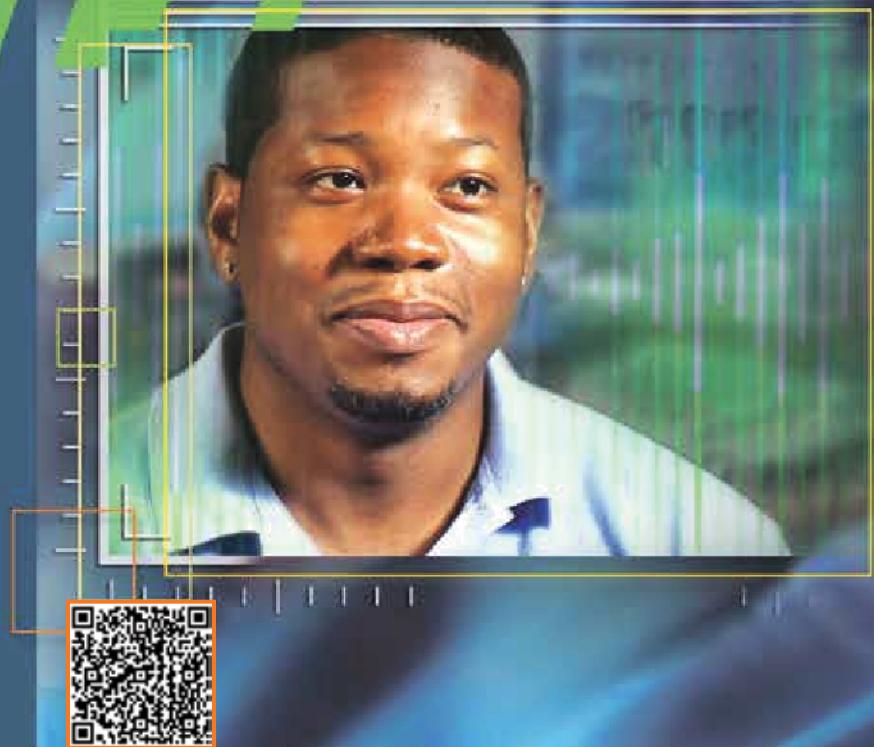
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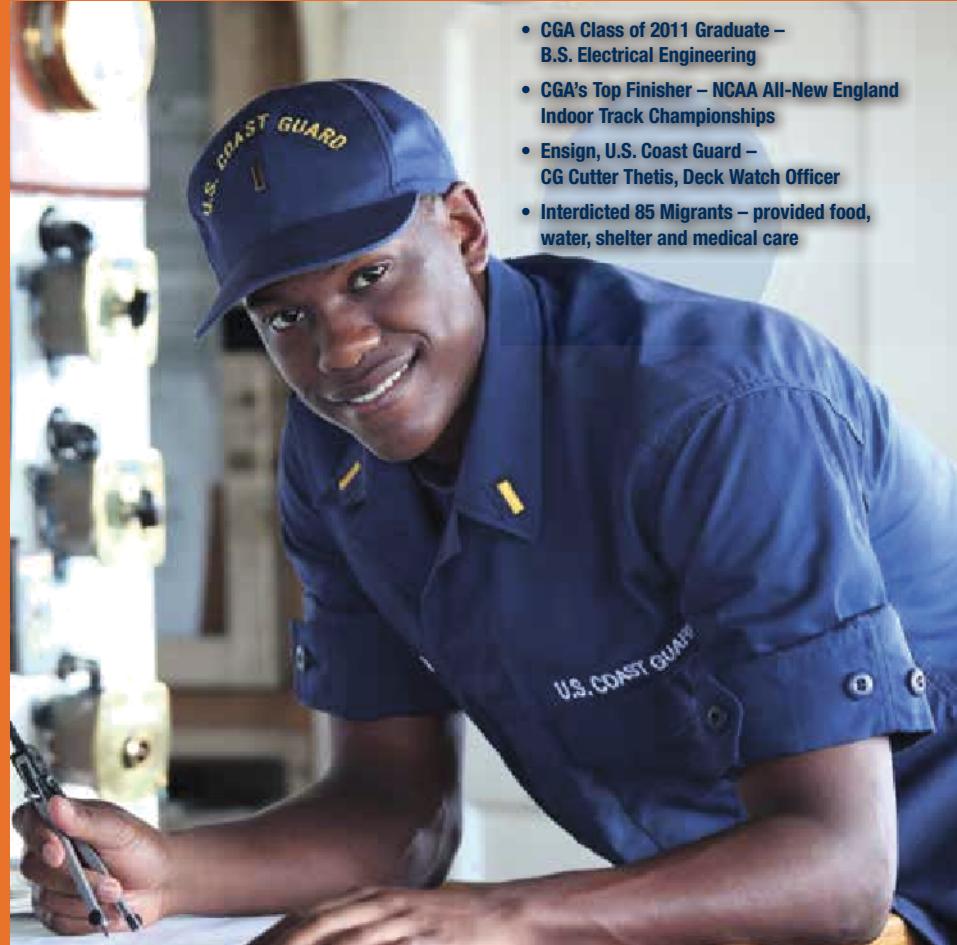
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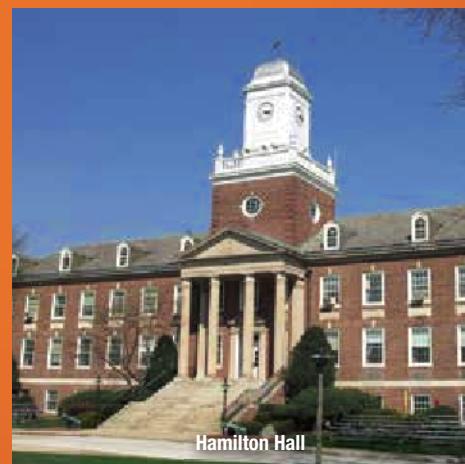
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