BEAM NEWS

Buffalo Engineering Awareness for Minorities

In this Issue:

- Annual Awards Breakfast
- Saturday Academy
- Girls Engineering Day
- BEAM Junior
- BEAM Summer Program
- BEAM Membership
- Spring it On

Annual Volunteer Awards Breakfast

BEAM held its Annual Volunteer Awards Breakfast on Thursday, November 5, 2015, at Emerson Commons. Approximately 70 guests attended the Breakfast to show their support.

Guest speaker, Dr. Kriner Cash, recently appointed superintendent of the Buffalo Public Schools, spoke about working with BEAM and the University at Buffalo to raise awareness about careers in engineering, and to help prepare the city’s middle and high school students for these careers. In particular, Cash would like to grow the number of immigrant, female and minority students who pursue engineering, and sees BEAM as a key partner in this effort.

BEAM honored the following recipients at the Awards Breakfast:

- **Charles Campbell Sr. Outstanding Service Award** - Jane Stoyle Welch, University at Buffalo
- **Special Achievement Award** - Drexel Gidney, University at Buffalo
- **Educational Achievement Award** - Robert Harris, Buffalo Public Schools
- **Corporate Partner of the Year** - Wendel
- **Technical Advisors Award** - Jean Hess & Peter Hingston, City Honors School, David Gromek, MOOG
- **Faculty Advisor Award** - Patrice Cathey, Liberty Partnerships Program, Buffalo State College

BEAM would also like to thank our sponsors:

**Breakfast Sponsors:** Wendel, DuPont and Watts Architecture & Engineering

**Table Sponsors:** Arcadis, National Grid, MOOG and Veolia
Annual Awards Breakfast

(From left - right)
Monika McFoy, Jean Hess, Peter Hingston, Dave Gromek & Art McKinnon

(From left - right)
Monika McFoy, Patrice Cathey & Art McKinnon

(From left - right)
Art McKinnon, Drexel Gidney & Monika McFoy
Saturday Academy

Saturday Academy is a hands-on program designed for students interested in exploring the wonder and excitement of science, technology, engineering and math. This is a FREE program, held every Saturday from 9:30 AM - 11:30 AM, and offered to students in grades 7 - 12.

- The 7th - 8th grade program consists of hands-on engineering activities in preparation for competing in the Jr. Solar Sprint Competition. This program is held at the Buffalo Museum of Science.

- The 9th - 10th grade program, using Lego Mindstorm Robotics, allows students to design, build and program robots. This program is held on UB North Campus.

- The 11th - 12th grade program allows students to explore various engineering disciplines and receive college preparatory information, through hands-on projects and guest speakers. This program is held on UB South Campus.

Top:
7 - 8th grade students designing a car model, using foam.

Bottom left & right:
10th grade students working with Lego Mindstorms.
Saturday Academy cont...

*Girls Saturday Academy*, for girls in grades 7 - 9, is a program sponsored by National Grid that explores engineering and other technical careers. Programming includes both computer-based and hands-on activities, field trips, and guest speakers from the industry. Girls Saturday Academy is held on UB South Campus.

*BEAM-ITEST* (Innovative Technology Experiences for Students and Teacher) is a partnership with the University at Buffalo that provides students in grades 9 - 12 with the opportunity to participate in a research project while learning about bioinformatics and careers in STEM. BEAM-ITEST is held on UB North Campus.

BEAM would like to give a special thank you to all of our dedicated volunteers, who have devoted their time and resources to making Saturday Academy a success.

Thank You to our Saturday Academy Volunteers

- Oluwole McFoy - 7th & 8th Grade
- Matthew Ziemba - 7th & 8th Grade
- Melissa Delmonte - 9th & 10th Grade
- Peter Talty - 9th & 10th Grade
- Elizabeth Reilly Meegan - 11th & 12th Grade
Girls Engineering Day

The BEAM/AAUW Girls Engineering Day program was designed to expose minority girls in grades 7-10 to careers in engineering and to positive female role models.

This program took place during the fall of 2015. 46 girls experienced hands-on activities that required the skills of an engineer, such as critical thinking, creativity, math and science concepts, and working productively in teams.

The purpose of the program was to make students feel empowered to successfully perform engineering based projects, gain awareness of engineering professions and pursue careers in engineering.

BEAM partnered with the following organizations to make Girls Engineering Day a success:

- Society of Women Engineers (SWE)
- Society of Hispanic Professional Engineers (SHPE)
- National Society of Black Engineers (NSBE)
- Women in Science and Engineering (WiSE)

BEAM would like to say thank you to the 31 UB students who volunteered during Girls Engineering Day.
Girls Engineering Day

Top left: Students working on the water filtration activity
Top right: Students working together in the team building activity

Below: Meet our Girls Engineering Day students and volunteers!
BEAM Junior

BEAM Junior is a hands-on program designed to formulate an early interest in engineering for young students. Legos were used as a creative means of helping students understand how science and technology frame the world students live in today.

1st and 2nd graders met on UB South Campus, during the fall semester. In December, 2015, students were able to showcase what they learned and participate in the Junior FIRST Lego League’s annual Waste Wise challenge. Students presented their Lego structures and SHOW ME poster at the Goergen Athletic Center, located at the University of Rochester. The topic was Anaerobic Digestion, and the Buffalo Shark Bites (BEAM Junior team name) were awarded the Genius Gas Gatherers Award.

BEAM would like to thank our volunteer teachers, Oluwole McFoy and Thomas Beauford, as well as our BEAM parents for making our first BEAM Junior program a success!
Students collaborating to form *SHOW ME* poster

Buffalo Shark Bites presents ... *Anaerobic Digestion!*

(at Goergen Athletic Center, University of Rochester)
BEAM Summer Program

BEAM is now accepting applications for the BEAM 2016 Summer Program. The application is available on our website at www.engineering.buffalo.edu/BEAM.

- Post 7th - 10th grade programs will run Tuesday, July 5th - Friday, July 29th
- Post 11th Grade program will run Tuesday, July 5th - Friday, August 5th
- Girls Camp, grades 8 - 10, will run Monday, August 1st - Friday, August 5th

BEAM Membership

BEAM is a member organization funded through the generous support of companies, educational institutions, community organizations and individuals.

BEAM is currently accepting applications for membership. We hope you will consider renewing your membership, or becoming a new member of our family, so we can continue to provide meaningful, quality programming for students in our community.

Membership applications can be found on the BEAM website. Thank you to our current members. Your support and commitment to BEAM has been invaluable in sustaining program opportunities for our youth.

BEAM For Spring It On

On March 24th at 8 AM, Spring it On will launch a 24 hour GIVE-A-THON, where tons of supporters can donate to various campaigns. We are hoping to raise money for our summer programs and hope you can be one of the contributors to our goal.

Your support would be greatly appreciated. Whether it is $5 or $25 that you can donate, every dollar counts!

Beginning March 24th at 8 AM, you can make a donation to BEAM at https://www.springiton.org/organizations/buffalo-area-engineering-awareness-for-minorities-beam

BEAM and our students thank you in advance for your support!

Our Goal: $1,000