

College of  
**Education**  
 NC STATE UNIVERSITY

NC STATE UNIVERSITY NC-MSEN PRE-COLLEGE PROGRAM

# FYI (For Your Information)

## Parent Workshop Brings Empowerment

As part of the Saturday Academy, the NC-MSEN Pre-College Program at NCSU provided a two-prong workshop for its parents. An estimated group of 60 parents came out to the sessions. Two sessions were provided for the parents. The first session presenter was Mr. Claude Lee who has been a guidance counselor for 20 plus years in various school systems in North Carolina. His presentation was titled “**Navigating Through the School System: Taking the Right Courses**” It provided great information to our parents on the importance of their children taking the correct courses. Also, it provided great information to parents on their rights at the school. For example, Mr. Lee shared that as a parent, you have the right to put your child in an honors or AP course regardless of the recommendation from a teacher.

So many of the parents were excited and asked for a part two of the workshop.

In addition, the second part of the workshop was a presentation from Dr. Gerri Williams, Director, Pack Promise Program at North Carolina State University.

The Pack Promise program provides full financial aid for any student who is admitted to NCSU whose family income is 200 percent of the federal poverty level. The program also provides academic support for the students by assigning them to a NCSU faculty/staff member as a mentor. Dr. Williams who is also a part of the Financial Aid Department at NCSU gave an extensive college financial aid workshop to the parents. She shared the different types of financial aid and gave sug-

gestions to the parents of middle and high school students of how to research scholarships. A separate session was given to high school seniors and parents on the FAFSA.



Gerri Williams, Pack Promise Director, talks to parents at Saturday Academy.

## Belle-JAR Foundation awards NC-MSEN PCP at NCSU \$75,000 over three years

THE BELLE-JAR FOUNDATION BASED IN SAN FRANCISCO, CA AWARDED THE NC-MSEN PRE-COLLEGE PROGRAM AT NCSU A \$75,000 GRANT THAT WILL BE SPLIT OVER THREE YEARS.

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FYI (FOR YOUR INFORMATION) IS A QUARTERLY PUBLICATION THAT PROVIDES INFORMATION ON THE NC-MSEN PRE-COLLEGE PROGRAM AT NC STATE UNIVERSITY. THIS PUBLICATION IS FOR PARENTS AND SUPPORTERS OF THE NC-MSEN PRE-COLLEGE PROGRAM.

## NASA-SPACE Students Visit NASA-Langley Research Center

On October 29, 2010, the NASA-SPACE students visited NASA-Langley Research Center in Hampton, VA. The NASA-SPACE project is a special opportunity for 210 ninth graders who are members of the NC-MSEN Pre-College Program across the state of North Carolina. At NCSU, 34 students participate in the NASA-SPACE program. The purpose of the project is to provide curriculum content and activities that involve engineering, physics, and robotics. All students are required to attend the Summer Scholars program for two full weeks in the summer and 10 Saturday Academy sessions during the school year for two years. Each year, a trip will be provided to visit and tour a NASA facility. For the first year of the project, each NC-MSEN Pre-College Program site will visit NASA-Langley Research Center.

NASA's Langley Research Center was the initial home of the first astronauts,



Sam James, NASA Employee, explains a type of material and is used on airplanes and spaceships that are designed at NASA.

abort system for the next generation space capsules. Researchers at Langley are focusing on some of the biggest technical challenges of our time: global climate change, access to space and revolutionizing airplanes and the air transportation system.

The tour of NASA is very special since normally this is not accessible to the general public. At the tour, the students had the opportunity to tour one of the modeling labs. The modeling lab is where plans are put into reality. Sam James who is a long time employee in the Modeling Lab

the Mercury 7. Now the Center is working to design and test a new launch

showed off many of the models that his area builds. Models are built using designs in order to save money. The models are tested in some of the wind tunnels to see how they would react to wind and shear. In the picture, Mr. James showed the students how they utilize and test different types of material that will be used in the actual design of the airplane or spacecraft.

Next, students actually stepped into one of the various wind and temperature tunnels. These tunnels are used to test model airplanes and spacecraft. The students were explained how the tunnels are operated. Finally, the students were given a presentation on the NASA INSPIRE program. The INSPIRE program provides an online community for students to participate in, and it provides opportunities for a summer program and internship for older high school students.

## Northern College Tour Provides The Opportunity To Visit Colleges in the Washington, DC/Baltimore, MD Area

On November 3—5, 2010, 40 students from the NC-MSEN Pre-College Program at NCSU traveled to the Washington, DC/Baltimore, MD area to tour several colleges and other sites in the area. The group stayed at a hotel in between Baltimore and Washington. On Wednesday, the students visited Georgetown University and the Washington Monument, the Korean Memorial, the World War II and the Lincoln Memorial.

On Thursday, the students visited two universities. The students visited John Hopkins University and the University of Maryland at Baltimore County. Each day, the students had the opportunity to each lunch on one of the campus's. ON the first day, the students ate lunch at Georgetown which had a two level dining hall that offered Asian, Mexican, and all kinds of entrées. On Thursday, the students ate on the campus of the University of Maryland at Baltimore County which

had a traditional one-level dining hall. On Friday, the students toured Howard University and were fortunate to even have a tour guide from Durham, NC. Each evening, students had the opportunity to unwind through visitations at various shopping malls in the local area. In addition, on Thursday, the students visited the Great Blacks Wax Museum in downtown Baltimore. This museum has the most extensive collection of African-American History and African-American wax figures in the United States.

In addition to the college tours, at the University of Maryland at Baltimore County visitation, the students learned about a program called the Meyerhoff Scholars Program. This program started in 1988 with the first graduating class in 1993, and it provides a full scholarship, mentoring, advising, and research experiences to minority students who are interested in pursuing their undergraduate



Georgetown University - Healy Hall - Georgetown's flagship building which houses administrative offices and a library

degree in a STEM field. Many of the students who participate in the program are encouraged to pursue their doctorate in STEM. The program has experienced a very high success rate with over 600 students who have graduated from the program.

Alumni from the program have earned 65 Ph.D.s and 22 M.D./Ph.D.s. The students from NCSU's MSEN PCP were able to meet with one of the program directors and to meet and talk to a panel of students who are currently in the program. Two of the panel members were from North Carolina including one student who is from SE Raleigh High School.

## East Millbrook MS MSEN PCP Receives Award At Future City Competition at NCSU

The East Millbrook MS MSEN Class received an award at the Future City Competition on the campus of NCSU. The Future City Competition serves students in 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> grade, and it is sponsored by National Engineers Week. This national program introduces students to engineering with the popular SimCity 4 Deluxe™ software. Students design future cities with simulation software, build scale models, write essays and give oral reports on their city's design. The NC Regional Future City Competition was held on Saturday, January 15, 2011 the campus of NCSU in the Talley Student Center. 20 teams from North Carolina participated with



MSEN Students from East Millbrook Middle School show their city at the NC Regional Future City Competition at NCSU.

the winner moving forward to the national competition in Washington, DC.

As part of the Future City competition, awards were given for competitors who performed at the top level in several areas such as best environmental design, best use of energy, best use of water sources, and other areas. East Millbrook won an award for "Best Incorporation of Healthcare product". The specific cate-

gory is to create a city 150 years in the future that provides a reliable and effective health care product that effectively improves the quality of life and comfort for a patient who is either a senior citizen or has a specific disease, or is suffering from an illness, injury, or physical disability. The students at East Millbrook

MS picked Alzheimer's disease.

The MSEN PCP class at East Millbrook MS won a \$200 prize. \$100 will go to the students while \$100 goes to the teacher for supplies. The students decided to donate the \$100 prize to the Alzheimer's Association of Raleigh, NC.

The students on the team were Derrick Dreier, Kaylee Jacobs, Kenlee Jacobs, Erin Johnson, Abdul Khadri, Candice Kelly, Kimberly Maina, Orion McNeill,

## Belle-JAR Foundation Awards \$75,000 Grant to NC-MSEN Pre-College Program at NCSU

The Belle-JAR Foundation awarded the NC-MSEN Pre-College Program at NCSU a three year, \$75,000 grant. The Belle-JAR Foundation located in San Francisco, CA. approached the Friday Institute because they were looking for a project to financially support. The NC-MSEN Pre-College Program at NCSU recently received funding from the National Science Foundation for three years

to serve the students in Bertie, Northampton, and Warren Counties and Weldon City which are rural counties. The Belle-JAR Foundation wanted to fund a project that supported rural students.

It was the desire of the NCSU site to provide a one week summer residential experience for the students from those northern rural counties. The Belle-JAR Foundation sent the paperwork for the

NCSU site to submit a grant, and the Belle-JAR Foundation contacted the NC-MSEN PCP-NCSU site before Christmas and announced its commitment to fund the summer residential experience with a \$25,000 per year award for three years. The Foundation has already sent the first year's amount of \$25,000 in early January.

## Saturday Academy Offers Wide Range Of Opportunities

Saturday Academy at NCSU was held from October 16 through December 11 on the campus of NCSU. Middle school students took courses in math, science, communications, MSEN Day activities, and robotics. High school students took classes in math, science, communications, robotics, and video gaming. The high school juniors and seniors had the opportunity to visit NCSU's Open House on October 16.

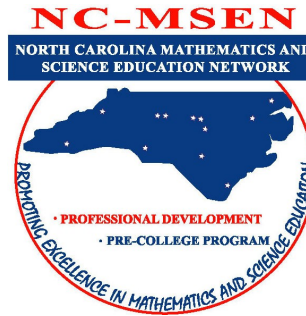
Students were escorted by NCSU Teaching Fellow students and given a tour of campus as well as they were able to obtain academic and admissions information from various departments at NCSU. On one of the Saturdays, the middle school students were given a presentation on attending college from Mr. Geoffrey Hunter who works in the Office for Diversity and Inclusion. In addition, students from NCSU gave the middle school

students a tour of campus. The same panel of students gave a presentation on college transition to the high school juniors and seniors.

NC STATE UNIVERSITY NC-MSEN PRE-COLLEGE PROGRAM AT NC STATE UNIVERSITY

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## NC-MSEN Pre-College Program Calendar of Events

### *Saturday Academy, Winter Session*

**8 a.m.—12:30 p.m.—Poe Hall,  
NCSU Main Campus**

February 26, 2011

March 5 and 12, 2011

April 2 and 9, 2011

### **Mini-Runoff**

Saturday, April 9, 2011—Friday Institute,  
NCSU Centennial Campus

9—12:30 pm

### **MSEN DAY 2010**

Fayetteville State University

April 30, 2011

### **MSEN 25th Annual Awards Ceremony**

Saturday, May 21, 2011

10:00 a.m.—Witherspoon Student Center—  
NCSU Campus

### **EnvironMentors Symposium**

April 2011—Biltmore Hall—NCSU Main  
Campus

### **Summer Scholars Program— Wake, Johnston, Franklin, and Granville**

June 20—July 1, 2011

NCSU Main Campus

### **Summer Scholars Program— Bertie, Northampton, Warren, and Weldon**

July 24—30, 2011

NCSU Main Campus