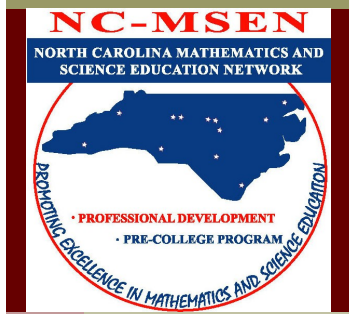


Volume 3, Issue 1

May 16, 2011



College of
Education
 NC STATE UNIVERSITY

NC STATE UNIVERSITY NC-MSEN PRE-COLLEGE PROGRAM

FYI (For Your Information)

NCSU NC-MSEN PCP MSEN Day Champions!

On April 30, 2011, NCSU's NC-MSEN Pre-College Program invaded Capel Arena on the campus of Fayetteville State University and took its rightful place as champions once again for MSEN Day. Since 2005, the NCSU NC-MSEN PCP site has placed in the top three overall and hopes to have a dual championship title in 2012. In 2012, Elizabeth City State University will serve as the host for MSEN Day.

NCSU only brought 78 students (the max is 80), but the majority of the teams placed in the top three. NCSU won gold in Pre-Algebra, Algebra II, Chemistry, Mystery Architecture (HS), Parachute Egg Drop (both divisions), and Poster Art (MS). The team posted impressive silver medal winners in the areas of Geometry, 8th grade Science, Oratorical (MS), Picture This (HS), Write It-Do It (both divisions), and Robotics (MS). Lastly, NCSU team claimed bronze medal winners in 6th grade math, 7th grade science, Biology, Bottle Rockets (both divisions), Oratorical (HS), Quiz Bowl, and the T-shirt Competition.

The program has adopted the theme "We are the Wolfpack! Enough Said?!" The students take great pride in winning the overall championship and look forward to defending their title next year in Elizabeth City.



NCSU NC-MSEN PCP students celebrate their MSEN Day championship in Capel Arena

Makendra Umstead: Former MSEN students makes her mark at NCCU

MAKENDRA UMSTEAD, A GRADUATE OF SE RALEIGH HS AND A FORMER NC-MSEN PRE-COLLEGE PROGRAM AT NCSU GRADUATED SUMMA CUM LAUDE AT NC CENTRAL ON SATURDAY, MAY 14.

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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.

Makendra Umstead, former MSEN student, Makes Her Mark at NCCU

Makendra Umstead, a graduate of SE Raleigh HS and a four year participant of the NC-MSEN Pre-College Program at NCSU, has a reason to smile. She graduated Saturday from NC Central University (NCCU) with her bachelor's degree in pharmaceutical sciences with a 4.0 GPA. Makendra is one of four students "featured graduates" on the NCCU website under its Commencement Exercises webpage.

As a Chancellor's Scholar and recipient of the Soaring Eagles scholarship, the Chancellor's Award for Academic Excellence and the Department of Pharmaceutical Sciences Academic Excellence award for a senior, Umstead has a lot to celebrate. But her many accomplishments are just steppingstones to her ultimate goal and personal mission, finding a cure for breast cancer.

The motivation behind her determination is her mother, who was diagnosed with the disease when Umstead was a junior in



Makendra Umstead, 2007 SE Raleigh HS Graduate, 4 year member of NC-MSEN Pre-College Program—NCSU

high school. "Watching her go through chemo, I wanted to do something to help," Umstead said. The first thing she did was earn a scholarship to

college. With an older sister already in college, Umstead knew her parents could not afford to pay tuition for both of their children. "I wanted to relieve them of that burden, and they have always taught me to work hard and do better."

She was accepted at UNC—Chapel Hill, Duke University, East Carolina University and N.C. State University. She chose NCCU because of the warm community she found when she visited the campus. "I love this university," said Umstead, "and every chance I get I am recruiting students and telling them why I came to

NCCU."

She credits the NC-MSEN Pre-College Program with the stimulation of her interest in science. During one of her summers in high school, she participated in a summer research experience at NCSU's Food Science Department which is sponsored through the NC-MSEN PCP at NCSU site and the Food Science Department at NCSU. Makendra stated this experience was key to her pursuit of a career in science research.

After college, Umstead will be entering a doctoral program in Cancer Biology. It was a tough choice - she has been accepted at Brown University, Vanderbilt University, UNC—Chapel Hill and Emory University. She accepted the offer from Emory University. She says, "the program combines my love for science, my interest in cancer research, and my passion for helping people."

(this story contains excerpts from the

NC-MSEN PCP Middle School Students Visit Disney World

On March 24—27, 2011, the NC-MSEN Pre-College Program visited the Walt Disney resort in Orlando, Florida. 33 students and 9 adults traveled to Florida on a charter bus. The group left the Friday Institute at 2 a.m. (yes, 2 a.m.) on Thursday. This allowed the group to reach Florida early afternoon so that the group would be able to visit one of the amusement parks later in the afternoon.

The Disney Youth Education Series program provides hands-on courses in four different disciplines—Leadership and Careers, Arts and Humanities, Physical Sciences and Natural Sciences. These hands-on courses increase learning desire, encourage students to reach their potential and demonstrate the importance of teamwork, all in a unique setting that combines the classroom with the real world. The classes are taught by specifically trained Disney teachers.

The MSEN students took two different

classes. The first class was at 8:30 a.m. on Friday morning at Disney Epcot, and it was focused on teamwork. The students learned the value of teamwork. On Saturday at 7:15 a.m., the students took the 2nd class titled "Disney's World of Physics: Properties of Motion" at Magic Kingdom. The students felt that they were in a truly science and math class where they applied the Pythagorean's Theorem and other important math and science theories to how the rides operate. Classes lasted for three hours; afterward, the students were able to spend the rest of their day visiting other parks at the Walt Disney World complex such as Animal Kingdom Park, Epcot, and Disney Hollywood Studios.

The trip provided a fun yet educational opportunity to visit one of the world's

most famous amusement parks. The students enjoyed the fellowship of their other MSEN students, but they also learned quite a bit about science and teamwork. Next year, the program plans to take the middle school students on a similar trip to Atlanta where the students will visit colleges and universities such as Spelman, Morehouse, and Georgia Tech and visit the famous Georgia Aquarium and the Coca-Cola Plant.



Two MSEN students walk down the street and view the sights at Disney Hollywood Studios.

Engineer Motivates NE North Carolina MSEN Students

The newest members of the NC-MSEN Pre-College Program at NCSU were baptized on Saturday, May 7, at their first Saturday Academy. Some of the students traveled as far as two hours from places such as Conway, NC to attend their first Saturday Academy.



MSEN Students from Weldon, Warren, Northampton, and Bertie Counties listen to a guest speaker at Saturday Academy

The students began arriving around 9 a.m. from places such as Windsor, Conway, Norlina, and Weldon. The students live in counties and communities that are closer to Virginia than Raleigh, but through a grant from the National Science Foundation, the students will be able to participate in the NC-MSEN Pre-College Program for three years. The emphasis of the grant is to provide STEM career and content exposure. For the first

day, the students listened to a presentation from Mr. Corey Scott who is an engineer. Corey grew up not far from Bertie

PCP, Scott graduated from Old Dominion University largely through an internship with Siemens Automotive which was earned through an internship program that CHROME offered graduating high school seniors. The internship turned into a co-op experience with the company, and it opened the door for many other opportunities for Scott.

Scott is very excited and willing to talk to young students about the opportunities that they can pursue through academics. Scott grew with high profile athletes such as Michael Vick and Allen Iverson in downtown Newport News, but he chose academics as his ticket to success and wants to share the same message with other students. r supplies.

County in Newport News, Virginia. He grew up in a single parent family in a neighborhood without many role models. Through mentors in his schools and participation in the Cooperating Hampton Roads Organization for Minorities (CHROME) which is a pre-college program with similar goals as the NC-MSEN

NASA-MSEN SPACE Student Benefits From the NASA INSPIRE Program

Caity Caggia, a freshman, at Green Hope High School, and a first-year participant in the NC-MSEN PCP NASA-SPACE program has earned a summer internship through the NASA INSPIRE program.

The Interdisciplinary National Science Project Incorporating Research and Education Experience, or INSPIRE, is a multitier year-round program designed for students in ninth to 12th grade who are interested in science, technology, engineering and mathematics, or STEM, education and careers.

Through the INSPIRE Online Learning Community, or OLC, the centerpiece of the INSPIRE Project, students from across the nation have the opportunity to interact with their peers, NASA experts, and education specialists twenty-four hours a day, seven days a week. Members of the OLC Discover new knowledge while exploring their interests through unique activities and challenges; Connect with subject matters experts through weekly chats and blogs, as well as their peers on an ex-

clusive discussion board; and Equip themselves through access to resources designed to help students prepare for their future as well as information about other NASA competitions/opportunities. Even parents/guardians have a unique opportunity when their student is accepted into the INSPIRE project by providing them with resources designed to help champion their child's education and career goals.

All NASA-SPACE students meet the guidelines for joining the INSPIRE program as long as they have a minimum 2.5 grade point average and are U.S. citizens. As a result of a student's participation in the OLC, students in good standing have the opportunity to compete for grade-appropriate summer STEM experiences. The summer STEM experience is designed to provide hands-on opportunities to investigate education and careers in STEM at a NASA facility or a Space Grant Institution/University. Each summer experience, except the Collegiate Experience,

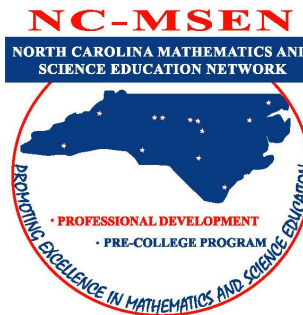
will take place at the NASA facility within the student's service area.

Caity is only one of two students in the state of North Carolina and one of 15 overall students who have been selected to participate in the **Explorer Experience**. The Explorer Experiences is NASA INSPIRE's ninth grade summer experience. The selected students and their parents/guardians receive a trip to the NASA facility within their service area which for Caity is NASA-Langley Research Center in Hampton, Virginia. Caity and her family will participate in a VIP tour and workshop. The experience will occur on July 25—26, 2011.

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