



# FYI (For Your Information)

Volume I, Issue I

October 27, 2009

## Summer Scholars 2009

The NCSU NC-MSEN Pre-College Program held its annual **Summer Scholars program during the weeks of June 22—26 and July 6—10, 2009**. 108 students ranging from grades six through twelve attended the program. All classes were held in Poe Hall on NCSU's Main Campus. Students took classes from 8 a.m. to 12 noon; at noon, students ate lunch in the Clark Dining Hall on East Campus. In the afternoons, the high school students were exposed to a variety of guest speakers and visited many STEM centers. The middle school students focused on their **robotics competition** in the afternoons; the middle school students did have a few guest speakers on various occasions.

The **guest speakers** came from a wide range of places including the National Weather Service, the Textile Chemistry Department, the Mechanical and Aerospace Engineering Department, and the Forestry Department. In addition, students were able to see an all electric car and truck; they toured NCSU's the College of Textiles and the College of Veterinary Medicine. In addition, they visited the NC Solar Center where they saw a solar-powered house.

range of classes and curriculum in the program. Middle school students took courses in mathematics, science, robotics, and communications. In the robotics course, students had an end of summer competition on the last day. The competition required that the students had to **build a hammer robot that would catapult LEGO people into an arena area**. The team that would catapult the most LEGO people would be the winners. The robotics teachers, Ms. Peake and Mr. White, were assisted by an undergraduate student from the University of Michigan, Anna Jacobsen. She gained great experience from this venture.

Our high school program offered classes in mathematics, polymer chemistry, communications, and career awareness. Our career awareness course is taught by a high school guidance counselor who was Mr. Lee. Mr. Lee is also the MSEN Advisor at SE Raleigh High School. Students could bring in their transcripts and receive one to one assistance and guidance on their career objectives. Students created detailed plans on high school course selections and researched their college and career choices more in depth.



Anna Jacobsen, University of Michigan student, assists middle school students during Summer Scholars with testing a robot.

students, our mathematics class provides a "head start" on their math course for the fall. Students take the math course that they will take in the fall or spring; as a result, students should perform better since they receive advanced instruction.

On the last day, July 10, a brief closing program was held where students were given awards for their completion of the summer program.

Students were exposed to wide

For the middle and high school

### Inside this issue:

Summer Scholars 1

Food Science Internship 2

Calendar of Events Fall 2009 2

## FOOD SCIENCE INTERNSHIP OFFERS UNIQUE OPPORTUNITY

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

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Greg Terrell, a senior, at Enloe High School, and Myah Smith, a senior, at Wake Forest-Rolesville High School, were the two participants of the MSEN USDA Food Science Internship. Each year, our program partners with the USDA Research Service and the Food Science Department at NCSU on a summer internship for two high school students. The two students must have earned a "B" average or higher in algebra II, biology, and chemistry. Students must have an interest in science or engineering for their career interests. Students are paid over \$9 per hour for one month; students typically work Monday through Friday for approximately 20 hours per week.



The students work with USDA researchers in the Food Science Department at NCSU. NCSU's Food Science program prepares students who have strong academic work in biology and chemistry for careers in food safety, food DNA, and food research.

In particular, the Food Science Department and the USDA Research Service provides support for the Mount Olive Pickle Company and other companies throughout NC. through research projects that solve real problems. The students took a field trip along with a few staff members to the **Mt. Olive Pickle Plant in Mt. Olive, NC**. Students were able to observe the pickle process and take samples from the plant for research purposes. Students worked on a project involving

the **DNA fingerprinting of foods utilizing bio-chemistry**. Students are required to present their projects to the entire Food Science Department on the last day of the program.

The USDA provides the salaries for the students with the intention of recruiting these students into the field of food science. Students who graduate with a degree in food science receive employment from companies such as Campbell Soups, Nestle, Hershey, Kraft, and other major food companies across the United States.

### NC STATE UNIVERSITY NC-MSEN PRE-COLLEGE PROGRAM 2009 FALL CALENDAR

<b>Saturday Academy, Fall Session</b>	<b>Scholarship Research Session for Juniors and Seniors</b>
<b>October 17 and 31, 2009</b>	<b>December 12, 2009</b>
<b>November 7 and 14, 2009</b>	<b>10 a.m.—Poe Hall</b>
<b>December 5 and 12, 2009</b>	<b>Presenter: Jasmine Jarvis, former NC-MSEN Pre-College student, currently, sophomore, NCSU</b>
<b>Parent Workshops:</b>	
<b>CFNC: Get an Early Start on Financial Aid for your child</b>	
<b>December 12, 2009</b>	<b>Southern College Tour:</b>
<b>11 a.m.—Poe Hall—NCSU Campus</b>	<b>Clemson University, Morehouse College, Spellman College, Georgia Tech, Tuskegee University</b>
<b>Presenter: Sarita Broadway, College Foundation of North Carolina</b>	<b>Wednesday, November 4, - Friday, November 6, 2009</b>