

UNC Chapel Hill NC-MSEN Pre-College Program (PCP)

University of North Carolina at Chapel Hill, School of Education

Saturday Academy – Session II

May 17, 2011
Volume 11, Issue 3

Students attended from Durham, Orange, Chapel Hill and Alamance counties. The middle school students rotated between four classes – science, language arts, mathematics and competition preparation. In science they learned about the different systems in the body, cells and forensics. In the mathematics class students discovered different ways to solve equations and played math jeopardy. The Language arts teacher taught students how to write to interview and write an article based on the information obtained. The students learned how to program the Mindstorm Lego robots to perform particular tasks

High school students attended four

classes –science, mathematics, language arts and careers. Gravity and biotechnology experiments were performed in the science class.

In the math class, students performed an experiment with temperature. Students also had to use their geometric skills to build a tetrahedral kite. Students in the Careers class continued to work on their CFNC accounts and learned more about their personality from a personality test.

Students built and wrote about their rockets in the language arts class. They also had an opportunity to launch and calculate the altitude of the rockets after being launched.

Special Activities

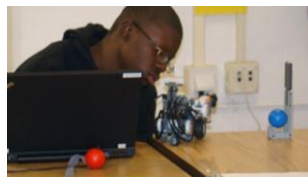
- Dr. Martin Luther King, Jr., Birthday Celebration
- Sam James, Mechanical Engineering Technician, NASA Langley Research, spoke to students about his education, job and brought a replica of a NASA prototype plane
- BRITE Presentation, Natacha Janvier-Derilus and Betty Brown, spoke to students about the BRITE (*Biomanufacturing Research Institute and Technology Enterprise*) program and student participated in a hands-on activity.
- Ms. Sarita Broadway, CFNC, spoke to students and parents about the CFNC website



MS Science



MS Language Arts



MS Competition Prep



MS Math



HS Career



HS Science



HS Math



HS Language Arts/Rockets



BRITE Presentation

Parent Academy

There were two Parent Academy's in the second semester. One Parent Academy was for SPACE Parents where the activities in the SPACE Program, upcoming competitions (Science, Decathlon, FIRST and State NC-MSEN Day) were discussed.

In the last Parent Academy, parents shadowed their students in the Saturday Academy classes and participated in the activities. The parents were invited to attend the CFNC Presentation by Ms. Sarita Broadway, CFNC Regional Representative.



Parents in HS Science class

Green Hope Elementary School Math & Science Night

PCP was invited to perform workshops for the Creek Hope Elementary School Math and Science Night. PCP offered Hoopster (led by Adam Belcher and Calvin Affleck), Sharpie Science (led by Rebecca Small), Tangrams (led by Dianne Affleck) and Straw Rockets (led by Quentajia Small).



National and East Coast Science Decathlon

Science Decathlon is made of 10 events and 3 pilot events. Students work in teams of up to six members. PCP had 3 teams – 1 middle and 2 high school teams compete. Due to budget and travel constraints from the West Coast, the East Coast Regional Conference and the National Science Decathlon was combined this year. Winners will receive both Regional and National recognition medals.

Three UNC Chapel Hill Students (Adam Belcher, Janelle Ingram and Quentajia Small) were interviewed for a Durham Herald Sun article about the Science Decathlon. The students talked about their experiences with competing and exploring STEM. The high school teams placed 1st and 2nd Overall.



Keith Sims
Water Bottle Rocketry
Pictures from the Durham Herald Article



Diana Lamaute & Adam Belcher
Bridge Breaking



1st Place High School Team # 13
Lamonte (Back turned), Chris James,
Nick Conde Keith Sims and
Lambodar Damoduran (not pictured)



2nd Place High School Team #14 -
Quentajia Small, Adam Belcher,
Janelle Ingram and Diana Lamaute

The high school PCP team members were: Team #13 – Adam Belcher, Janelle Ingram, Diana Lamaute and Quentajia Small; Team # 14 – Lamonte Brunson, Nick Conde, Lambodhar Damoduran, Chris James, and Keith Sims. The Middle School team (#6) members were Calvin Affleck, RJ Jackson, Saishareyas Kolavennun, Reginald Lamaute, Matt Lebedev, and Chastiny Reid. SPACE students are highlighted in yellow. PERSIST students are highlighted in blue. Note, 9th grade students can compete in the middle school division.



UNC Chapel Hill Team

State NC-MSEN Day – April 30, 2011

Students competed at the NC-MSEN State Day competition at Fayetteville State University. The following students below participated. SPACE students are highlighted in yellow. PERSIST students are highlighted in blue.

Joshua Acker, 8th Science, 3rd Place; Calvin Affleck, Algebra – MS; Jean Christian Barry, 8th Science, 1st Place; Francisco Basilio, 7th Science; Atreyo Best, Mystery Architecture, 3rd Place; Ronald Bethea, Mystery Architecture, 3rd Place; Ryan Bunn, Algebra - MS, 1st Place; Brandon Casablanca, Algebra - MS, ShaQuan Dixon, Egg Drop – MS; Heather Drab, Pre-Algebra, 3rd Place; Christin Evans, Oratorical; Sosa Evbuomwan, Tower, 2nd Place; Tivin Harris, 8th Science, 1st Place; Rian Honore, Bottle – MS; Savannah Jackson, 8th Science, 3rd Place; Emmanuel Johnson, 8th Science, 3rd Place; Reginald Lamaute, Algebra - MS, 1st Place; Diego Martinez, Pre-Algebra, 3rd Place; Ivan Martinez, Egg Drop – MS; Bria Massey, 8th Science, 1st Place; Gregory McKennon, Bottle – MS; Diana Parades, 7th Math, Donovan Polk, Algebra - MS, 1st Place; Ali Rezk, Tower – MS, 2nd Place; Myah Robinson, Algebra - MS, Aubrey Surgers, Pre-Algebra, 3rd Place; and Siomares Villegas, 7th Math

Lyndsay Barnes, Quiz Bowl, 1st Place; Lamonte Brunson, Chemistry, 3rd Place; Nick Conde, Tower - HS, 3rd Place; Habekuk Curry, Algebra II; Hannah Curry, Algebra – HS; Lambodhar Damoduran, Robotics, 3rd Place; Zipporah Foster, Algebra II; Janelle Ingram, Poster - HS, 3rd Place; R.J. Jackson, Algebra – HS; Diana Lamaute, Quiz Bowl, 1st Place; Gregory Lettley, Quiz Bowl, 3rd Place; Melyssa Minto, Egg Drop – HS; Devin Polk, Quiz Bowl, 1st Place; Kieran Preissler, Pre-Calculus, 1st Place; Chastiny Reid, Algebra – HS; Omar Rezk, Chemistry, 3rd Place; Gaby Rupprecht, Biology, Keith Sims, Tower-HS, 3rd Place; Quentajia Small, Egg Drop - HS, Sherika Thorpe, Poster - HS, 3rd Place; Zaysha Tyson, Poster, 3rd Place; and Justin Witherspoon, Chemistry, 3rd Place



UNC Chapel Hill 2011 NC-MSEN State Team

FIRST Team# 3331 Tarheel Robots



The Regional NC FIRST Robotic Competition was held April 7 – 9, 2011. Tarheel Robots finished 26th out of 52 teams. The objective of the competition “Logo-Motion” was for an alliance of three teams to place as many inner tubes in the shapes and colors of FIRST logo and place them on a pegged wall in the correct order. At the end of the match, robots can deploy a mini-bot to climb a pole for additional points.



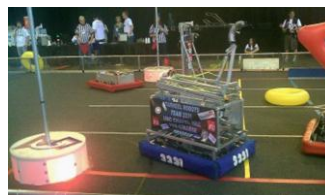
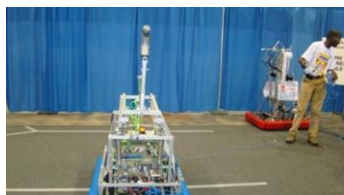
Woodie Flowers



Students and mentors in the pit



Robot



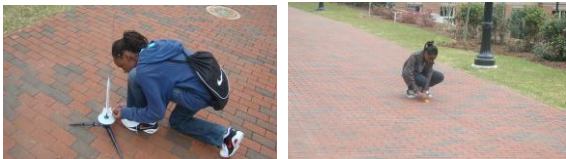
Robot on the Field

FIRST Team Members – Calvin Affleck, Lyndsay Barnes, Jean Christian Barry, Adam Belcher, Lamonte Brunson, Lambodhar Damoduran, Asia Dillard, Savannah Jackson, RJ Jackson, Emmanuel Johnson, Diana Lamaute, Matt Lebedev, Omar Rezk, Keith Sims, & Quentajia Small. Yellow highlighted = SPACE students and Blue highlighted = PERSIST

NASA SPACE

SPACE students rotated with the high school Saturday Academy. The students built rockets, continued to work on their CFNC accounts, calculated the angles to make a kite and explored the ICAN Space website. Students were encouraged to participate on ICAN on their own.

SPACE students also participated in Science Decathlon, FIRST Robotics and State NC-MSEN Day.



NASA SPACE Students in action

P.E.R.S.I.S.T.

PERSIST students have been working on their post high school plans. The plans as of now are -

- David Agudelo-Frankel, UNC Chapel Hill, Business
- Hannah Allison, UNC Chapel Hill
- Adam Belcher, Central Carolina Community, Radio Broadcasting
- Jenifer Brown, Harvard University, Chemistry
- Patrice Goldman, NC A&T University, Nutrition and Food Science
- Janelle Ingram, Bennett College, Communications and Journalism
- Jarius Jones,
- Sandra Mendoza, Meredith College, Biology
- Jalecia Sherrill, North Carolina Central University, Nursing
- Sherika Thorpe, NC A & T University, Biology



PERSIST Students in Action

Awards Day – May 14, 2011

David Agudelo-Frankel, Adam Belcher and Sherika Thorpe (PERSIST students) served as hosts for Awards Day. Students were recognized for Academic Achievement and for participating in Saturday Academy, Science Decathlon, FIRST and State NC-MSEN Day. Students wrote an essay about their experiences in the Pre-College Program and received an Outstanding Student Award. Special recognition was given to the seniors which are PERSIST students and Lyndsay Barnes (FIRST Tarheel Captain). Lyndsay intends to go to NC State and major in Chemical engineering.



Adam Belcher, David Agudelo-Frankel & Sherika Thorpe

Upcoming Activities

- Got To Be NC
Opportunity for FIRST Robotic teams to scrimmage and showcase robot
May 22, 2011
- Middle School Summer Academy (MSSA)
High School Summer Academy (HSSA)
STEM Academy (For MSSA & HSSA)
June 20 – July 1, 2011
- SCIBLS
July 5 – July 29, 2011
- Camp Invention – NEW!!!
July 25 – 29, 2011

