



CTE News Briefs

June 7, 2017

What's WORKING in Career and Technical Education

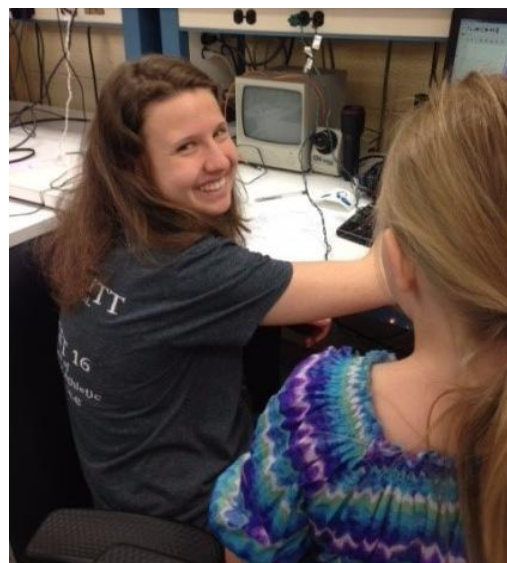
Students Attend "Tech Like a Girl" Workshop

On Saturday, April 22, 2017, students from the Integrated Systems Technology Academy of Engineering (ISTA) at Jack Britt High School attended the "Tech Like a Girl" workshop held at Central Carolina Community College's (CCCC) main campus in Lillington, NC. Participants were introduced to "Spectroscopy", a scientific tool used in real-world applications to distinguish one material from another or to determine the makeup of a substance. Applications such as detecting poisonous gases or early detection of cancer cells are being made possible through Spectroscopy. A new and just released Spectroscopy Educational Kit developed by Ocean Optics Lead Application Scientist, Dr. Yvette Mattley was used by the workshop participants. Dr.

Mattley led the workshop with the assistance of a few CCCC Laser and Photonics Program students and Jack Britt students Kyla Brown (on left) and Isabelle Karis (on rt). Isabelle, a Jack Britt senior, will attend the program in the Fall.



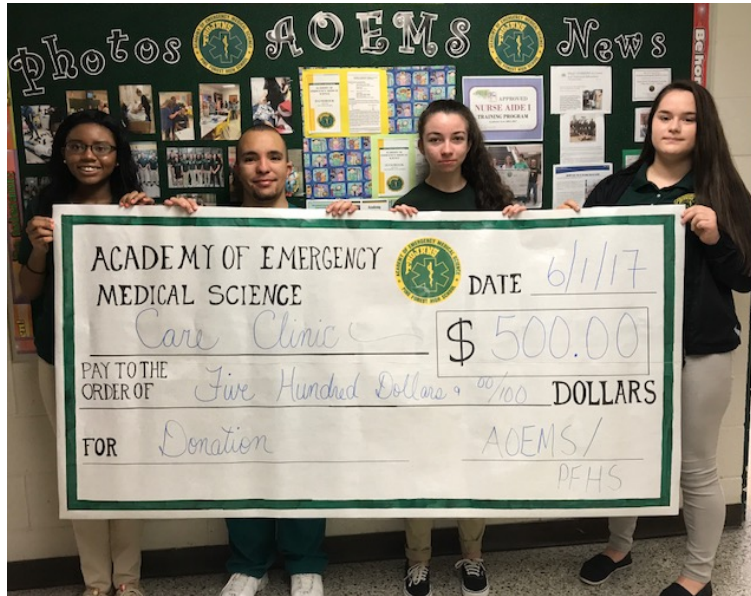
Kyla Brown, a Jack Britt ISTA participant, documents data related to light absorbed by red romaine lettuce during workshop.



Isabelle Karis, a Jack Britt senior plans to attend the program in the Fall.

*Henrietta Jutson, Instructor
Integrated Systems Technology Academy of Engineering
Jack Britt High School*

CARE CLINIC DONATION



As part of giving back to the community, students of the Academy of Emergency Medical Science at Pine Forest High School donated \$500 to the Care Clinic in Fayetteville. We are so proud of these young civic-minded students!

Michelle Quinn, RN, Director
Academy of Emergency Medical Science
 Pine Forest High School

THIRD GRADE MEETS ISTA

Jack Britt High School



3rd Graders from Stoney Point Elementary School and ISTA Students

On May 15, 2017, Mrs. Karis brought her third grade class from Stoney Point Elementary to the Integrated Systems Technology Classroom at Jack Britt High School. The third grade students studied light the week prior to the visit, learning about ROYGBIV (the visible light spectrum) and light sabers. During the visit, the Integrated Systems Technology II Class introduced some basic concepts of light, laser, and photonics along with the 3-D printer and the Pegasus robot through interactive student-made demonstrations. The "ahs" were heard as students observed the laser pointer beam dance to the music or learned about the angles of incidence and refraction. They were able to see light bend with water and look through their diffraction grating glasses to see the rainbow of the florescent lights. One team of students used the homemade telescope from the kit donated by Laser-Tec (the Southeast Regional Center for Laser & Fiber Optic Education) to explain how it was assembled along with the principles involved for it to operate correctly. It was an exciting morning and everyone waved good-bye as Mrs. Karis began arranging her students in a line for the return trip. The students left with a 3-D printed Parrot (school mascot) necklace, diffraction grating glasses, smiles, and memories.

Submitted by Henrietta Jutson, ISTA Instructor
Jack Britt High School

Chip Lucas, Exec. Dir.
Career and Technical Education
Cumberland County Schools
cte.ccs.k12.nc.us

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