Science, Math, and Technology Projects

Casey Beasley, College of Engineering, Technology, and Architecture (CETA)-2014
“Hartford Hand”
Casey will finalize, build, and test a prototype of the first-ever prosthetic hand to feature a fully customizable fine length called the "Hartford Hand". Preliminary drafts of articulated finger design are created as part of applicant's Honor Program Plan of Study.

Mary Arico, College of Engineering, Technology, and Architecture (CETA)-2013, 2011
“Mad about Science Summer STEM Camp”
Mary Arico, assistant professor of biomedical engineering in the CETA School will direct two two-week sessions offering scholarships for 16 middle school girls in the Greater Hartford area interested in science, technology, engineering and math (STEM), who will hopefully continue this interest through high school and beyond. Past student mentors include Ruthanne Doherty, Lydia Weitzler.

“CETA Ambassadors Program”
Ying Yu, assistant professor, electrical and computer engineering in the CETA School collaborated with her CETA colleagues to develop outstanding student ambassadors within CETA by engaging female CETA students, who will be trained to serve as ambassadors. These students will encourage more women to enroll in the STEM fields where they are currently underrepresented.

Tom Eppes, College Engineering, Technology, and Architecture (CETA) and students-2012
“Multiphysics Modeling of Electronic Devices”
Tom Eppes, associate professor of electrical and computer engineering in the CETA School, worked alongside five female engineering students to investigate advanced electronic device cooling. This program is helping to advance women as scholars in the male dominated field of engineering. Students include: Harini Patlolla, Aneela Naz, Stacey Dufrane, Annie Becerra, and Karen Brzostowski.

Edward Gray, College of Arts and Sciences (A&S)-2012
“Safe Water Supply Worldwide”
Edward Gray, professor of chemistry in A & S worked with Sarah Wahab ’14 to obtain a fundamental understanding of the chemistry involved in preserving safe water around the world. Wahab was able to be part of ground breaking research, an opportunity not afforded to many young women in the chemistry field.

Aime Levesque, College of Arts and Sciences (A&S)-2012
“p53 Protection Mechanism”
Aime Levesque, assistant professor of biology in the A & S School, teamed with female undergraduate and graduate students, Levesque plans on answering questions concerning the role of p53 in women. The p53 tumor plays a major role in the development of breast cancer. The results research may help to aid in the development of breast cancer therapies that target cancer cells without harming the healthy cells. Students include Erica Lorenzo ’13.

Bhin Zhu and Betsy Kadapuram, College of Arts and Sciences (A&S)-2011
"Study of Environmental Estrogens in North Branch of Park River"
Bhin Zhu, assistant professor, biology, in the College of A & S and student Betsy Kadapuram examined water quality in different streams of the North Branch Park River watershed for the presence of environmental estrogens that can cause breast cancer and early onset of puberty for girls.
**Ivana Milanovic, College of Engineering, Technology, and Architecture (CETA)-2011**
*NASA Coherent Structures Development Research*
Ivana Milanovic, associate professor, mechanical engineering at CETA and four students from various engineering majors formed a research team. Together, the team engaged in research through NASA's Exploration Development Theme using computational fluid dynamics.

**Evelyn Chong, College of Arts and Sciences (graduate student)-2010**
*“Whether Edible Bird’s Nest facilitates antioxidant function in PC-12 cells”*
University of Hartford graduate student Evelyn Chong, researched whether salivary gland product of the male swiftlet, commonly known as Edible Bird’s Nest, can facilitate antioxidant function in PC-12 cells to reduce harmful byproducts from normal cellular activities.

**Saied Moslehpour, College of Engineering, Technology, and Architecture (CETA), and students-2010**
*“Developing interchangeable SPICE models using VLSI”*
Engineering professor Saied Moslehpour and two student members of The Society of Women Engineers, conducted research to develop complex parts in VLSI (Very Large Scale Integration) and testing them in SPICE (Simulation Program for Integrated Circuits Emphasis) simulation software with other variables.

**Claudia Oakes, Education, Nursing, and Health Professions (ENHP)-2010**
*“Study of Women Aging in Place”*
Health Sciences professor Claudia Oakes, engaged student researchers to study older women in West Hartford regarding the challenges these women face as they strive to continue to live independently.