Making Space for the Future

The New Year has brought a new innovative Makerspace for CETA. One of the largest lecture rooms on campus has been renovated to provide students an opportunity to design and create their own concepts, whether personal interests or for assigned coursework. The United Technologies Hall space is equipped with tools, 3D printers, scanners, and lockers for students to create and store their prototypes. There is a designated area for students to use power tools that will require safety goggles, whereas the rest of the room will be an open collaboration area to allow students to work with light tools, rolling whiteboards, and design stations without safety equipment. The space will be open to students with flexible hours to accommodate their schedules.

This is an exciting new capability for the college, realizing a long-term goal of supporting the hands-on and creative capabilities of our students. The new University Facilities Master Plan shows even more growth opportunities for CETA in the future.

Louis Manzione, Dean
from Gothenburg, Sweden. The team practices 8 hours a week with Coach Stacie Wentz. In addition, the athletes are given workouts to do by themselves.

Johanna's main event is the triple jump. She started participating in track and field in 8th grade as a sprinter, but changed to triple and long jump. She enjoys the technique and strength required for the triple jump. It is similar to long jump with a few extra steps; a hop, step, and jump. The correct footing and sequence is part of what make Konseleus love the event. She has a personal record of 11.98 meters (39.3 feet).

Johanna finds that many of her fellow classmates are interested in where she's from and her culture. She has been introduced to new things that she has not experienced in Sweden such as, english muffins, PB&J, and mac and cheese. She has also had to adjust to the U.S. customary system instead of the metric system. Johanna started learning English in 4th grade, but still has some trouble conveying precisely what she means.

With a goal to work in product development, Johanna wants to become a project leader and learn about economics and the business side of engineering. Her last engineering job was at a Swedish firm, C*PAC. She used a CAD program to make test rigs to hold parts for testing.

She is currently working on her Capstone Senior Project to make tools in space, so astronauts only need to bring a 3D printer on their voyage. The group is making a vice grip with a plastic material using a 3D printer, then will do analysis and testing to see if what they made is a viable product.

Johanna has been enjoying her time here at the University and is looking forward to the coming months, both in athletics and education.

CETA Leadership Society

CETA’s Leadership Society has been a successful and evolving program since it was initially conceived and developed in the fall of 2013 by Dean Hisham Alnajjar, Samuel I. Ward Electrical and Computer Engineering Co-Chair Ying Yu, and Enrollment Manager Kelly Cofiell through a grant funded by The Women’s Advancement Initiative. At the time, it was referred to as the Women’s Education and Leadership Fund (Welfund). The program was founded as a female-only organization with the intent to become co-ed in the future, which they did in the fall of 2016. The goal was to build a solid base of female members as women are often underrepresented in STEM fields. The CETA Student Ambassadors & Leadership Society represents the entire college, not just one discipline/major, and requires a selection process to become a member.

Ms. Julie Spring, The CETA Director of Collegiate Student Services, joined the team of advisors in fall of 2014 and is behind the steady evolution and success of the society. She hopes the continued success in the program will inspire future generations to choose engineering, technology, and architecture when contemplating their future career options.

The Leadership Society meets with local high schools in order to share their passion for STEM, in the hopes to increase awareness and make the field more accessible. The Leadership Society members participate in recruitment events such as Preview Days (Open Houses), prospective students’ luncheons, and receptions interacting with prospective students and families. In addition, our Leadership Society members serve as CETA’s mentors for all incoming first year students. Cultivating this relationship ensures a smoother transition to university life.

CETA Leadership Society

2013-2014 Funded by the Welfund Grant (8 Members).

2014-2015 Funded by the Welfund Grant (16 Members).

2015-2016 Funded by CETA

2017-2018 The program evolved into the CETA Student Ambassadors & Leadership Society with an updated name and revised program mission to include more extensive duties (20 members).

2016-2017 The program became co-ed (19 members).
Leadership Society Program Mission:

- Promote leadership and communication skills of current undergraduates in CETA
- Provide self-development opportunities for current undergraduates in CETA
- Attract quality prospective students to all programs in CETA
- Mentor entering, first year students as they begin in CETA and for the first year
- Build a more welcoming community for all CETA students
- Provide exceptional community outreach for all CETA programs
- Demonstrate equal representation of male and female society members to best portray CETA

Within the Leadership Society is a three member Lead Team that has been selected from the returning members to lead the Society through the academic year. The returning members must also apply for this honor and are selected by the previous year’s Lead Team and the advising faculty and staff.

Andrea is an audio engineering technology senior from Southington, Conn. This is Andrea’s second year on the Lead Team and third year in the program. She is also the secretary for the E-Board for the Audio Engineering Society, who is advised by Assistant Professors of the Samuel I. Ward Electrical and Computer Engineering Department, David Shuman and Timothy Britt.

Kareema is an electromechanical engineering technology junior from Peekskill, NY. This is Kareema’s first year on the Lead Team and second year in the program. She will continue on the Lead Team next academic year. Kareema is a former Shadow Host for CETA, a program where she met with prospective students to take them to a class followed by lunch.

Kelsey is an electromechanical engineering technology senior from Vernon Rockville, Conn. This is Kelsey’s second year on the Lead Team and third year in the program. Kelsey is also active on the E-Board of the new Robotics Club, which is advised by Assistant Professor of the Samuel I. Ward Electrical and Computer Engineering Department Kiwon Sohn. This fall 2017 semester was the start of the first formalized academic year of the club’s activity.

Read more about the CETA leadership team at: hartford.edu/2017changes

For the second year in a row, CETA students placed first in Connecticut’s annual College Tech Challenge. The engineering skills competition included seven teams from colleges and universities across the state. The winning proposal used vertical farming as a platform for reducing waste in the farm-to-table food supply chain.

Electrical engineering majors David Norris ’19 and Eric Sims ’20, computer engineering major Salman Hussain ’20, and mechanical engineering majors Stefan Kelich ’18 and Mark Markiewicz ’18, will share this year’s $5,000 prize for their forward-thinking ‘city farming solution’.

“Essentially, our idea was to create large scale vertical farms in major cities like New York,” says Salman Hussain ’20. “The farms would function exactly how traditional farms would, except that plants would be grown indoors and the roots would sit in nutrient-rich water.” Salman explains that vertical farms stack crops up instead of out. “This reduces the amount of land needed, thereby reducing the cost of food and decreasing the carbon costs of bringing food into the city.”

The students also came up with ways to reduce food waste in cities, including biodegradable plastic bags that keep food fresher longer and a ‘Smart Food Algorithm and App’ to warn users when the produce in their fridge is close to expiration.

Upcoming Events

To learn more about CETA events visit: hartford.edu/cetaevents

If you interested in information regarding the University’s fall semester Career Fair, please contact Ryan Polk: rpolk@hartford.edu 860.768.4168

Read more about the Engineering Skills Challenge at: hartford.edu/skillschallenge
In addition to the faculty and staff who organized, served, and judged the event, we wish to give special thanks to all those who attended and viewed students’ work, and to the following external reviewers who assisted as judges:

**Leda Chiburis**, DXC Technology
**Carol Coppa**, Eversource Energy
**Bernie Criscuolo**, Arrow Electronics
**Steven Goldenberg**, SPG LLC
**Robert D. Gonyeau**, Connecticut Society of Professional Engineers
**Robert F. Hayes**, Bakatronics LLC
**Geoff Lindstrom**, Arrow Electronics
**Ernest Mintel**, DXC Technology
**Charles Pagano**, ESPN
**Dan Patrick**, Wrisley Abrasives
**Chuch Ward**, Stealth Mode Projects

Read more at: hartford.edu/CETAdesignF17
View footage of the CETA Design Expo at: hartford.edu/EXPOF17