



Engineering ACADEMY

News about a College Tech Prep Program from the Six District Educational Compact



All Academy Level I and II students took the worksite trip to Jergens Inc. in Cleveland.

Jason Bateman, Jergens Inc. Project Manager, explains the manufacturing process.



Making a worksite visit to see manufacturer of tooling components

During the fall of 2017, all Engineering Academy students took a worksite visit to Jergens, Inc. in Cleveland, Ohio. Jergens, Inc. is a 75-year-old company that produces tooling components, vises, and other workholding equipment. The company manufactures over 80 percent of its products in its 130,000-square-foot facility in Cleveland.

Project Manager **Jason Bateman** told students about the history of the company and demonstrated some manufacturing processes. After a tour of the facility, the students met one-on-one with company engineers. They asked questions about internships, career paths and the technology used by Jergens, Inc.

The worksite visit was organized by **Gregg Schoof**, Assistant Director of Cleveland State University's Washkewicz College of Engineering, which is an Engineering Academy university partner.



Tallmadge Team members from left, Jack Bartley, Mya Solomon, Devin Pouliot, Gabriel Andrico, Dakota Miller, Barry Li and Nick Sabetta.

Egg Drop bonds new students on first day

On the first day of school in August 2017, new Level I Academy students joined Level II students from their home schools to work together on a team to solve a problem.

Home school teams were given 10 sheets of paper and a meter of tape. They were given 20 minutes to create and design a device that would protect an egg from breaking when dropped from the top of the stadium. The lightest weight device that kept the egg from breaking or cracking was declared the winner.

Congratulations to the Tallmadge team, which won the Egg Drop Challenge.

Mentor Day gives students time for teacher feedback

At the end of first quarter during the fall of 2017, instructors offered Level I students an opportunity to ask questions, give feedback and formulate goals for the second quarter. As part of Mentor Day, Level I students took part in focus groups, where they shared their thoughts about their experiences during the beginning of the school year.

As part of Mentor Day, Level II students met with their technology teachers to gain insight on how to stay on track with their Capstone projects, which must be completed in the spring. Then all Academy students gathered to make lunch on the new 3-D Pancake Bot, which is a fun way to combine engineering and food!

Audio-Technica Award Winners

Five 2017 Engineering Academy completers were presented with the prestigious Audio-Technica Award, which is given to students who maintain a 3.5 GPA in both academics and technology. Students must also maintain a 95 percent attendance rate during their two years in the program and complete a capstone project.



Academy teacher Ed Borsuk and Rich Sprungle, Audio Technica Vice President of Operations, presented awards to Chloe Froning, Roosevelt; Faith Tremmel, Hudson; Thomas Sterrett, Roosevelt; Thomas Borthwick, Stow-Munroe Falls; and Brandon Leap, Roosevelt.



Six District Educational Compact

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Hour of Code at Hyland Software



Level II students back row from left, Ndeye Bassel, Stow-Munroe Falls; Andrew Moore, Cuyahoga Falls; Mya Solomon, Tallmadge; Parker

Lybrook, Stow-Munroe Falls; Simon Lumley, Stow-Munroe Falls; Cory Cremer, Stow-Munroe Falls; Connor Sinning, Stow-Munroe Falls; Mike DeMoss, Cuyahoga Falls; Barry Li, Tallmadge; Alex Cramer, Stow-Munroe Falls; Matt Waino, Stow-Munroe Falls. Front row from left, Zack Rickey, Hudson; and Reggie Davis, Hudson.

In October 2017, Level II students in the Engineering Academy toured Hyland Software in Westlake and took part in Hour of Code, a one-hour introduction to computer science and coding concepts. During the tour of the impressive facility, they learned about the creation of Hyland's OnBase software, saw the modern, open work areas and ate lunch in the employee cafeteria.

Hyland is well known for its progressive workplace atmosphere. Academy members were impressed by both the professionalism and happiness that Hyland employees emulate.

Seeing world of plastics at international conference

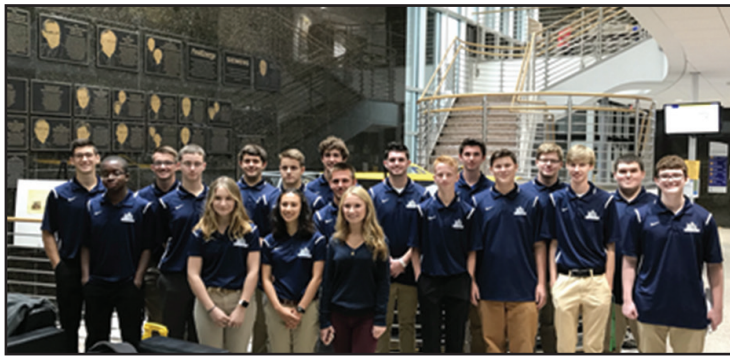
Level II Engineering Academy students took part in STEM-based activities during the recent International Elastomer Conference hosted at the Huntington Convention Center in Cleveland.

Students heard about the business world of elastomers from two speakers who detailed their life experiences in the world of plastics. Then they participated in hands-on polymer experiments using some of the same materials they test during the polymer rotation in the Engineering Academy.

After a session of experimentation and debriefing on polymers, students were given special access to expo floor at the International Elastomer Conference. Here students participated in a scavenger hunt to obtain special stamps from vendors and saw large-scale testing equipment in action. According to students, some of the testing equipment was the same as that used in the polymer lab at Stow-Munroe Falls High School.



From left, Ndeye Bassel, Stow-Munroe Falls; Mya Solomon, Tallmadge; and Mike DeMoss, Cuyahoga Falls, try an experiment at the International Conference.



Visiting UA College of Engineering

In early October, Level I Academy students visited The University of Akron. Students toured the campus and talked with a representative from the Office of Admissions.

In addition, they met with **Dr. Mary C. Verstraete**, Interim Associate Dean for Undergraduate Studies in the College of Engineering. The group toured the Chemical Engineering Laboratory, Robotics Design Lab and Civil Engineering Design Room. They saw where the Concrete Canoe and Steel Bridge teams put together their projects, as well as the Donovan Design Center and headquarters for the students' Formula 1 Car Team.



From left, Quinn Matava and Norman MacKay, both from Hudson, ask Megan Keleman a question.

Academy completer talks about life in college

Megan

Keleman, a 2016 Stow-Munroe Falls graduate and Engineering Academy completer, recently shared

her experiences as a computer science and math major in the Washkewicz College of Engineering at Cleveland State University.

"You are lucky," she told Level II students. "A lot of what I'm doing at CSU is because of the Engineering Academy."

Keleman received scholarships from the University and currently has three jobs, including recruiting for the College of Engineering. She belongs to a sorority, serves as a Student Senator, works as a teaching assistant in the English department and writes for an online magazine. "I am getting paid to go to school," she explains.

Keleman says she was well prepared academically. "College physics and calculus was a review of what we learned in the Academy," she says. "Even in English, I realized that many of my classmates did not know how to write an essay, which we did in the Academy."

College representatives from the University of Cincinnati and University of Toledo engineering schools have visited with Academy students this fall.

According to Academy teacher **Laura Eyring**, "Recruiters are eager to meet and speak with our Engineering Academy students. They know about the high-caliber learning that takes place in the Academy and how that preparation helps our completers transition smoothly into college coursework."