January 2016

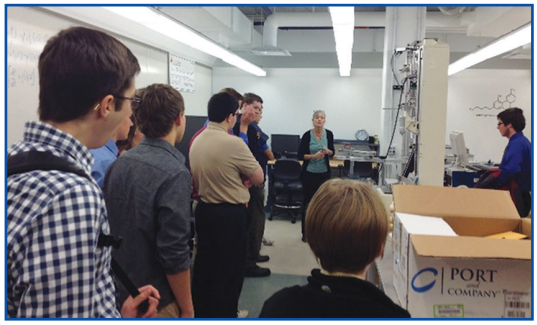
Engineering ACADEMY

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

Walking around the UA campus on a beautiful fall day.

Academy students tour UA's College of Engineering

In November, Level I Academy students visited The University of Akron campus and talked with a representative from the Office of Admissions, as well as staff members from the College of Engineering. They also toured biomedical and chemical engineering labs and the labs in the Student Design Center.



Students visit a biomedical engineering lab at The University of Akron.

University of Akron Future Engineer Awards

Stow-Munroe Falls Level I students **Jade Reese** and **Stephen Morris** received Future Engineer Awards at the Celebrate Success event last May. The students were selected by Academy teachers based on criteria provided by The University of Akron College of Engineering.

Specifically, they were recognized for their perseverance and keen interest in design. The University of Akron's College of Engineering gave them $100 and a certificate.

Trying coding at Hyland Software in Westlake.

Tour of Hyland Software features fun environment

When Level II students toured Hyland Software in Westlake, they were excited to see a company where hard work is rewarded with a fun environment, including collaboration activities and an emphasis on fitness and personal wellness. Hyland was founded in 1991.

Students were given a tour, as well as the opportunity to use Hyland's technology to try an hour of coding. According to a company spokesperson, software and computer engineers are in demand, and the Academy students were able to see examples of the kind of work they could be doing in a few short years.

Students were surprised to see a big red slide installed inside Hyland Software's global headquarters. A former employee completed a tough project and was asked what he wanted as a reward. He chose a slide for employees!

Catapulting to physics knowledge

In October, Level II students showed off their physics knowledge during a catapult competition. Teams of students built catapults out of wood and PVC pipe to test.

Teams competed to test accuracy and the maximum range of their catapults in order to show their understanding of projectile motion. Team winner for maximum range included **Raymond Riter**, Tallmadge; and **Shadoe Beatty**, Tallmadge. Team winner for accuracy included Stow-Munroe Falls students **Jade Reese, Megan Keleman, Kristen Duffy** and **Grace Phillips.**

Six District Educational Compact
Cuyahoga Falls • Hudson • Kent • Stow-Munroe Falls • Tallmadge • Woodridge

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New Teacher joins Academy team:

The Engineering Academy welcomed **David Helmick II** as the physics teacher for Academy students during their rotations at Stow-Munroe Falls High School. Helmick also teaches ninth grade physical science and chemistry. In addition, he is an assistant varsity football coach and off-season lifting and conditioning coach.

Helmick says, "I love science. Understanding why and how things work amazes me. I'm a big tech junkie, and I use technology with a purpose in my life and classroom." He continues, "When I am not teaching or coaching, I personally enjoy gaining knowledge. I try to know enough in each discipline to be dangerous!"

He graduated from Kent State University in 2011 and was a student teacher at Stow-Munroe Falls High School, including teaching physics in the Academy.

Helmick then taught science at Jackson High School from 2011 to 2014 before coming back to Stow-Munroe Falls. "The Academy students are wonderful and are so eager to learn that it energizes me as an educator. Preparing these students for their future is very fulfilling," he says.

Welcome to our Level I students!

Row 1: **Ben O'Daniel**, Roosevelt; **Jacob Black**, Stow-Munroe Falls; **Brandon Leap**, Roosevelt. Row 2: **Stephen Calaway,** Stow-Munroe Falls; **Thomas Sterrett**, Roosevelt; **Jeff Hodnick**, Hudson; **Matt Kloostra,** Hudson; **Noah Copen**, Roosevelt. Row 3: **Carley Bonanno**, Roosevelt; **Chloe Froning**, Roosevelt; **Isabella Kreiner**, Roosevelt; **Amber Pinczes**, Stow-Munroe Falls. Row 4: **Faith Tremmel**, Hudson: **Heather Furbee**, Hudson; **Ana Mathers**, Hudson; **Thomas Borthwick**, Stow-Munroe Falls; **Dakota Bean**, Stow-Munroe Falls; Row 5**: Jaret Filler**, Stow-Munroe Falls; **Michael Dolan**, Roosevelt; **Billy Muncy**, Stow-Munroe Falls; **Joe Gobble**, Stow-Munroe Falls; Row 6: **Dean Anzaldi**, Stow-Munroe Falls; **Hunter Sally**, Tallmadge; **Jordan Davis**, Cuyahoga Falls; **Drew Heller**, Hudson; **Mason Lorch**, Roosevelt; **Braden Nold**, Cuyahoga Falls; **Will Kulis**, Roosevelt; **Matt Perison**, Roosevelt; **Nick Fisher**, Roosevelt. Not pictured: **Jordan Johnson**, Hudson.

Scan this QR code with your smart phone for more information about Engineering Academy.

Welcome Level II students!

Front row: **Emma Beacham**, Hudson; **Megan Keleman**, Stow-Munroe Falls; **Kristen Duffy**, Stow-Munroe Falls; **Jade Reese**, Stow-Munroe Falls; **Grace Phillips**, Stow-Munroe Falls; Row 2: **Brittney Hamrick**, Tallmadge; **Nikita Bastrakov**, Stow-Munroe Falls; **Adam Bockbrader**, Stow-Munroe Falls; **Stephen Morris**, Stow-Munroe Falls; **Marcus Wilde**, Stow-Munroe Falls; **Cynthia Johnson-Smyth**, Stow-Munroe Falls; **Michael Pavlantos**, Stow-Munroe Falls; **Logan Morris**, Stow-Munroe Falls; **Ben Frederick**, Roosevelt; **Collin Whitely**, Woodridge; Row 3: **Joe Rebuck**, Stow-Munroe Falls; **Jason Marmash**, Stow-Munroe Falls; **Harrison Fisher**, Roosevelt; **Anthony Egler**, Roosevelt; **Jacob Wilch**, Hudson; **Alex Perdue**, Cuyahoga Falls; **Shadoe Beatty**, Tallmadge; **Raymond Riter**, Tallmadge. Not pictured: **Jeremy Krainess**, Tallmadge.

Rocket Team tries to qualify for national competition

A newly-formed Engineering Academy Rocket Team meets weekly after school. The 17 members are learning about impulse, arrow dynamic design and teamwork. Small groups are in the process of designing and building their team rockets. Students are trying to qualify for a national competition in April 2016 called Team American Rocketry Challenge.

Seven honored by Audio-Technica

Seven Engineering Academy completers were presented with prestigious Audio-Technica Awards in May at the end-of-year Celebrate Success awards ceremony. Each year, Audio-Technica sponsors the award, which is given to students who maintain a 3.5 GPA in both academics and technology, while also upholding a 95 percent attendance rate during their two years. **Rich Sprungle**, Vice President of Operations, presented the award to **Kendall Furbee**, Hudson; **Matt McDade**, Stow-Munroe Falls; **Ryan Bogucki**, Stow-Munroe Falls; **Lakota Gellner**, Stow-Munroe Falls; **Jeff Natcher**, Tallmadge; **Tim Wiley**, Stow-Munroe Falls; and **Trayce Harris**, Roosevelt.