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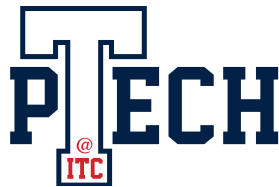
For more information, updates, and event photos visit the CNY STEM website at www.cnystem.com and the Partners for Education & Business Facebook page!

P-TECH Corner

Syracuse P-TECH Program- 11th-Grade

January was a busy month for P-TECH students. A group of 18 juniors were divided into six groups, with each visiting a business that employs careers in or related to Mechanical Technician or Electrical Engineering Technician, which are the career pathways these students are following. The small group sizes afforded each business with the opportunity to make the experience more personal and tailored to the students' future careers. Thanks to the host companies:

- Nixon Gear/Gear Motions
- Berry Plastics
- Empire State Container
- Dupli Envelope & Graphics
- Allen Tool Phoenix
- INFICON



Syracuse P-TECH Program- 10th-Grade

P-TECH sophomores aligned with their Career Coaches/Mentors on January 31st to compete in designing and constructing a "roller coaster" per specific stipulations. Students were divided into 11 teams and used teamwork, communication, and problem-solving skills in addition to a basic understanding of kinetic energy and momentum to build a "track" using only foam pipe insulation and tape. The projected outcome was to have a marble travel through the tubing in the longest measured amount of time. Congratulations to 1st place Team 3, who was supported by their Career Coaches CoriRose Schroer from Ephesus Technologies and Greg Miller from Liftech.

Syracuse P-TECH Program- 9th-Grade

The 9th-grade P-TECH students competed in a "Gumdrop Bridge Building Challenge" on January 27, 2017. Representatives from **Ephesus Lighting** were at ITC for support and judging. Each team of students was given toothpicks and a box of gumdrops. Teams worked in groups to design and build a bridge that required it to span a distance of 8 inches between two tables. Each bridge was tested to see how much weight it could hold. The winning team's cup held 435 grams while suspended from the bridge. Thank you Ephesus!!!!

Auburn P-TECH Program- 9th and 10th Grade

On January 20th, 2017 Auburn High School hosted a Career Coaching event at the school for both 9th and 10th-grade P-TECH students. The project was to create "tables" out of 10 sheets of newspaper and 6 feet of masking tape. The goal was to see which team's design could hold the most books. The winning group's table held 17 text books before crashing to the floor.

Thanks to Career Coaches for their support of the P-TECH Program:

- Ted Deforest, Nick Johnston, & Sriraj Patel from Currier Plastics
- Tom Herbert from Bo-Mer Plastics
- Ed Onori from Beardsley Design
- Lydia Patti Ruffini from Xylem
- Erin Tones from Sunoco.



We are always recruiting more career coaches to make these events the best possible experience for students. To join this effort to mentor/coach students, contact Meghan McBennett at mmcbennett@macny.org or call (315) 440-4937

14 Companies Hosted 230 students for CNY STEM Job Shadow Day Tech Sector Group Is Building Relationships with Future STEM Workers

Partners for Education & Business, Inc. (PEB), partnered with 14 business members of the Technology Sector and the CNY STEM Hub, coordinated the first CNY STEM Job Shadow Day on February 2nd. Over 230 students and teachers from 14 local schools and programs spent several hours visiting local businesses with the goal of learning about STEM careers by observing jobs being performed in the workplace. The companies opened their doors to student groups that had been previously “matched” to their business by students’ career interests.



Students from Bishop Grimes visited United Radio and learned about IT, software development, and how they repair drones.

The central agenda of the STEM Job Shadow Day included providing a history of the company and explanation of the products/services they offer; jobs/careers offered, individualized tours of several departments or stations; interviews of staff by students; and STEM-based projects, demos, and activities. Each business also customized their group’s visit - some providing each student with a mentor, some including students in a sales meeting/sales calls and others providing a panel of young professionals to offer guidance and advice on “how to stand out” to employers.

Through a compilation of evaluations completed by the students, we can report that:

- 71% stated that they are now more motivated to pursue a career in a STEM field
- The most important factor in preparing for their future: 26% stated EDUCATION; 13% stated BUILDING SKILLS; 11% stated INDUSTRY TRAINING; 29% stated PERSONAL EFFORT; and 21% stated ALL OF THE ABOVE
- 85% stated that the CNY STEM Job Shadow Day was EXCELLENT or MORE THAN SATISFACTORY

The Technology Sector companies that made this day possible include:

Anaren	IV4	Schneider Packaging Equipment
Anoplate	King + King Architects	SIEMENS
C&S Companies	Manth-Brownell	SRC, Inc.
ICS Solutions	National Grid	United Radio
GE Inspection Technologies	Plumley Engineering	

PEB coordinates several career-focused events throughout the year including Manufacturing Careers Day (October), Law Day Career Fair (April), and now CNY STEM Job Shadow Day (February). If you’d like to learn more about any of these or other initiatives, please call PEB’s office at (315) 448.1012 or send an email to Joe Vargo – joev@macny.org or Kathy Birmingham – kathyb@macny.org



Above: Schneider Packaging Equipment hosted students from the Syracuse P-TECH Program, showing them the robotic equipment that they design for their customers globally.

Right: Manth-Brownell employee displays to Henninger H.S. students some of the machined parts that the company designs, mills, and finishes for their clients.