

**MFG Day 2017
Exhibit Descriptions**

Company Name	Booth Description
1. Acutec Precision Aerospace	unavailable
2. AirBorn	This booth will feature mockup of Hellfire munition that contains AirBorn product plus an interactive basic electrical connection game as well as graphic displays of military, medical and industrial products that contain AirBorn material.
3. American Turned Products	The booth will explore setup, step by step manufacturing of a specific part and use of computer with interactive screens for students and attendees to watch the processes of several different machines.
4. BASF Corporation	An engineer will perform hands-on experiment with silica and absorbency and demonstrate the various ways silica can be used.
5. Ben Franklin Technology Partners	The booth will display various manufacturers in the area, along with a largescale TV display designed to engage students to talk about the various technologies and manufacturers in the region. Several clients also will present during the day to showcase their product lines.
6. Channellock, Inc.	Display will include various hand tools manufactured in Meadville, PA plus some at various stages in the manufacturing process, along with 3D models.
7. Corry Manufacturing Company	This booth will feature a PowerPoint presentation, along with sample parts CMC manufactures and company literature.
8. Cumulus Media/Z102.3	Z102.3 will have a vehicle inside the Exhibit Hall playing music. Eric Taylor will emcee. The Vibe will have its H3 Hummer at the entrance of the Convention Center greeting students with music.
9. Custom Engineering Co.	Display will consist of banners, video monitors and handouts. The booth will be manned to answer questions and provide information.
10. Eastern Alliance Insurance Group	unavailable
11. Edinboro University	Booth will feature virtual reality glasses and demos with high- volume student interaction plus Segway demos
12. Electronic Communications Services, Inc.	This booth will allow student and adult guests to see the newest telecommunications technology available for all aspects of business - from the main phone answerer, a worker out on the floor of a manufacturing company, to an employee traveling or a CEO. Firsthand use of phones, cordless accessories, conference units and other applications will be available.

13. Erie Institute of Technology	Booth will consist of a banner with the school logo, along with several table-stand display boards. Also will feature brochures describing the training programs offered. Additionally, several small items made by EIT students (from various departments) will be showcased.
14. Erie Press Systems	Feature 3D models of the company's process plus a couple of free standing posters of presses they have designed and built for customers. A laptop will stream some of the manufacturing processes of their presses they have built for customers. Students will be able to speak with members of EPS engineering team that have designed the presses.
15. Erie Sand and Gravel Company	The display will contain a sand and stone sample along with sieving equipment and a PowerPoint slide how. Exhibit will provide students information on how the company produces their sand and product distribution from their dock. The stone brought to their docks and their sand is used for construction of state, commercial and residential projects. During the winter months, the company performs maintenance on some of the Great Lake vessels.
16. Erie School District/Lincoln Welders	unavailable
17. Erie Strayer	Display will feature a concrete batch plant model. Guest will discover how plants are manufactured and setup while looking at a scaled down model.
18. Eriez Magnetics	ERIEZ will display a variety of its magnetic separation and detection equipment, including a lift magnet, pulley magnet and metal detector. Students will be able to feel the holding power of their magnets and see how a metal detector works. They have a touchscreen media center with photos and videos.
19. Eriez Magnetics Demo Truck	The exhibit will display various functional products manufactured by Eriez for students and adults to touch and feel. Guests will be able to feel the pull strength of rare earth magnets, observe magnetic conveyors in action, and see videos of Eriez products in real-world applications.
20. FARO Technologies Inc.	The booth will be interactive with a FARO laser scan arm. Students will be allowed to laser scan object (on their hands for fun) and play with factory metrology to learn new ways to measure data, comparing back to CAD and creating reports. A laser projector or Freestyle Scanner will be present as well.
21. FIRST Robotics Team 291 (CIA)	The FIRST Robotics Competition is a collaborative program that pairs high school students with mentors from industry and academia to tackle the challenge of designing, fabricating, assembling, and programming a robot that plays a game designed by the national FIRST organization.

	Team 291 is proud to be one of the teams in that competition.
22. Gannon University (1st Spot)	This booth will feature the following items and provide a brief demo: Printed circuit board (PCB) maker and a brief demo of PCB fabrication, mission-accomplished high-altitude/near-space ballooning payload (1 x 1 x 1 ft.) with all internal electronic components exposed. 2017 Solar Eclipse ballooning equipment featuring a) a ground tracking system with electronic components and three directional antennas installed (a dish antenna in the center and two additional yagi and pad antennas on its "wing"); b) payloads for video streaming, still image transmission and Iridium-based balloon tracking, and RF- and Cellphone-based balloon tracking.
23. Gannon University (2nd Spot)	Students will have direct experience of the one of the hallmarks of the fourth industrial revolution (Industry 4.0), which is the coexistence and cooperation of robots and humans within the same working environment. They will see how the barrier and complexity to man-machine communication is eliminated as minimal programming knowledge is needed to require a robot to perform a task. The students will have opportunity to define tasks for a robot and will be taught how to make the robot obey their instructions without them having to write a single line of code.
24. Graco High Pressure Equipment Inc.	This booth will feature sample parts valves and fittings.
25. GE Transportation	This booth will demonstrate 3D scanning and printing as well as the use of data and analytics to improve the manufacturing process. Also feature the GE "Brilliant Factory Journey" and how manufacturing is evolving.
26. Great Lakes Metal Finishing	Display will have a screen backdrop with company information, along with sample plated parts for students to pick up and examine.
27. Greenleaf Corporation	Display will contain actual tools Greenleaf manufactures along with a technical professional to explain what they are and how they work. A laptop will be on hand to show videos of their products in action.
28. GUBotDev	This exciting display will consist of more 3D printers, including a 10-foot tall 3D printer that GUBotDev built themselves and a 3D Photo booth so that students can walk in, take a 3D scan of themselves and then print out a 3D model of it. They will be bringing at least 10 3D printers so that the students can print the models of themselves throughout the morning. Other items on display include interactive simulators where students can fly planes and quadcopters, along with their

	drone racing simulators so that students can see what it is like to fly.
29. Harbor Creek Robotics Club (HCRC 2544)	This booth will consist of informational fliers for students interested in robotics, as well as a display of HCRC robot from the 2017 year. Guests will be able to speak with students from our team, as well as see how our robot was built, programmed and drives. Students from other schools will be able to drive the robot under controlled conditions, along with examples of the Lego robots for students to see. The display will transition a little for the manufacturers. HCRC students will be available to answer questions about why local manufacturers should support local robotics and explain the skills they receive from robotics, as well as how the program has interested them in STEM fields.
30. Howard Industries	This display will have a game for the students to play that involves the assembly of signage extrusions. The game will be similar to that of the classic game "Perfection." They will also have a disassembled sign for the students to assemble and learn how to utilize extrusions to fabricate signs. Also will include HI brand new Pedestrian Crossing Safety Units.
31. Industrial Sales & Mfg., Inc.	This booth will display advanced manufacturing at its finest with parts made by ISM.
32. Iroquois FLL Robotics	The booth will include a vertical display explaining Iroquois' Robotics team, a small 2 X2 board with robot for demonstration and a flat screen display with a video of the competition.
33. JBM Technologies	This booth will feature a 3-D printer, along with a Robo Bots Arena.
34. Junior Achievement	This booth will present a game using a blended model utilizing a projector and laptop. Students will see "card" on the screen of a product and be asked to match it to the country it is manufactured in.
35. LORD Corporation	Booth will display a moveable helicopter rotor, sample parts manufactured by LORD, raw materials for rubber, and a 3D printer to demonstrate how the technology is used in manufacturing.
36. MacDonald, Illig, Jones & Britton	unavailable
37. MBA Booth	Display will include the Manufacturer & Business Association's American Manufacturing Tribute Bike along with a sign that names all of the manufacturers that contributed parts to making the bike. A trivia challenge is also being conducted with students that will require them to go around to the exhibits and answer the questions.

38. MBA Marshmallow Challenge	Students will be able to compete in the “Marshmallow Challenge” where teams compete to build the tallest structure to support a fluffy marshmallow. The building materials are unconventional. Up to six teams will compete at once.
39. Widget Financial	Photo booth
40. McDowell High School	This booth will display a 3D scanner, 3D printer and a remote-controlled snow blower/mower.
41. McInnes Rolled Rings	Booth will include a video display monitor showing the process of making rings, plus handouts, actual small rings and giveaways.
42. Micro Mold and Plastikos	Display will have sample parts manufactured at their facility for students to hold and examine. A “Find the Defect” game will be conducted to allow students to see the difference between a good and a bad part (highlighting their quality department). A microscope will be provided to allow students to examine some of their smallest manufactured parts. A TV monitor will be running a video that highlights the facility and help students understand exactly what they do.
43. Morris Great Lakes	This booth will feature a “PC Based” CNC control that guests can see and touch. This display will show students that running a machine is as easy as playing a video game and explain “What working in a Factory” really means.
44. National Fuel Gas Distribution Corp.	This display will have a natural gas vehicle with complimentary literature and banners. Students will be asked to complete three questions relative to the natural gas industry for a chance to win beats headphones!
45. Neff – (Intek Systems)	This display will showcase the quality automation products that NEFF and its partners have to offer. Many products from manufacturers will be available to demonstrate the latest innovations in automation technology, including Collaborative Robots, I/O Link, Machine Vision, Electro Mechanical, Motion Control, Machine Safety, Pneumatics, Vacuum Systems and Aluminum Extrusion.
46. Northwest Bank	Display will include banner-ups and the “Northwest Game of LIFE” – which helps students make good choices and realize how certain choices affect their lifestyle.
47. Northwest Industrial Resource Center (NWIRC)	unavailable
48. Northwester PA Chapter National Tooling & Machining Association (NWPA NTMA)	unavailable

49. Penn State	Display will contain state of the art equipment to engage K-12 students in the STEM careers. Equipment could include 3D printing, interactive coding, circuitry and more. On display will be their award winning "SuperMilage" vehicle along with student team members to answer questions.
50. Precision Manufacturing Institute (PMI)	This booth will feature a Fanuc Robotics Arm.
51. Prism Plastics	This booth will feature a PowerPoint presentation on injection molding, along with plastic parts on display with literature.
52. Process and Data Automation	This booth will feature portable units that will allow students to control speed of motor using PLC.
53. Reddog Industries/PHB Inc.	Display will consist of informational banners, actual manufactured parts along with photos of manufactured pieces. A video highlighting our manufacturing plants be running.
54. Rehrig Pacific Company	Display will consist of products they manufacture to talk about injection molding.
55. Ridg-U-Rak, Inc.	This booth will feature a visual media showcasing products with student engagement.
56. Society of Maintenance and Reliability Professionals – Allegheny/Appalachian Chapter	This booth will provide information on membership benefits, scholarships and certificates.
57. Steel Valley Authority Strategic Early Warning Network	This booth will build balloon rockets and race them and feature manufacturing silly putty.
58. Team Hardinger Transportation	unavailable
59. The Matric Group	This exhibit will have a backdrop detailing the company along with displays of electronic circuit boards. Students and guests will be able to get a detailed look at the products made as a contract manufacturer and how they power a wide array of products in a variety of markets.
60. The Proud Company	This booth will feature two collaborative robots - MIR a mobile industrial robot, driving around autonomously, and Sawyer, the one armed manufacturing robot. Guests can interact safely with both.
61. Waddell & Reed Financial Services	This booth is for informational purposes emphasizing the importance of saving for the future.
62. Welders Supply Company	This booth will feature a virtual welder, which allows guests to simulate and welding and provides instant feedback on weld data.