Egg Drop ................. 10 – 11 a.m. and 11 a.m. – noon
Will the eggs survive or will they smash? Watson School students and local youth are invited to attempt to design a container that will protect an egg during a 15-foot drop. Due to the popularity of this activity, two sessions will be held — please only attend one session.
Sponsored by Pi Tau Sigma (National Mechanical Engineering Honor Society)
ITC ES 2010 for building; ITC Rotunda for testing and judging

Bridge Building .............. 10 a.m. – noon
Don’t drop the marbles! Test out your engineering skills by building the strongest bridge out of popsicle sticks and glue, then try and see how many marbles your new creation can hold. The bridge that can hold the most marbles every half hour will win a prize!
Sponsored by Tau Beta Pi (National Engineering Honor Society)
ITC ES 2200

Playdough Create ............. 10 – 11:30 a.m.
Participate in a playdough assembly line. Make and take home your own playdough.
Sponsored by Institute of Industrial Engineers
ITC ES 1106

Scavenger Hunt ............... 10 – 11:30 a.m.
Participants will be given engineering-related hints and clues to collect items for a project you will assemble and take home with you.
Sponsored by Theta Tau (Professional Engineering Co-ed Fraternity)
ITC ES 1504

Arduino Projects Exhibit ...... 10 a.m. – 4 p.m.
Sponsored by Engineering Design Division
ITC Rotunda

Notable Black Engineers and Computer Scientists ...... 10 a.m. – 4 p.m.
An exhibit featuring ten inventors which showcases the significant legacies that black men and women have created in the engineering and computer science fields.
Sponsored by National Society of Black Engineers
ITC Rotunda

SAE Vehicle Display .......... 10 a.m. – 4 p.m.
View the mini-Baja, supermileage and Formula vehicles built by Binghamton students.
Sponsored by Society of Automotive Engineers
ITC Rotunda

Toothpick Towers ............ 10:30 a.m. – noon
Build towers using only toothpicks and marshmallows to build the highest tower possible.
Sponsored by Alpha Pi Mu (Industrial Engineering Honor Society)
ITC Rotunda-COE Link

Amateur Radio .................. 11 a.m. – 3 p.m.
In times of disaster, when regular communications channels fail, ham radio operators can swing into action assisting emergency efforts and working with public service agencies. Amateur radio operators make friends around the world and can even communicate to astronauts on the Space Station. Explore the fun of radio technology and operating frequencies used by ham radio operators.
Sponsored by Watson IT Specialist Robert Mess and Professor Prahalad Rao
ITC ES Hallway near 2200

LEGO® Creationary ............ 11 a.m. – noon
Show off your skills with LEGO®! Come to play a game of Pictionary® using LEGOS.
Sponsored by Engineers Without Borders
ITC ES 2008E

Quad Copter ..................... noon – 1 p.m.
Come and see a quad copter up close and watch it take flight!
Sponsored by Watson Dean’s Office
ITC ES Rotunda

Boat Building Contest ......... 12:30 – 2:30 p.m.
Gain knowledge in the concept of buoyancy by building a boat out of various materials. See which boat can hold the most amount of pennies without capsizing!
Sponsored by the Society of Women Engineers
ITC ES 1106

Mini-Catapults ................. 12:30 – 2 p.m.
Build a mini-catapult and test it by shooting marshmallows into targets.
Sponsored by Mechanical Contractors Association
ITC ES 2010

Wind-Powered Vehicles ........ 1 – 2 p.m.
Learn about the application of engineering design with natural energy. Improve upon pre-made designs of wind-powered cars and race against obstacles to discover the importance of evolutionary design in engineering.
Sponsored by Biomedical Engineering Society
ITC Rotunda—COE Link

Build Your Own Circuit .......... 1 – 2 p.m.
Build a simple circuit from scratch and learn the basics of electricity with a hands-on project.
Sponsored byEta Kappa Nu (Electrical Honor Society)
ITC ES 2008E

Ferro–Fluids and Lava Lamps .... 1 – 2 p.m.
See how a ferro-fluid (a liquid that reacts to a magnetic field) behaves and build a homemade lava lamp.
Sponsored by Society of Hispanic Professional Engineers
ITC ES 1504

3D Printing Maglev Vehicles ...... 1 – 4 p.m.
A 3D printer will be printing out platforms/chassis of maglev vehicles. The participants will then compete with their own designed maglev vehicles from our selection of propellers, motors, chassis and other miscellaneous building tools on a student-built maglev track.
Sponsored by American Society of Mechanical Engineers
ITC ES 2200 for building; ITC Rotunda-COE Link for testing

Ant Robot Demonstrations .......... 2 – 3 p.m.
The winning Ant Robot Challenge team from our Fall ‘14 student competition will be demonstrating their winning robot using a bluetooth module to control a vehicle capable of traversing various terrain and picking up payloads.
Sponsored by American Society of Mechanical Engineers
ITC Rotunda

Bouncy Balls .................. 2:30 – 4 p.m.
Use special ingredients and make your own creative bouncy ball to take home.
Sponsored by Alpha Omega Epsilon (Professional Engineering Sorority)
ITC ES 1504

Zip Line .................. 2:30 – 4 p.m.
Create a carrier that can get the ping pong ball to the bottom of the line the fastest!
Sponsored by National Society of Black Engineers
ITC ES 2008E

Bike Bell Painting ............. 2:30 – 4 p.m.
Personalize multi-colored working bike bells with markers, paint and stickers to put on your bicycle! Let others know you are coming on the road with your own creative design!
Sponsored by Binghamton Bike Share
ITC ES 2010