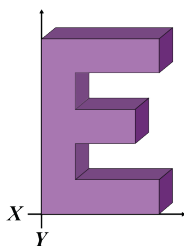




PRESENT

THE 5TH ANNUAL INTERACTIVE



EXPO

ENGINEERING:

SEE IT,

SOLVE IT!



02.09.17

#ISTEMenumclaw

EXHIBITORS

Aerospace Joint Apprenticeship Committee (AJAC)	E2
Learn how STEM is utilized to create, design and develop our local aerospace industry.	
Association of Chemical Engineering Graduate Students + the Electrochemical Society	E38
See how electrochemistry creates thin titanium dioxide films on titanium, why the transparent films look colorful, and walk away with unique titanium jewelry (earrings or rings).	
Bates Technical College	E33
Showcasing projects from different career programs	
Bates Technical College Machinist Program	E17
CNC Bench top Milling Machine and CNC Control Simulator	
Belshaw Adamatic	E9
See the old coveyor vs the new compact model and taste some donuts!	
Ben Cross Farrier Service	A28
Forging horseshoes and hoofpicks; horse leg bones and a cadaver show how the leg flexes and the angles adjust with weight.	
Black Diamond Elementary 2nd Grade	A30
Lego Architecture StudioA showcasing the use of Lego bricks and related software to explore architectural concepts and models.	
Black Diamond Elementary 5th Grade	A29
The exploration of electricity via the use snap circuits as well as wires, power source and light bulbs.	
Bloodworks NW	A7
Compatibility Testing Transfusion Service	
Boeing	E19
Science of materials, advanced manufacturing technology, engineering of aero/space production.	
City of Enumclaw Public Works	A33
Clover Park Technical College	A10
Photos and examples of equipment that our graduates have produced.	
Country Animal Hospital	E1
Veterinary medicine incorporating anatomy and physiology, pharmacology, technology including imaging, computers, surgical and monitoring equipment.	
Cub Scout Pack 500	E31
Look at different designs of pinewood derby cars and consider weight placement and aerodynamics to see which cars will go faster on the 50 foot track.	
DeVol Engineering	E32
CNC Machining	
EHS Aerospace Manufacturing	E15
Examples of machined products	
EHS CAD & Woodworking	E3
Design and print laser engraved backpack tags on the Versa Laser. Build air powered rockets out of drinking straws, clay and tag board to fly inside with our Air Powered Rocket Launcher.	
EHS Commercial Photography	E11
Use green screen and animation technology to create videos and pictures and send to yourself.	
EHS Culinary Arts Program	E14
The science of baking pretzels or cookies.	
EHS Drama	E12
How we design costumes, lighting, sets, props, and posters for all our plays.	
EHS E-Bike Club	A23
Students have built an electric bike and will have another in process.	

EXHIBITORS

EHS Environmental Science	A32
EHS Graphene Flight Machine See a Graphene flight machine. Learn the science, math and significance of Graphene and how it can be used for technological and engineering advances.	E28
EHS National Art Honor Society and Art & Design Program See how each area of STEM & art are integrated	A3
EHS Physics Checkou the fun science toys that demonstrate properties of physics.	A8
EHS Robotics Class Lego Mindstorms and programming	A17
EHS Robotics Team The Enumclaw Robotics Team is competing in FIRST FTC and FRC. Team members learn how to use mechanical and communication technologies to solve robotic challenges.	A18
EHS SkillsUSA Streetmasters Club	E6
EHS STEM Career Planning Look for STEM careers via career searches on available laptops.	E40
EHS/EMS Coding & Games Games created by students from both EHS and EMS. The Games will be suitable and playable for all audiences.	E27
EMS Robotics A robotics challenge field set-up with our club showing their work with robots.	A20
Enumclaw Fire Dept/KCFD #28	E41
ESD Camp Invention A hands-on STEM summer camp for students. The camp will be at Southwood Elementary in July.	E34
ESD Highly Capable Program I will be sharing and displaying our SNAP Circuits, Q-Bitz, Challenge 24 and Tangrams purchased through the Enumclaw Schools Foundation Grant. Snap Circuits ties to Science and Technology through the understanding of electricity, and the other items tie to Math through order of operations, identifying patterns, and geometry.	A15
ESD Technology Team Current deployment and use of technology to support learning in the Enumclaw School District.	A5
Fred Hutchinson Science Education Partnership How researchers are looking for cures and treatments for cancer and related diseases, and about the many careers related to life science research.	E39
Green River College We offer a variety of STEM courses, both in Enumclaw and the main campus in Auburn.	A14
Helac Corporation Assemble actuators, operate a robot united with our actuators.	A2
Hill Aerosystems Inc. Learn how engineering calculations, metallurgy, metals preparations and finish coatings are used in aerospace development.	A13
Institute for Systems Biology Become a citizen scientist and participate in sustainable agriculture research! Explore a functioning aquaponic system and answer questions for the chance to win a very special prize!	E22
Kibler elementary Showing a range of activities displaying interactive science concepts. Robots. Animation. Electricity. Matter.	E18

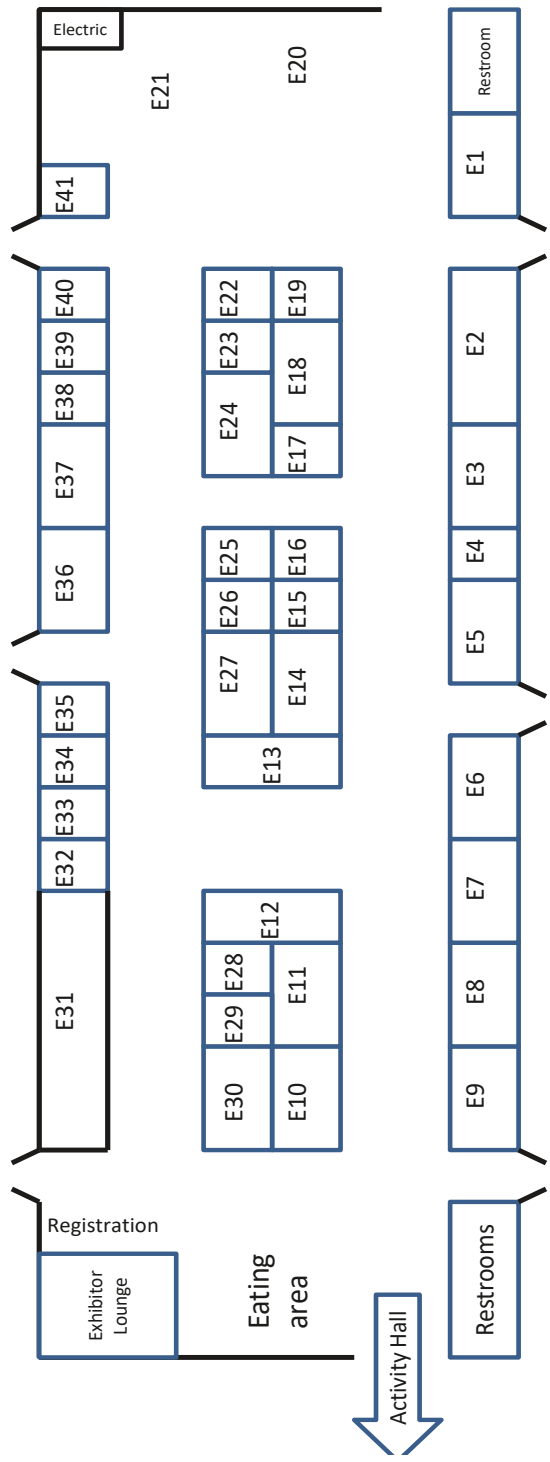
EXHIBITORS

King Conservation District	A31
We promote sustainable uses of natural resources through responsible stewardship. Our vision is to be recognized as a leader in achieving community based stewardship of lands within the District, with economically and environmentally sustainable working lands, vibrant agriculture, and technically sound land, water, and habitat stewardship embraced by all citizens.	
King County Library	E13
Have you ever seen a square bubble? Not only will you see one, professional entertainer and two-time Guinness World Record Holder Louie Foxx will teach you HOW to blow a square bubble! Have you Ever seen a paper fan shaped like a thanksgiving turkey, accordion and salt water taffy? Louie will demonstrate how and help you learn to change a simple paper fan into tons of unexpected shapes!	
King County Stormwater Services	A22
Explore the tools we use to look for high levels of bacteria in stormwater systems which flow to natural water bodies.	
LeMay - America's Car Museum	E21
Powerful Propulsion: Learn about how vehicles are powered and consider the energy and technology behind our choices. See samples from the Museum to spark your creative learning.	
Magic Strings	E8
Create instruments and demonstrate how differences in sound and pitch vary using an oscilloscope, tuners, and various materials.	
Museum of Flight	A27
Lego robotics	
Nether Industries	E5
Welding stainless steel for food processing equipment.	
Orion	E16
Hands on assembly focused booth. Hydraulic pumps and other aerospace parts to work on assembling.	
Pacific Metallurgical Inc	E25
Use of instrumentation that shows how temperature is tracked during heat treat process	
Pacific Science Center	A25
How slow can you go! Roll a ball down a ramp as slowly as possible.	
Pierce College Science Dome	E20
A digital planetarium with hands on activities.	
Puget Sound Electrical JATC	A16
Electrical Apprenticeship Program. Our students utilize high level math, and spatial relationships both in school and at work.	
Skills Inc.	A24
See a variety of crafted parts and design schematics, and an interactive demonstration on the physics of flight.	
Southwood ES Quest	A26
Students sharing their STEAM projects.	
St. Elizabeth Hospital	E24
Learn about the amazing function of the placenta! Sometimes called the "tree of life" learn how this "disposable organ" brings life to babies. Real placenta specimens on display.	
STEAMboat Studio	E8
Learn about circuits while making a light-up LED greeting card.	
Sunrise Elementary 4th Grade	E37
"Could a Volcano Pop up in your Backyard? Why do some Volcano's explode? Will a Mountain Last Forever"	

EXHIBITORS

Sunrise Elementary 5th Grade	E36
We've made volcanoes as a 5th grade science project and we will be erupting them during the expo.	
TMMS Robotics Team	A19
We will be setting up a full size robotics field for a competition with EMS. We need to be next to EMS.	
Usborne Books and More	A4
Showcase of STEM books with an activity from one of the Science books.	
UW Center for Innate Immunity and Immune Disease	A6
Explore immune memory through an interactive game.	
UW Clean Energy Institute	E30
"Racing with the Sun"-Solar panels that students can attach to cars and race on the track with the "sun" powering the cars. Solar car bodies and an assortment of solar cells for kids to assemble and race on a illuminated track.	
UW Dept. of Aeronautics & Astronautics	E4
Demonstration of several autonomous robots such as a fish robot, quadrotors, and ground robots. Work directly with the robots to specify tasks and do simple programming with them.	
UW SPACE/Washington NASA Space Grant Consortium	A12
Stop by and spark your scientific enthusiasm with a variety space-related of activities!	
UW The Material Advantage	E26
Vector and Scalar	E35
Try out games and code classes.	
Welsh Commissioning Group, Inc	E29
Check out how an InfraRed camera sees the world, how much Carbon Monoxide (CO2) is in the air, how loud is it?, and other cool tools of the trade!	
Westwood Elementary	A11
Westwood is "Attracted to Science". Come explore the power of magnets and find out how Legos can help children of all ages discover engineering and math concepts.	
WiBotic Inc.	A21
Wireless charging solutions for robots!	
WSU Ask Dr. Universe	E10
Is your cousin a strawberry? Find out in this DNA demo from Ask Dr. Universe and friends at Washington State University.	
WSU Extension King County 4H	A9
Create holograms and learn how light changes as it is reflected or refracted.	

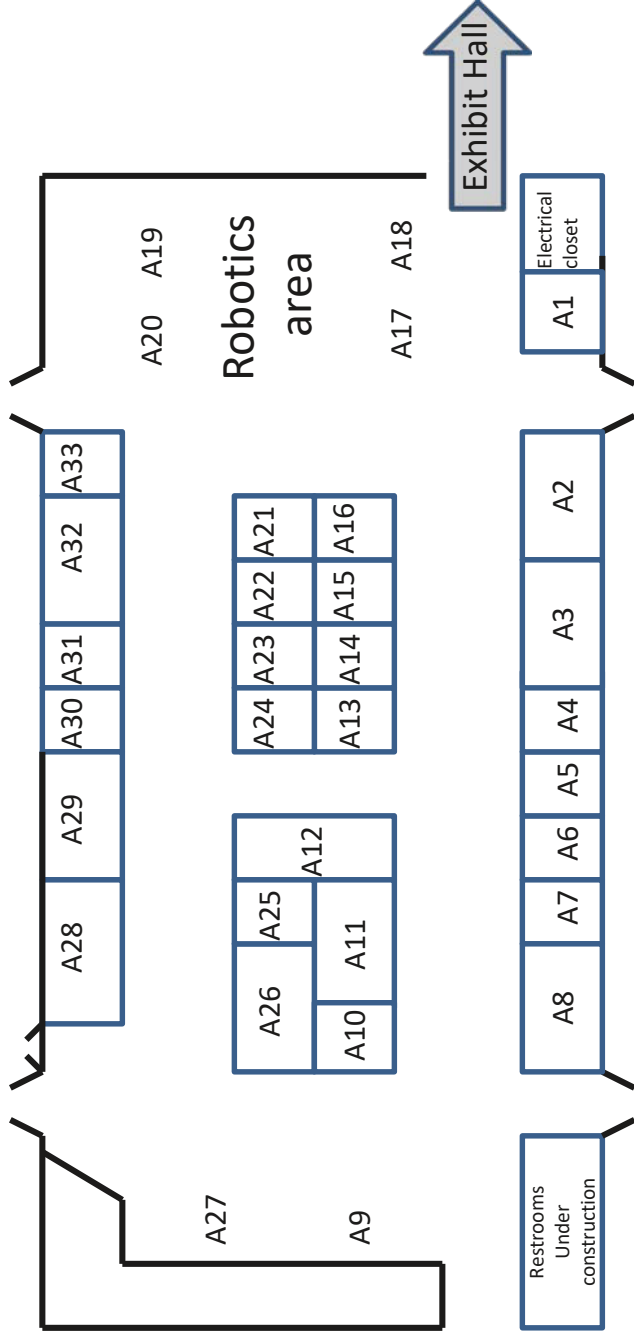
Exhibit Hall



Food Trucks

Main Entrance

Activity Hall



Food Trucks

Restrooms

Restrooms
Under
construction

THANK YOU SPONSORS!

INNOVATORS-\$2500



DESIGNERS-\$1000



Welsh Commissioning Group, Inc.



BUILDERS-\$500



FRIENDS-\$250

**Friends of the
Enumclaw Library**