



Girl Scouts of Oregon and Southwest Washington

STEMapalooza

Presented by First Tech

For more information or to register, visit girlscoutsosw.org.

Saturday, November 14, 2020

9 a.m.	<p>What's STEM Got To Do With It? Explore STEM Financial Careers First Tech Federal Credit Union Join us for this panel discussion where to hear directly from women professionals in the financial services industry regarding their education, career path and how they use STEM in their everyday jobs!</p>
10 a.m.	<p>Learn to Code and Code your Own Video Game Microsoft The root of any software and technology are the languages that we use to tell the computer what to do. These languages – called coding languages – are as diverse as the technology in which they interface. Join Microsoft as our trainers introduce you to coding, and walk you through how to code your own video game!</p>
11 a.m.	<p>STEM Career Panel Women in Science Portland Women in Science Portland is a nonprofit organization dedicated to supporting, celebrating, and advocating for womxn and girls interested in STEM careers. In this panel discussion, our diverse group of panelists will share about their STEM educations and careers.</p>
12 p.m.	<p>Lunch Break</p>
1 p.m.	<p>People, Plants, and Planetary Exploration Evergreen Aviation & Space Museum Ever wonder how we get the fruits, veggies, and greens we eat? In this session you will discover the vegetative and reproductive stages of plants that you use for food! We will be discovering the long history of humans developing agriculture and our current use of food in space! Plus, we'll be looking at the anatomy of an Angiosperm's flower through the lens of a microscope.</p>



<p>2 p.m.</p>	<p>Finding your Place in Space Portland State University Women in Aerospace Find your place in space with Portland State University's Women in Aerospace student group! Learn about different areas of the space industry and what you can do NOW to start your journey. There will be a short introductory video followed by a panel of college and high school students.</p>
<p>3 p.m.</p>	<p>Cybersecurity Career Path Exploration Cambia Health Solutions Women in Information Security The Cybersecurity field has a wide range of careers drawing on skills in business, education, mathematics, and communications. Join us in a panel discussion with 5 women who can describe their personal path to a career in Cybersecurity, sharing how their passions and diverse backgrounds lead them to this exciting field. You will hear from well respected experts who came into the field very different ways and talk about how their passions led them to make a positive difference in the world through a career in Cybersecurity. You may be surprised to find a skill or passion you thought was unrelated is actually a key to success in this field!</p>
<p>4 p.m.</p>	<p>Low Tide Walk Haystack Rock Awareness Program Observe, investigate and explore the habitats at Haystack Rock during a low tide with an expert environmental interpreter. Through this virtual tour, you'll discover the Marine Garden at Haystack Rock is home to many intertidal organisms like sea stars and hermit crabs and the Oregon Islands National Wildlife Refuge provides essential nesting habitat for both shorebirds and seabirds.</p>
<p>5 p.m.</p>	<p>Wild Weather Assembly Oregon Museum of Science and Industry (OMSI) What causes exciting (and sometimes dangerous) weather conditions? How can we track them and protect ourselves? We'll explore and demonstrate the roots of weather phenomena including the origin of clouds, snow, wind, and lightning. Topics include Earth science, meteorology and weather forecasting.</p>
<p>6 p.m.</p>	<p><i>Dinner Break</i></p>
<p>7 p.m.</p>	<p>Studying Physics and the Skies University of Oregon's Pine Mountain Observatory Have a passion for astronomy? Come learn how the telescopes at the University of Oregon's Pine Mountain Observatory, perfectly located atop a mountain looking over Eastern Oregon's high desert, gives astronomers the ability to research and observe the skies. Get a chance to ask Dr. Fisher and students from the University of Oregon what it's like to study physics and explore potential career paths for those that love space science!</p>

Sunday, November 15, 2020

<p>9 a.m.</p>	<p>Exploring the Bottom of the Ocean and Coring with Playdough Oregon State University's Marine and Geology Repository The bottom of the ocean is one of the least explored places on Earth. Marine geologists study the ocean bottom to learn about the history of the Earth. In this activity you will explore what it's like to do science at sea, learn about ways that marine geologists collect samples from the ocean deep, and see some of the samples that have been collected. Then you will experiment with making your own device to sample a model "seafloor."</p>
<p>10 a.m.</p>	<p>A Future in Transportation Women in Transportation Seminar, Portland Learn about different transportation related careers paths that you could pursue in the future. You will hear from several different women about how they got interested in their career and how each of them use STEM for their jobs on a daily basis.</p>
<p>11 a.m.</p>	<p>The Science Behind the Imploding Can Miss Oregon In this workshop, Miss Oregon Shivali Kadam, a chemical engineer, will explain how to use the concept of phase change to make an aluminum can implode—using nothing but heat and ice water!</p>
<p>12 p.m.</p>	<p>Lunch Break</p>
<p>1 p.m.</p>	<p>Moon Madness GSOSW Portland Metro Astronomy Club Do you know there are over 200 moons in our solar system?! That's a lot! But what are moons? Join the GSOSW Astronomy Club as we blast off to take a look at these natural satellites and the planets they orbit. Get ready to expand your horizons and explore the wonders of space with marvelous moon madness!</p>
<p>2 p.m.</p>	<p>The Catalyst for Change Society of Women Engineers, Columbia River Section For more than six decades, the Society of Women Engineers has given women engineers a unique place and voice within the engineering industry. This panel session features women engineers from multiple disciplines who live and work in the Portland-Vancouver area. They will discuss their inspirations, career path, degrees and the day-to-day aspects of their jobs. See how they stay connected with one common goal, to be the best engineers that they can be.</p>
<p>3 p.m.</p>	<p>Working with Wildlife Chintimini Wildlife Center Learn about the many exciting career paths of a wildlife rehabilitation & education center. Join Chintimini Wildlife Center's staff as they talk about what they do, how they use STEM in their jobs, and how they make a difference each and every day.</p>

<p>4 p.m.</p>	<p>Building Leaders National Association of Women in Construction - Portland Do you love building things? Come meet members of the National Association of Women in Construction (NAWIC), a group that works to support the advancement of education and career opportunities in the construction industry. These local construction professionals have experience on wide-variety of projects. You'll learn about their education background in engineering and why they were inspired to pursue a career in construction.</p>
<p>5 p.m.</p>	<p>Dry Ice-Capades Mad Science of Portland & Vancouver Manipulate matter in all of its three states! Freeze water in a matter of seconds, produce dense clouds of vapor and make metal sizzle! Melt metal in boiling water and freeze water with just a breath of dry ice!</p>

Pre-Recorded Activities

<p>Seeds & Seed Saving GSOSW Medford Service Center's Community Garden Learn about Seeds and Seed Saving in the Garden. Starting with a tour of the Medford Service Center Community Garden, we will harvest seeds from available plants, learn about different seed saving techniques, and how to make a DIY pumpkin seed necklace.</p>
<p>Mermaid Tales Oregon Mermaids Meet the Oregon Mermaids, a group of people that share the same passion: instilling a lifelong love of the ocean and its inhabitants in the hearts of everyone they meet. Learn about common types of marine debris that pollute the sea, how long it takes to break down and brainstorm some alternatives to protect the place where they live.</p>
<p>Stroll through the Solar System GSOSW's STEM Program Specialist Shannon Joseph & Buddy Have you ever thought of how big the Solar System is? It can be hard to imagine because it's just SO BIG! Take STEM outdoors and on a hike as you recreate a scale-size of the solar system. Every inch of this walk equals 100,000 miles in space!</p>