Expanding Your Horizons
What’s in it for me?

The choices you make in school today will affect your career opportunities for years to come. Come find out about exciting careers from women who work in science, technology, engineering, and math fields in our part of Washington. Let us show you the possibilities!

Schedule
Saturday, March 4, 2017

8:00 a.m.–9:00 a.m. Registration  SURC*
9:00 a.m.–9:15 a.m. Introduction  SURC
9:30 a.m.–10:20 a.m. Workshop Session A  SURC
10:35 a.m.–11:25 a.m. Workshop Session B  SURC
11:40 a.m.–12:30 p.m. Workshop Session C  SURC
12:45 a.m.–2:00 p.m. Closing session, lunch (provided) and giveaways  SURC

*CWU SURC Ballroom

Central Washington University’s Student Union and Recreation Center (SURC) is located on North Chestnut Street, north of Black Hall. It is the largest and newest building on campus, where the food court and Wildcat Shop are located. The ballroom is on the second floor in the SURC. Parking is available in the lots around the SURC and the Science Building. Buses may unload students in the I-15 parking lot located on 11th Ave, a block north of University Way, and then park in any available lot. Look for the EYH bus sign. Transportation is not provided by CWU.

Publicity Release Details: I give my consent for the CWU EYH Conference to use photos, videos, and/or audiotaape that may include my child for the purpose of publicizing and promoting Expanding Your Horizons and CWU. I understand that the images or voice recordings may be published in newspapers or magazines, on the World Wide Web, or be broadcast on television or radio.
1. A Walk Through the Universe
Cassie Fallscheer, Astronomer
Are you curious about stars, galaxies and the cosmos? Let’s take a trip through the universe and explore the last frontier.

2. Keeping the Lights On
Sarah Davis, Yara Khalaf, Hannah Jimma, Carol Jaeger, Power System Engineers
Ever wonder what it takes to have electricity available at any moment you flip the switch? Come discover the ways electricity is made and how it is delivered to your home or school.

3. Physics in Your Future
Deanne Marshall
Have you considered a career as a Physicist or Astronomer? Join me on a magical mystery tour as we explore career opportunities in the field of physics.

4. Let’s Talk Science
Allyson Rogan-Klyve, Science Teacher
Love science and want to share? Come join us for activities that help communicate important ideas in science and are designed to help people learn. This workshop will be especially helpful if you are considering being a teacher.

5. Migrating to Wildlife Biology
Melissa Babik, LT Murray Wildlife Area Manager
Run, swim, or fly—how would you migrate? Learn why animals migrate and experience the obstacles they face.

6. Fungus Among Us
Heleen Lau, District Botanist (Fungi)
Learn about the fascinating and mysterious world of mushrooms. Using microscopes, observational skills and taxonomic keys, learn how to identify a wild mushroom.

7. Geographic Information Systems—Helping Tell Stories Through Maps
Jennifer Hackett, GIS
Do you enjoy both creative and technical activities? Have you always been fascinated by maps? GIS (Geographic Information Systems) may be the field for you. GIS is one of the most flexible STEM fields—it is used by graphic designers, programmers, biologists, hydrologists, and even Starbucks.

8. Chemistry and Growing Crops: How do they Mix?
Brittany Holmes, Chemist
Most crops are treated with pesticides. These chemicals help farmers and food distributors, but they can also pose a risk to the consumer. To ensure consumer safety, state and federal residue monitoring programs routinely analyze samples for hundreds of chemical residues. In this session, as a Junior Chemist for the WSDA and USDA you will use your critical thinking skills, the scientific process, and analytical chemistry to extract, separate, and identify different chemical residues in a food sample.

9. Career Firefighter…Is it for you?
Melissa Isotalo, Paramedic/Firefighter
Gain some hands-on experience climbing a ladder, extinguishing a mock fire and rescuing a victim by using the tools from our trade!

10. Bug Out!
Amanda Rowe, Entomologist
Explore the amazing world of arthropods and discover how scientists utilize these animals to learn about our ecosystem.

11. Police Line: You Could Cross It!
Jennifer Marghele, Police Detective
Join in on learning what it means to be a police officer. Learn how to catch the bad guys with C.S.I. and how to put the cuffs on.

12. Blood and Guts
Liz Whitaker, Community Health Supervisor/Nurse
Find out about all the cool things nurses can do. Listen to your heart and lungs with a stethoscope, check your blood pressure, try baby CPR, visualize childbirth and explore the amazing human body. Is it gross or is it wonderful? You decide.

13. The Science of Humans
Anthropology Faculty, Cultural Anthropologist/Archaeologist/Biological Anthropologist/Linguist
Anthropology is the study of humans: all humans, in all places, throughout all time! In this session, you will learn about humans from many perspectives, through hands-on activities. Learn how we imagine ourselves in an ancient language or how to identify the fossils of hominids. Discover stone tools used by humans thousands of years ago and find out what monkeys, apes, and other primates can tell us about humans!

14. Rivers, Dams, and Floods
Lisa Ely, Geologist
How do floods and dams affect rivers? Where is a safe place to live near a river? Use the stream laboratory to create flowing rivers, build dams, make floods, and find out what happens!

15. Lava Flow, Volcanic Eruptions, Sticky Magmas!
Wendy Bohrson, Geologist
Simulate an explosive eruption, watch lava flow races, and measure the stickiness of magma with cool, new gadgets. Look at porrima using an awesome new microscope! We will learn why volcanoes erupt the way they do, and compare volcanoes that blast to volcanoes that ooze.

16. Caring for Others Through Nursing
Stacey Botten, Registered Nurse
If you like the idea of caring for other people when they’re sick or injured, then you might be interested in a career in nursing. Learn what a hospital nurse does and see if it’s right for you.

17. Clinical Laboratory
Stacy Olee, Lab Technician
Did you know there are more than 7 billion clinical laboratory tests performed in the United States each year? To many people, what happens in the lab after their blood is drawn is a mystery. If you like science, this is an opportunity to learn how tests can help diagnose illnesses and what it’s like to work in a lab.

18. WILD About Salmon!
Cassandra Weekes, Wild Salmon Recovery Coordinator
Did you know we have salmon in our local streams? Come learn about the salmon lifecycle and how biologists are working to restore our local streams and rivers to enhance fish and wildlife habitat.

19. The Art and Science of Computer Programming
Megan McCollum
Be the mind behind the mechanics as you use both your creative and your scientific side to learn basic programming. How do robots move? How do special effects in movies get created? Computer scientists know the magic gets made!

20. Can You Hear Me Now? Understanding Audiology
Mira Nelson, NW Audiology
Many people have never heard of an audiologist, much less gone to see one. However, audiology has been a developed science since the 1940s. Audiologists evaluate people for hearing and balance disorders. There are many factors that can affect one’s hearing and balance. Come and learn about hearing and balance and the healthcare professional specializing in their evaluation and treatment.

21. What is Assessment? Why it’s Important for your Patients
Cindy Manjarrez, Registered Nurse
We will be talking about various things nurses look at in patients and why. What can a pulse and blood pressure reading tell doctors and nurses about your body?

22. Learning About Trees Through GIS
Michelle Duncan and Cheyanne Manning, GIS Specialists
Take a stroll with us through the CWU campus to see how GIS is used to manage the trees on campus. We will be able to see firsthand how the data is collected and utilized through the use of iPads. It takes a lot of work to maintain a beautiful campus.

23. Furs and Bones—Learning How Biologists Examine Form and Function
Tiffany Bishop, Biologist
Learn how biologists gain information about animals based on clues including the shape of the skull and placement of the eyes, then use your finely-honed skills to determine information about your mystery animal.

24. Food; Your Body’s Fuel
Emily Shaw, Dietitian
Cars run on gas, your body runs on Food! Come learn about Nutrition and how the food you eat affects your body in good ways and bad.

25. Got Lactose?
April Binder, Biologist
People who are lactose intolerant don’t; they are missing an enzyme (lactase) that breaks down lactose sugar because of defects in their DNA. We will show you how scientists study enzymes, genes (DNA) and test for diseases like lactose intolerance.