Science, Technology, Engineering and Mathematics (STEM) will play a major role in many of the career options of the 21st century. Endless possibilities await women ready to take on the challenge! Expanding Your Horizons will show young women in grades 6, 7, 8, and 9 how to prepare for these careers, where the opportunities are, and how successful women are excelling in STEM-related fields today.

In career exploration workshops, participants will find out from successful women why they chose their field, what they do, and what education is required to enter their profession. The young women will participate in hands-on exercises that are fun and help them get a sense of what the careers involve.

The conference is an outreach effort designed to be gender inclusive.

The first Expanding Your Horizons Conference was held in 1976 at Mills College in Oakland, Calif. Since that time, many EYH conferences have been held in cities across the United States. More than 1 million young women have attended, participated in, and enjoyed learning about STEM careers. In Washington state, conferences are held in 15 cities throughout the year.

### CONFERENCE GOALS

#### STUDENTS
- To increase young women’s interest in Science, Technology, Engineering, and Mathematics (STEM) through positive hands-on experiences
- To foster a awareness of the diversity of career opportunities for women in STEM-related fields
- To provide an opportunity to meet female role models who are working in STEM fields

#### PARENTS
- To provide information on options and choices students will face in middle/high school, and how to help you better assist, support, and prepare youth for the future
- To increase knowledge regarding postsecondary options, college admissions, and financial aid information

#### Schedule

**Radical Reactions**

- **8:00 - 8:25 a.m.** Check-in, WAH Foyer
- **8:30 - 9:30 a.m.** Assembly, WAH Corbet Theatre
- **9:45 - 10:35 a.m.** Workshop #1
- **10:35 - 11:10 a.m.** Break/Snack, STU Cafeteria
- **11:25 - 12:15 p.m.** Workshop #2

**Transitioning from Middle School to High School and Beyond**

- **8:00 - 8:25 a.m.** Check-in, WAH Foyer
- **8:30 - 9:30 a.m.** Assembly, WAH Corbet Theatre
- **9:45 - 10:45 a.m.** Parent Workshop, WAH 103
- **10:45 - 11:10 a.m.** Break/Snack, WSC 1st floor foyer
- **11:15 - 12:15 p.m.** Parent Workshop, WAH 103

#### Directions

- Take I-5 exit 82
- Travel east on Harrison Avenue and continue onto W Main Street
- Turn right onto Yew Street
- Travel east on Pear Street
- Washington Hall (WAH) will be on your left and parking is available in any college lot or on the street

#### Presentation

- **8:30 - 9:30 a.m.** Assembly, WAH Corbet Theatre
- **9:45 - 10:35 a.m.** Workshop #1
- **10:35 - 11:10 a.m.** Break/Snack, STU Cafeteria
- **11:25 - 12:15 p.m.** Workshop #2

**Centralia College does not discriminate against anyone on the basis of race, color, national origin, disability, sex, genetic information, or age except to comply with the requirements of other laws or regulations.**

**www.centralia.edu**

**Centralia College**

**600 Centralia College Blvd.**

**Centralia, WA 98531**

**360-736-9391, ext. 358**

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23rd ANNUAL CONFERENCE

SATURDAY, OCTOBER 15, 2016

8 AM - 12:15 PM

CENTRALIA COLLEGE CAMPUS

A day of career exploration in science and math with workshops for young women in grades 6-9 with a special program for parents and educators.

**Presented by**

Pacific Science Center

**Door prize drawing will be held for students and adults!**
Handson workshops provide participants with an opportunity to practice science and mathematics using interactive and fun approaches. Expand Your Horizons! Choose five workshops from the options listed below. You will be assigned to two of your five choices on a space availability basis.

### A. Sparkly Minerals, the Building Blocks of Earth
What is the Earth made of? The building blocks of the Earth are minerals. Nutrients that sustain life, and beautiful gemstones. We will play with tiny minerals. Discover why some rocks are stronger than others, what makes gemstones valuable and how you can identify different minerals so you can find your own gems when you explore nature.

**Kelsey Ward, geologist**

### B. Money Talks
If you're always saying, "Goodbye," In this interactive workshop you will learn the basic cost of buying and helping things save money. Your wallet will thank you.

**Amanda Stevens, credit union community development manager**

### C. The Skin You're In
Learn how the sun affects your skin and how to keep it looking healthy. Learn how to perform facials as a medical assistant. Sample some skin products and have the opportunity to talk about your skin conditions and how they can be improved.

**Jennifer Winter, physician's assistant-certified dermatologist**

### D. "Move" Toward a Career in Physical Therapy
Injured bodies can be restored by physical therapy. Learn about equipment and techniques used to balance and treat muscles, nerves and bones.

**Lacey Ross DPT and Bin Galuma DPT, physical therapists**

### E. C.E.W.
We will be very busy building a simple robot, learning how to code exploring robotics with a robotic arms, computer programming and creating a fun, edible project.

**Madi Carter, Intel maker designer for computer chips**

### F. Wangs!
How do airplanes stay up in the air? Build and launch your own gliders. Explore the principles of flight on your own.

**Dr. Brenda Polite, civil engineering professor**

### G. You've Got to Draw the Line Somewhere
Explore the world of architecture and redesign a house.

**Madrona Labarre DeLong, civil engineers**

### H. An Amazing Profession
Find out what it's like to paint the main street and railroad tracks of a town. Mamie Bonner Roberts and Rousell Case, artists

**Mamie Bonner Roberts and Rousell Case, artists**

### I. Bright Smile-Bright Future
How important is your smile? Come learn how oral health affects your goals and daily life as well as your overall mental and physical health. Then practice “pulling” teeth with dental extraction tools.

**Dr. Karyn Ma, dentist**

### J. The Fire Within
See what it's like to be a firefighter. Learn about the tools and techniques that are used on a daily basis.

**Rebekah Miner, pediatric nurse practitioner**

### L. CSI: Speaking the Dead
Discover who, what, when, how and why of death investigations. Together we will investigate this disease issue and manner of death.

**Dawn Hentsch, chief deputy coroner**

### M. The Other Family Doctor
Find out how to become a veterinarian and what kinds of procedures are available in the field. See how our vets work with animals and get hands-on experience with physical exams, vaccinations, and animal first aid, including CPR.

**Dr. Brandy Mauel Fay, veterinarian**

### N. Whatever Floats Your Boat
Come test your engineering skills—we will build boats out of simple materials and race them down our pool.

**Lina Ua and Yona Pica, civil engineers**

### O. Objection Overruled!
Participants in your own mock trial where you will learn what it takes to present a case in court and how the details come together. Don’t hesitate to state your objections at the opening, don’t make their case!

**Tiffany Owens, attorney, and Brandi Archer, deputy prosecuting attorney**

### P. Anatomy of a Flavor
What is a flavor? Why are flavors used? A flavor is divided into three main parts: flavor components, carriers/solvents and other non-flavor ingredients. Learn what constitutes each and how they work together to create a delicious flavor. Design and develop your own unique flavor to be used in candy or chocolate.

**Dr. Ruby Ngalukong, chemistry professor**

### Q. Snap Crackle Pop
How do you snap, crackle and pop? Experience chemistry while learning the secrets to making scented bath fizzers and other cool stuff.

**Dr. Brandy Mauel Fay, veterinarian**

### R. The Chemistry Behind Your Food: a hands-on approach to self-sustainability
What doesn’t taste to create the food on your plate? Come explore agriculture and the movement that is changing the world, one garden at a time. Experience a hands-on approach to life.

**Dawn Harris, civil engineers**

### S. Where should you go to get a veterinary career? Explore various careers in medicine and how you can become a doctor. Then make your own stethoscope and listen to your heart and breath. Meet some veterinarians from the local community.

**Dr. Brenda Polite, family medicine physician**

### T. Drafting and Design
Explore the world of CAD from simple line drawings, adding dimensions. Learn about 3D solid modeling and see a 3D printer in action.

**Dr. Brandy Mauel Fay, veterinarian**

### Check us out online at: www.facebook.com/EYHLewisCo