

TS/EYH Conference
 Centralia College
 600 Centralia College Blvd.
 Centralia, WA 98531



28th ANNUAL CONFERENCE

A day of career exploration in science, technology, engineering, art, and math with workshops for young women in grades 6-9.

SATURDAY, OCTOBER 21, 2023
7:45 AM-12:00 PM
 CENTRALIA COLLEGE CAMPUS

CONFERENCE GOALS

This conference is an outreach effort to encourage young ladies to enroll in STEAM courses. It is offered in accordance with Federal GEPA standards and is designed to be gender inclusive.

STUDENTS

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

SCHEDULE

7:45 - 8:25 AM	Check-in, WAH Foyer
8:30 - 9 :30 AM	Assembly, WAH Corbet Theatre
9:40 - 10:30 AM	Workshop #1
10:35 - 10:55 AM	Break/Snack, TAC Cafeteria
11:10 AM - 12:00 PM	Workshop #2

ASSEMBLY

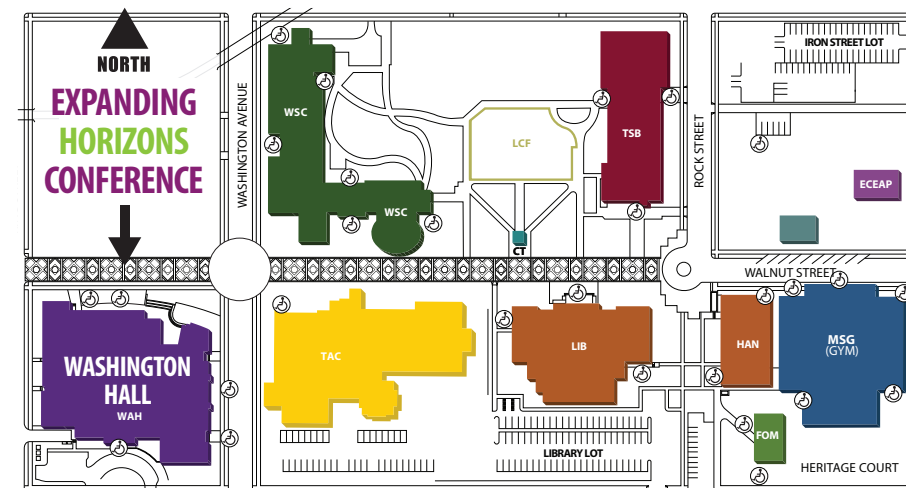
Altered States

Explore the unique properties of solids, liquids, gases and plasmas. Observe how materials change from one state of matter to another. The freezing, flowing and glowing phenomena in this show are guaranteed to be a hit! Topics include states of matter, molecules, energy conversions and safety.

Presented by, Oregon Museum of Science and Industry (OMSI)



Door prize drawing will be held for students!



Directions to Washington Hall, 715 West Pear St., Centralia

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

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 www.centralia.edu
 360-623-8969

STUDENT HANDS-ON WORKSHOPS

Hands-on workshops provide participants with an opportunity to practice science, technology, engineering, art, 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-available basis.

A. An Eye for an Eye

Have you ever wondered how your eyes work? Learn how we see the world around us. You will get to explore the anatomy of the eye with a real cow eyeball dissection.

Dr. Angela Loeb, Optometrist

B. Money Talks

Is your money always saying, "Goodbye"? In this interactive workshop you will learn the basics of budgeting and helpful tips on saving money. Your wallet will thank you!

Amanda Stevens, Investment Advisor

C. The Skin You're In

Learn how the sun affects your skin and how to look for sun damage. Learn how acne forms and how acne medicines work. Sample some skin products and have the opportunity to stitch like a medical student. (Slides of skin conditions will be shown.)

Jennifer Winter, PA-C, Physician's Assistant Certified

D. Hope Lives in the Ocean

Use grow lamps, multi meters and scopes to see how native eelgrass can help us combat climate change. Learn what we can do to help.

Cinde Donoghue, Environmental Scientist

E. A Smashing Lot of Fun!

A heavy handed way to make delicate paintings. Talent not required. Involves using a hammer and picked flower/greenery.

Barbara Burton-Burres, Artist, Camp Host, Farmer

F. City of Lewisville vs. Tottenham: An introduction to becoming a Prosecuting Attorney 101

But, Officer, I'm innocent! Learn the rights of the defendant and the prosecutor's burden of proof. Examine a police report. Determine crimes. Learn the "in's and out's" of preparing for a trial.

Rachel Hunt, Attorney

G. You've Got to Draw the Line Somewhere

Explore the world of architecture and redesign a house.

Roussa Cassel, and Marnie Boomer Roberts, architects

H. Well...What about Medicine?

Should you become a physician? Explore various careers in medicine and how you can become a doctor. Then make your own stethoscope and listen to your heart before and after exercise.

Dr. Brenda Polite, Family Medicine Physician

I. Watercolor Loves to Dance

Explore the behavior of watercolor using different surfaces, tools and substances to provide texture and color variations. Each student will leave with a finished and matted art piece designed with the watercolor "experiments".

Sue Wachter, Artist/Instructor

J. The Fire Within

See what life in the firehouse is like and learn what exciting opportunities exist for women in firefighting service.

Laura Hanson, Firefighter/Paramedic

K. "Being the Voice for the Voiceless"

Discovering the ins and outs of death investigations.

Chelsie Niemczek, Chief Deputy Coroner & Autopsy Technician

L. The Other Family Doctor

Find out how to become a veterinarian and what kinds of jobs are available in the field. See how a vet works with live animals and get hands-on experience with physical exams, suturing, injections, and animal first aid, including CPR.

Brandy Fay, DVM, Veterinarian

M. Born this Way

When Lady Gaga said, "same DNA, but born this way," she was...almost right. Humans may share 99.9% of their DNA, but that 0.1% difference holds the code for everything that makes you unique. For some people, that difference can mean a genetic disorder. Come find out what it takes to be a chemist in a Newborn Screening Lab, learn a bit about genetics, and even make your own DNA model!

Kayleen Slade, Chemist

N. Flavor Spheres

Working in a kitchen means also being a scientist, and modern food science is made by inventive cooks just like you! In this session you will create edible spheres of various flavors using some simple chemical processes to transform liquids into tasty, squishy, colorful "marbles"! Who says you can't have science and eat it, too? (Note that we will be using gelatin, so the spheres will not be vegetarian, but they will be gluten-free.)

Dr. Kelsea Jewell, Biology and Nutrition Professor

O. Can You Save a Duck?

Oil spills can impact a duck's habitat. Test out a few methods to clean up an oil spill and find out what works best to save a duck.

Sylvia Kawabata, EPA Manager (retired)

P. Health, Happiness and Herbal Medicine

Knowing about your own body and how to maintain health is an essential life skill. Find out how to take a few simple ingredients, including beautiful herbs and flowers right from your garden, and make your own healing skin stick to be used on lips or other irritated tissue. Our skin takes in everything we put on it, so it is important to know what you are putting on and in your body, as it can greatly influence your health.

Dr. Alicia Spaulding, Naturopath

Q. Saving Nemo and the Other Creatures of the Sea

Changes to the pH balance of the world's oceans is reshaping ocean chemistry. Conduct your own lab experiment to learn about the impacts of ocean acidification to ocean ecosystems, marine creatures and humans as well.

Michelle Harris, Geoscience Professor

R. Disease Detectives

Do you like a good mystery? Well, an epidemiologist's job is all about solving mysteries, but instead of figuring out "who did it" like a detective would, they figure out "what caused it." Come use your critical thinking and logic to investigate what it takes to protect the public's health and track down an outbreak.

Elisabeth Long, Surveillance Epidemiologist

S. An Arresting Profession

Find out what it's like to patrol the main streets and back roads of Lewis County and learn about the importance of forensic science in law enforcement. Get arrested, handcuffed and finger printed, all in the safety of the classroom.

Julie Jacobo, Police Officer

T. Washington's State Fossil and Gemstone

Discover through hands-on activities Washington's state fossil (the mammoth) and state gemstone (petrified wood). Learn how living trees become stone, and eventually gemstones. See and feel the difference between mammoth and mastodon teeth. Ask a geologist all your questions!

Ashley Cabibbo, Geologic Data Manager

U. Is Tessellation Math or Art?

Tessellation is a form of mathematical art that uses shapes to create a mosaic pattern of mesmerizing visual effect. Using a computer program, you will design your own tessellation and create a beautiful, geometric design.

Roberta Ziegler, Mathematics Professor

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

Click on the QR code to access
a promotional video.



EXPANDING YOUR HORIZONS

REGISTRATION INFORMATION

Fees

The conference fee is \$10 per family and includes all materials and snacks. The fee is non-refundable. **Please make checks payable to: AAUW/EYH.** Scholarships are available to students who otherwise would not be able to attend.

How to Register

Early registration is recommended as workshop requests are filled on a space-availability basis. Complete the registration form (to the right side) and mail with fee or scholarship request to:

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You will receive confirmation by mail and a complete information packet on the day of the conference.

DEADLINE TO PRE-REGISTER IS WEDNESDAY, OCT. 11.

Additional Information

TRIO TS 360-623-8969
or email: ts@centralia.edu



CO-SPONSORS



American Association of University Women

Lewis County Branch

EYH REGISTRATION FORM

Please check all that apply:

- \$10 fee is enclosed (checks payable to AAUW/EYH)
 I have included an optional donation to help fund scholarships for this program
 I am requesting a scholarship to cover my registration fee
 I am a TRIO TS participant and TS will cover my registration fee

If more than one student is attending, please use a separate registration form.

Student's First and Last Name

Student's School/Grade

Mailing Address

City and Zip/Phone Number

STUDENTS ONLY: Indicate your first FIVE choices for workshops by selecting one workshop letter in each of the blanks provided. You will be assigned to two of your five choices on a space-availability basis.

1st: _____ 2nd: _____ 3rd: _____ 4th: _____ 5th: _____

Liability Release (required)

I understand that every precaution will be taken to ensure safety and will hold harmless Centralia College, CC TRIO programs, AAUW-Lewis County Branch or event presenters liable for any unforeseeable accident, illness, injury or property loss/damages that may occur during the October 21, 2023 EYH Conference.

Parent or Guardian (please print name)

Parent or Guardian Signature

Photo Permission (required)

I understand that photographs may be taken at this event, and I give my permission for my child's image to be used for promotional purposes. I understand that the images and recordings may be published in local newspapers, the TRIO or AAUW websites, or used in other marketing material promoting the EYH conference. Names and other private information such as addresses, phone numbers or email will NOT be published.

Parent or Guardian (please print name)

Parent or Guardian Signature

If you need to request a disability accommodation, please contact Disability Services at 360-623-8966.