

# 24th Annual EXPANDING YOUR HORIZONS

FEBRUARY 27,  
2016



A Conference in Science,  
Technology, Engineering,  
and Math  
for Young Women

## EYH Wants YOU!

If you are a young woman in grades 5-8, we invite you to join us for the 24th annual Expanding Your Horizons (EYH) Conference in Science and Mathematics.

EYH is an exciting day of hands-on activities led by women mathematicians, scientists, and engineers. Through these workshops, you will discover that math and science can be

**FUN!**

**Bring a smile, your curiosity,  
and a positive attitude!**

**Admission to EYH is FREE! ...but remember: Space is limited, and you must REGISTER by January 30th.**

**Lunch will be provided, and participants will receive a free T-shirt and tote bag.**

**If space is still available after January 30, you can register at the event. But DON'T WAIT — spaces may be full!**

**TO REGISTER: give your completed registration form to your teacher or contact Mikki Jemin, 575-654-5816 / [maryjemin@yahoo.com](mailto:maryjemin@yahoo.com), by JANUARY 30**

**We will send you a letter in early February confirming your registration**

### Liability Release:

Participants shall remain liable and hold EYH Silver City, New Mexico, EYH Silver City volunteers, and Western New Mexico University harmless for any liability arising from their participation in the February 27, 2016 Expanding Your Horizons Conference and STEM Day for Girls at Western New Mexico University, except injury or damages that may occur because of the sole negligence, or willful and wanton misconduct of the University, University's officers, agents or employees.

### Photo Permission:

I give my permission to use photos or videos that include the above named participant for the purpose of publicizing and promoting future Expanding Your Horizons conferences. I understand that the images and recordings may be published in local newspapers, the Internet, or used in other marketing material promoting the EYH conference at Western New Mexico University. Names and other private information such as addresses, phone numbers, email or schools will NEVER be published.

\_\_\_\_\_  
Signature of parent/guardian      Date

### REGISTRATION FORM

Please fill out form completely. **PRINT CLEARLY.**

Give the completed form to your Math or Science Teacher, or contact Mikki Jemin, 575-654-5816 / [maryjemin@yahoo.com](mailto:maryjemin@yahoo.com), by January 30.

Your Name \_\_\_\_\_

MAILING Address  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name of Your

Parent/Guardian \_\_\_\_\_

Contact Phone \_\_\_\_\_

Teacher \_\_\_\_\_

School \_\_\_\_\_

Grade \_\_\_\_\_ Age \_\_\_\_\_

CIRCLE ONE:

Hispanic    Caucasian    Asian    Other

African American    Native American

Have you been to EYH before?

\_\_\_ Yes    \_\_\_ No

If "Yes" how many times? \_\_\_\_\_

WORKSHOP CHOICE NUMBERS:

1st \_\_\_ 2nd \_\_\_ 3rd \_\_\_ 4th \_\_\_ 5th \_\_\_ 6th \_\_\_

Please list any Special Needs (wheelchair access, hearing/sight impaired, food allergy, etc.):

\_\_\_ I need a vegetarian meal

\_\_\_ I need a vegan meal

## WORKSHOPS TO CHOOSE FROM

- 1. Chart Your Path in the Sky.** The magic and adventure of flying can be yours in many aviation careers. Learn about aircraft basics, flight planning, piloting, air traffic control, weather, and more! *Jane Lucero, Airport Development Administrator*
- 2. Inside a Strawberry.** How small can you go? Extract strawberry DNA — genetic experiments begin with this first step. Do this chemical process using household items! *WNMU Natural Science Majors*
- 3. Open Wide! Doing the Dental Exam and... MORE!** Give a dental exam, use staining tablets to see how clean your teeth are, or use the same stuff dentists use to make dental molds of your teeth. *Dr. Kaiyra Salcido, Dentist, HMS*
- 4. Junior Vet for Your Pet.** Do physical exams on a cat, a dog, and a goat! Learn about diagnostic procedures like reading an ultrasound and taking an animal's blood pressure. *Dr. Deidre Wilmeth, Veterinarian*
- 5. It Seems Like a Simple Thing.** How would you dress yourself or fix a snack after you broke your arm? Learn how occupational therapists help people perform daily tasks. *Darin Finch, WNMU OT Instructor*
- 6. The Amazing Eye.** Did you know sheep eyes are similar to our eyes? Learn about the function and location of parts of the human eye, and then dissect a real sheep eye! *WNMU*
- 7. Rockin' Around New Mexico.** Learn how geologists identify and find ore. Create a geologic map, then drill out and mine an ore deposit! *Bonnie Ertel & Jessica Hobbs, Geologists, FMI*
- 8. Bar Code Bling.** Bar Coding isn't used for just groceries and merchandize. See how Gila Regional uses this technology to assure each patient gets the correct medication. *Emily Warner, GRMC Pharmacist*
- 9. Magnetron Magic.** Learn how the micro-wave works to heat sugars, fats, and water-based liquids. And...can you use the micro-wave to make cosmetics? *Judy O'Loughlin, Grant County Extension Home Economist*
- 10. Tools of the Trade.** Learn how to use some of the tools a doctor uses: Listen to your heart, take your blood pressure, test your reflexes, and more! *Magda Ramirez, HMS Family Medicine Resident*
- 11. Wet and WILD!** Explore the Life Cycle of the Gila Trout! Learn about conservation, water quality, and careers for women in the federal government. *Carolyn Koury & Teresa Smergut, Gila National Forest*
- 12. Capsules, Lotions, "Magic Potions."** Pharmacy fun! Pour it in, mix it up, put it in a bottle... make pills or lotions you can take home. *Barbara Wood, Pharmacist*
- 13. Digging Up Bones of Apes... and AUNTS!** Meet your extinct hominid ancestors, affectionately known as our "Aunts," in a hands-on exploration of anthropology. *Manda Clair Jost, PhD, Professor of Biology, WNMU*
- 14. Never Stop Exploring - Using technology to view your world.** Learn how using applied geography helps people understand the world and design a smarter future. *Kathy Whitman, WNMU*
- 15. What Does a Nurse Do?** Learn nursing assessment techniques using real medical equipment. *Alexis Harsh & Krista Wood, Nursing Professors*
- 16. Rock 'N' Roll.** Learn what rocks and minerals are made of, how to identify them, and how they are used in our everyday lives. *Patricia Frisch, Geologist, FMI*
- 17. Physical Therapy—Your Career, Your Life, Your Health!** Find out if this health-care career is right for you! Test your balance and strength in real physical therapy activities. *Suzanne Thomas, Physical Therapist*
- 18. Meet ALICE!** Alice is FREE 3D software that makes it easy to create animations or games. Learn programming skills and take Alice home with you to continue the fun! *Tanya Rivers, MS, Assistant Professor, Department of Math & Computer Science, WNMU*
- 19. It's ELECTRIFYING!!!** Explore solar energy and why it matters. Create an electrical circuit! *WNMU*
- 20. Stitch It Up!** An introduction to medical suturing and surgical knot tying. Think it's easy? Try it! *Tiffany Kinter PA-C Hms Clinician*
- 21. Chemixtures and Chemysteries!** See what chemistry magic you can stir up. You may dissolve, dilute, amalgamate, & unite molecules! *WNMU*

## CHOOSE YOUR WORKSHOPS

Please choose SIX workshops, but you will ATTEND ONLY THREE. Tell us your choices in order, starting with your favorite. (Choice number six would be your least favorite.)

*We make every effort to allow you to participate in at least one of your first three choices.*

**On Saturday, February 28, arrive at Brancheau P.E. Complex at Western New Mexico University at 9:00am.**

**The conference ends at 3:00pm. Your parent or guardian can pick you up at the Brancheau P.E. Complex at 3:00pm**



**QUESTIONS???**  
**Mikki Jemin 575-654-5816**  
**maryjemin@yahoo.com**