

STUDENT SCHEDULE

8:00 to 8:30 a.m. **Registration**

Cordiner Hall, corner Park & Boyer

8:30 to 8:40 a.m. **Orientation**

8:50 to 9:40 a.m. **Workshop, Session 1**

9:50 to 10:40 a.m. **Workshop, Session 2**

10:40 to 10:55 a.m. **Break, refreshments**

11:00 to 11:50 a.m. **Workshop, Session 3**

12:00 to 1:00 p.m. **Keynote Speaker**

**Turn in your evaluation
and receive a GIFT!**

PARENT/ EDUCATOR SCHEDULE

8:00 to 8:40 a.m.

8:50

Orientation

**Coffee with Keynote
Speaker and
Panelists, followed
by:**

- **Session 1**
- **Panel Discussion**
- **Session 2**

11:50

Break

12:00 to 1:00 p.m. **Keynote Speech**

Space is limited! Workshops are assigned in the order that registration forms are received.



THE WALLA WALLA BRANCH OF AAUW
American Association of University Women
presents



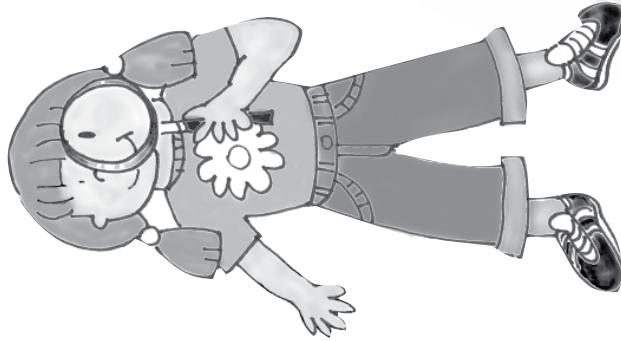
**A Math and Science Adventure
for 5th through 8th Grade Girls**

SATURDAY, MARCH 21, 2009

8:00 am to 1:00 pm

Cordiner Hall, Whitman College Campus

Corner of Park and Boyer Streets, Walla Walla, WA



www.aauw-wallawalla.org

CONFERENCE GOALS

To provide 5th through 8th grade girls with an informal, hands-on experience with careers that utilize mathematics and science.

To provide an opportunity to meet and form personal contacts with women in these exciting careers.

PRE-REGISTRATION REQUIRED

Workshop choices assigned in order received.

Deadlines for registration: Mail by March 16, or register in person at YWCA by Thursday, March 19.

Registration fee of \$5.00 per person.
Scholarships available.
Contact Carol at 509-525-3531.

¿Habla usted español?

¿Necesita ayuda para entender esta forma? Llame por teléfono a Lorena Ault o a Celia Guardado, en la YWCA al 509-525-2570.

Sponsored by American Association of University Women (AAUW), Whitman College, Walla Walla Public Schools, YWCA

STUDENT REGISTRATION FORM

Cut out and return this Student Registration Form with your registration fee. Please print clearly!
See Registration Deadline information. Register early!

Note: Your information will not be shared

Name _____
School _____ Grade _____
Address _____ City _____ State _____ Zip _____
Phone Number () _____ E-mail (optional) _____

I HAVE ATTENDED GREAT EXPLORATIONS BEFORE.

Yes No

1. Students wishing to attend workshops together **must submit their registration forms together and indicate on EACH form that they want to be placed with (friend's first AND last name).**

I want to be placed with 

2. Register early for a better chance to receive three of your choices.

Where possible we group girls by age. **Workshops are for Students ONLY.**

3. Please indicate your top six different choices for workshops. Put each **WORKSHOP NUMBER (#)** in the space provided. You will be matched with the first three available workshops.

First choice: # _____ Second choice: # _____ Third choice: # _____

Fourth choice: # _____ Fifth choice: # _____ Sixth choice: # _____

NOTE: IF you are signing up for workshop number #3 **What Type are You?** you **MUST** have a parent signature here to participate in blood typing.

My child may participate in blood typing. My child may NOT participate in blood typing.

Print friend's name here:

_____ first name

_____ last name

Submit forms together

I HAVE ENCLOSED:

\$5 check

\$5 cash

I've made arrangements for a scholarship
Call Carol Morgan
509-525-3531

Parent Signature _____



PARENT / EDUCATOR REGISTRATION FORM

1. **PRE-REGISTRATION IS REQUIRED.**

SPACE IS LIMITED! Workshops are assigned in the order that registration forms are received.

2. Registration fee of \$5.00 per person covers the cost of materials. For information on available scholarships, contact Carol Morgan by March 19. Call 509-525-3531

E-mail pcmorgan@charter.net

3. **By mail** please enclose cash or a check for your registration fee (made payable to AAUW).

Mail by March 16 to: Great Explorations
Carol Morgan
1765 Gray Lynn Drive
Walla Walla, WA 99362

OR

In person at the YWCA, 213 So. First Street, Walla Walla, through **Thursday, March 19.**

4. Parent attendance is not required, however a parent/educator program will take place at the same time.

Photos taken at this event may be used in future Great Explorations publicity.

Parent attendance at the panel discussion, **The Economics of Education** and the Keynote Speech are encouraged, but not required.

Cut out and return this Parent / Educator Registration Form with your \$5 registration fee. Please print clearly! Note: Your information is not shared.

See Registration Deadline information. Register early!

Name _____
Address _____
City _____ State _____ Zip _____

Phone Number () _____

E-mail (optional) _____

I am a parent I am an educator

Workshops are for Students ONLY.

Parents will not attend workshops.

The parent / educator program will take place at the same time as student workshops.

Parent attendance at the panel discussion, **The Economics of Education** and the Keynote Speech are encouraged, but not required.

I HAVE ENCLOSED:

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CHOOSE YOUR TOP SIX DIFFERENT WORKSHOPS AND REGISTER BY NUMBER

- # 1. Architecture
Go Green and Save Green
Linda Newcomb: Architect
Draw up plans for your own cool living space. Then build a 3-D model of it.
- # 2. Astronomy
Star Light, Star Bright
Andrea K. Dobson: Astronomy Professor
Enter an extraordinary lab, become an astronomer, and cross into the universe of the stars. Get acquainted with these inhabitants of the night sky while the sun shines outside.
- # 3. Blood Banking
What Type Are You?
Donna Wujek and Patrice Moore: Clinical Laboratory Scientists
Put on your lab coats and gloves while you discover what happens to your blood sample in a real medical laboratory. Use a microscope to see your own blood cells. Find out your blood type. (Students who want to type their own blood MUST include written parental permission for a finger stick. See registration form.)
- # 4. Chemistry
Subzero Chemistry!
Karen Smith: Chemist
Just how cold IS cold? How low can you go? These experiments with dry ice and liquid nitrogen are definitely chillin'.
- # 5. Chemistry
All Steamed Up...The Chemistry Behind Gases
Machelle Hartman: Chemistry Instructor
Can a candle and a cup of water become an engine? How can you boil water while it's still cold? Predict what will happen to a gas (or a marshmallow, soda pop, shaving cream, or the space shuttle...) just by using one law of chemistry.
- # 6. Computer Mapping Technology
Around the World in 50 Minutes
Amy Molitor: Assistant Professor of Environmental Studies
Explore the wonders of the world using Google Earth. Fly through the Grand Canyon as if you were a California Condor. Travel along the Great Wall of China as if you were Mulan herself. Create your own fly-over tour of places you dream to go.
- # 7. Dentistry
Open Wide: A Career in Dentistry
Nannette D. Goyer: Dentist
Torn between a career in science and a career in art? Why not both? A dentist is a scientific artist! Join us and we'll show you how to make a good "impression"!
- # 8. Engineering
Gotcha!
Cindy Philbrook: Hydraulic Engineer, Danielle Bolte: Structural Engineer
Is picking stuff up off the floor getting you down? Engineer a handy tool to get off easy on doing your chores.
- # 9. Environmental Science
It was Colonel Mustard in the Conservatory!
Cassie Rothstrum: Environmental Consultant
You are the CSI agent on the scene. Solve the case of water gone bad. Create a plan to catch the contaminating culprits.
- # 10. Fish Biology
Eggzactly
Micki Varney: Fish Biologist
Using scientific tools, inspect and dissect a trout. See for yourself how many eggs a mama fish can have and find out why it matters.
- # 11. Forestry
Food Fight in the Forest
Lisa Naylor: Forester
Trees and bushes don't just stand there! They're in direct competition with each other. Explore their lives in the woods and uncover the forester in you.
- # 12. Genetics
Jumbled Genetics: Who are YOU?
Sue Schulz: Middle School Science Teacher
Why do you look the way you do? What traits did you inherit from your parents? What would an offspring of two "crazy parents" look like? Dare to dive into an adventure in basic genetics.
- # 13. Math
Mind Games
Laura Schueller: Math Professor
Stretch and satisfy your brain solving mysteries old and new. Decipher, then crack, ancient riddles and modern mathematical puzzles.
- # 14. Medicine
Doctor Detective!
Alison Kirby: Physician
Analyze the pieces of a patient's predicament. Unravel the mystery: match the x-ray to the patient.
- # 15. Midwifery
Baby, Oh Baby: Caring for Mothers and Babies
Susan Collins: Certified Nurse Midwife
What does a nurse-midwife do for moms during pregnancy and childbirth? What does she do for newborns?
- # 16. Nursing
The Telltale Heart
Maribeth Bergstrom: Pediatric Nurse Practitioner, Nursing Instructor
Lubdub, lubdub, lubdub... That sound is You! Measure pulse, temperature, blood pressure and more. What is your body saying? Understand some basic tests of health.
- # 17. Nutrition
The Sweet Science of Carbs
Jill Emigh: Nutrition and Chemistry Instructor
Digest the world of nutrition through a look at carbohydrates and Calories. Get a taste for whether marshmallows or bread can contribute to the best body for you.
- # 18. Optometry
"Look Deeply Into Our Eyes..." Cow's Eyes, Model Eyes, Each Other's Eyes
Becky Musick and Angela Ferguson: Optometrists
How do eyes work? Look into each other's eyes using the instruments of optometrists. Have an opportunity to dissect a cow's eye.
- # 19. Photography
Picture Perfect
Kathy Farrell Guizar: Image Management
Like the smile? Hate the zit? Learn some tricks to change how your digital picture looks. Digital Magic! (Digital Mischief...) Having basic computer skills (click and drag) will be helpful for this workshop.
- # 20. Physical Therapy/Occupational Therapy
Hand's Down?
Barbara Smith: Occupational Therapist & Andrea Gass: Physical Therapist
Try your hand at rehab. What can you do for a hand injury? Examine x-rays. Make a wrist splint. Explore electrical stimulation and other therapeutic tools.
- # 21. Veterinary Medicine
Neigh, Moooo, Ruff, Meow....
Andrea Adams: Veterinarian
Meet some of my patients. Examine x-rays and small animal skeletons. Check out the health of a live animal.

**REGISTRATION FORMS AND
WORKSHOP DESCRIPTIONS INSIDE**

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Saturday, March 21, 2009

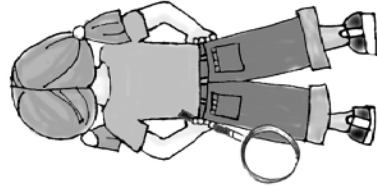
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FOR MORE INFORMATION

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Walla Walla, WA 99362
509-525-3531 or
pcmorgan@charter.net**



KEYNOTE SPEAKER

PEOPLE, COWS, AND CLIMATE

Erika Marín-Spiotta,
Environmental Scientist
Postdoctoral Researcher
University of California, Santa Barbara

Would you like to travel to far away places, speak a foreign language, and help people? A good way to do all of these things, and much more, is to become an environmental scientist.



Erika has traveled to Hawaii, the Brazilian Amazon, Costa Rica, Panama, Venezuela, and Puerto Rico to study tropical forests and the soils below them. Her love of the outdoors and curiosity about how humans have been changing their environment for thousands of years led her to study Biology and Political Science in college. As a research assistant, she fed ants, rode a mountain bike, and learned to dodge seed-throwing monkeys. Next year she is excited to become a professor at the University of Wisconsin, Madison where she will continue to learn and teach students about the environment.

www.aauw-wallawalla.org

PANEL DISCUSSION

For Adults, Parents and Educators

**THE ECONOMICS
OF EDUCATION**

Moderator:

Lori Bettison-Varga, PhD
Provost and Dean of Faculty, Whitman College
B.A. U. of California, Santa Barbara
M.S., PhD (Geology), U. of California, Davis

Panelists:

J. Antonio Cabasco
Chief Admission Officer and Enrollment Manager
Chief manager of financial aid budget and policies,
Whitman College
B.S., Physics, Whitman College
M.A., International Studies (Chinese Studies),
U. of Washington

Debbie M. Moberg-Williams
WSU Extension Director for Walla Walla County
B.A., M.S. Animal Science WSU

Jeanne Ruecker
Guidance Counselor Walla Walla High School
Scholarship Specialist
B.S., Home and Family Education, WSU
MEd, (Guidance Counseling) Walla Walla University

Marika Tomkins
Site Director GEAR UP, Pioneer Middle School
B.A., Latin American Studies, Whitman College



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