



**SATURDAY, APRIL 10, 2010**

**Byrd Biotechnology Bldg.  
1700 3<sup>rd</sup> Ave.  
Marshall University  
Huntington, WV**

**9:00 AM TO 3:30 PM**

<http://www.expandingyourhorizons.org/conferences/WestVirginia/>

Sponsored by the West Virginia Chapter of the Association for Women in Science (WV AWIS) and the MU-ADVANCE Program

The Expanding Your Horizons Conference is for girls in 6-8<sup>th</sup> grade. You will discover the excitement of science and math by participating in four hands-on workshops. The workshop leaders are scientists and science students that will share their knowledge and experience with you and answer any questions you may have about science and math careers.

## Workshops

- A. **In the Nanozone: The Science of Teeny Tiny** You've heard about nanoscience and nanotechnology, now find out how scientists study things that are so small.
- B. **Skeletons in the Closet** Did you know that there are over 200 bones hiding under our skin? From long to short to flat, these puzzle-like bones fit together in the most amazing ways to create the framework of our bodies.
- C. **"It's Elementary My Dear Watson:" The Science of Crime and Justice** Learn the science used to explain criminal behavior and solve problems related crime and the criminal justice system.
- D. **Become a Legal Drug Dealer: Careers in Pharmacy** Discover the exciting world of a pharmacist, working with the medicines that everyone needs to stay healthy.
- E. **Uncovering the Psychology of Everyday Life** Learn how the science of social psychology is used to understand what goes on in our everyday lives.
- F. **Terrific Tessellations** A tessellation is a tiled pattern where a shape is repeated without any gaps or overlaps. Tessellations have appeared throughout art history, from ancient times to modern art, such as the art of M. C. Escher. In this workshop, you will learn about the mathematics of tessellations, and will create your own tessellated art you can take home.
- G. **LaserFest Roadshow** Celebrate the 50<sup>th</sup> anniversary of the invention of the laser! Watch the laser show in the star dome and learn all about lasers.
- H. **Power It Up! An Introduction to Circuits** Circuits are used in your phone, iPod, and any device that requires power. Learn how to build a basic circuit to power a light bulb.
- I. **Rising Tide: Sea Level Rise and the New U.S. Coastline** Use Geographic Information System (GIS) software to simulate rising sea levels.
- J. **Great Expectations** Discover how probability is used to determine expected outcomes and make decisions based on that information.
- K. **ESTEEM PHYSICS: Engaging Students Through Exciting Experiments in Modern Physics** Participate in experiments at the frontline of physics research.
- L. **Wear Your DNA Necklace** Observe the properties of your own DNA by extracting the molecule from your cheek cells.

## Adult Program

Parents and teachers of participants are invited to participate in two adult information sessions. Registration is free.

1. Information about preparing for, applying to, and financing college. Hosted by the Marshall University Office of Admission and Financial Aid.
2. Learn about opportunities for students in WV including science camps, competitions, and activity days as well as NASA internships for high school and college students. Hosted by NASA IV&V.

## Adult Registration Form

**Register by March 26**

Send in with student registration form.  
Please, print or type.

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

\_\_\_ Teacher      \_\_\_ Parent

School \_\_\_\_\_

## Student Registration Form

**Register by March 26 for only \$5.00!**

One person per form. Please, print or type.  
Photocopy for additional registrants.

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone (in case of emergency) \_\_\_\_\_

e-mail: \_\_\_\_\_

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

School \_\_\_\_\_

Special restrictions (e.g. physical, dietary) \_\_\_\_\_

Select your top four workshop choices. We will try to place you in at least two of these.

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

Check here to request a \$5 grant (financial hardship only) to cover the registration fee.

**EYH Medical and Photo Release:** I give permission for my child to receive emergency medical treatment and care. I give permission for my child to be photographed and videotaped and for the images to be published in newspapers, magazines, and on the Internet for the purpose of promoting the EYH Conference.

**Parent/Guardian Signature and Date**

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Time	Activity
9:00-9:30	Registration and Breakfast
9:30-9:50	Welcome
10:00-10:50	Workshop #1/Adult Session
11:00-11:50	Workshop #2/Adult Session
12:00-1:50	Lunch
1:00-1:50	Workshop #3
2:00-2:50	Workshop #4
3:00-3:30	Closing Session

Students must be picked up by 3:45.

Breakfast and Lunch will be provided.

Mail registration form with a check payable to WV AWIS for \$5 (non-refundable) to:

EYH 2010 Registration

c/o Dr. Amy Keesee

WVU Physics Department

P O Box 6315

Morgantown, WV 26506-6315

Registration will close without notice prior to March 26 if space is filled.

### Directions to Byrd Biotechnology Building

**From I64:** Exit 11 at Hal Greer/16<sup>th</sup> Street; Follow 16<sup>th</sup> St. towards Huntington to Marshall. Continue past 3<sup>rd</sup> Ave. to 2<sup>nd</sup> (behind the parking lots). Park in the lot next to the Biotech Building (the first building with a catwalk across 3<sup>rd</sup> Ave).

Direct questions to  
harrison@marshall.edu  
(304) 696-4867

