



Science and Mathematics Career
 Discovery Day for Middle School Girls
 Stevenson University
 October 2, 2010

Registration Form

Please print neatly. All information is required as indicated and must be legible!

_____ Student _____ Adult (All adults staying for the event must register)

Name _____

Address _____

City, State, Zip _____

Phone _____ Cell _____

School _____ Grade _____

Email _____ T-shirt S M L XL 2XL 3XL
(we prefer to send confirmation via email) (adult sizes, circle one)

Students: If a parent cannot be reached at either phone number above, please contact:

Name _____

Phone _____ Cell _____

Students: Select five workshops from the attached lists and write the workshop numbers on the lines below. You will be placed into three workshops for EYH. If your listed workshops fill, we may substitute other workshops that are not on your list. Assignments will be made in the order that registrations are received. **(Adults:** Please leave this section blank.)

Please mail this completed form together with the full conference fee of \$25 per student or adult to the address below. Checks should be made payable to *Stevenson University*.

Susan Slattery - EYH
 Stevenson University
 1525 Greenspring Valley Road
 Stevenson, MD 21153

Expanding Your Horizons

Science and Mathematics Career Discovery Day for Middle School Girls

Stevenson University, 1525 Greenspring Valley Road, Stevenson, Maryland

Program Schedule for October 2, 2010

8:30 AM	Sign-in
9:00 AM	Welcome and Keynote Address
10:15 AM	Workshop Session 1
11:15 AM	Workshop Session 2
12:15 PM	Lunch
1:00 PM	Workshop Session 3
2:15 PM	Closing Event
3:00 PM	Dismissal

Workshop Descriptions

301. DNA Detectives.

Who dunnit? Analyze DNA samples using the forensic technique of DNA fingerprinting to solve a crime.

Wendy Kimber, Molecular Geneticist

302. Sensitivity: What's it all About?

Find out as you test sight, taste, smell, hearing and touch. And there's one more sense... Do you know what it is?

Carole Gonzalez, Biologist

303. Medicine Experts in Training.

How do pharmacists know all those medicines? Explore the secrets of the profession by using tools of the trade.

Chanel Agness, Pharmacist

304. Meet the "Sim Family"!

Learn about nursing, including hands-on practice with nursing equipment and training mannequins.

Stevenson University Nursing Department Faculty

305. Epidemic!

Diagnose and track a mock disease in the classroom. Learn how your immune system keeps your body healthy

Nicole Barat and Betty Sauter, Molecular Biologists

306. You Could Have a Career in Modeling.

Math modeling, that is. Learn about StarLogo and Turtles and how to use modeling to make predictions.

Eileen McGraw, Applied Mathematician

307. That's Just Like Magic!

Chemical reactions can look amazing. Learn about the science behind the spectacle.

Laura Parrish, Chemistry Laboratory Manager

308. Water Conservation.

Perform experiments to determine how you can conserve water at home and at school.

Miriam Glaser, Environmental Educator

309. Is That My DNA?

Where is DNA in our bodies? Can we see it? Look at your own cells under a microscope then isolate DNA from them.

Rivka Glaser, Biologist

310. The Diva Entertainment – Fall Concert Database.

Use real-world databases to see how vital they are in maintaining business records and data counts.

Iris Kutch, Software Engineer

Driving Directions: From I-695, take Exit 22 (Greenspring Avenue) and turn north. Drive just over two miles. Turn left at the traffic light (Greenspring Valley Road). The campus entrance will be on your left. Follow the signs for EYH parking.

311. Germs, Germs Everywhere!

Just how easily do germs spread? Find out with simulated germs in an interactive experiment.

Meredith Durmowicz, Biologist

312. It's Puzzling!

Come play with mathematical puzzles and find out how puzzle solving skills are useful on the job.

Erica Gryctz, Mathematician

313. Open Up and Say Ruff.

Take a look at the methods of Veterinary Medicine and explore the nuts and bones of Comparative Animal Science. (NOTE: This is a live animal presentation.)

Diana Scorpio, Lab Animal Veterinarian

314. All Cells Are Not Created Equal.

Learn to distinguish between plant and animal cells. Examine your own cells and learn how to grow cells in the laboratory.

Lorie Lana, Biologist

315. Glow, Glow, Glow!

Explore chemiluminescence and discover the chemistry behind why certain objects glow.

Sara Narayan, Chemist

316. Guess who's coming to dinner?

Use graphs to make a seating arrangement, use math to color a map. Learn why these skills are useful in the real world.

Gretchen Koch, Applied Mathematician

317. What in the World is a Whorl?

Did you know that no two people in the world have the same fingerprints? Find out what makes them unique.

Heidi Kunert, Forensic Scientist

318. Straight from the Horse's Mouth!

Race horses, show horses, work horses, pet horses - learn about the medical professionals who care for them all.

(NOTE: Weather permitting, this workshop will include a live animal presentation outdoors.)

Rachel Westerlund, Equine Veterinarian

319. Small Cells With Big Problems.

Your cells have a lot to say when you are sick. Find out what goes on in a medical lab that can help save your life!

Vivi-Anne Griffey and Betty Ciesla, Medical Technologists

320. Shining Stars, Glowing Galaxies

Examine one of the deepest images of the universe taken by the Hubble Telescope and classify the cosmic objects in it.

Mangala Sharma, Astronomer