

Explorathon 2012

Expanding Horizons for Girls in Science, Technology, Engineering, and Mathematics

A joint project of the American Association of University Women – Birmingham Branch, Ford Motor Company Fund, Cranbrook Institute of Science, and Detroit Country Day School.

Wednesday, April 4, 2012

7:45 a.m. – 1:00 p.m.

Location: Detroit Country Day School

Purpose

To provide students with interactive and hands-on workshop sessions featuring dynamic women scientists, engineers, mathematicians, and health care specialists; and to showcase opportunities for women in scientific careers. Male students also may participate.

Workshop Sessions

Interactive workshops will be presented to small groups of students in grades 8 through 12. Each student will participate in three workshop sessions. While students are participating in workshops, adults must attend concurrent interactive sessions presented by selected speakers from the Explorathon roster.

Registration

Attendance is limited to 550 participants in grades 8 through 12.

Reservations are accepted on a first-come, first-served basis. Registrations will be processed when completed forms and full fee payment are received. No faxed registrations will be accepted. Individual student registrations are welcome.

Group reservations from a single school will be limited to no more than 25 students and two adults.

Confirmations will not be sent. If your paid registration arrives after the program is filled, you will be contacted by phone and provided with a full refund. Registrations must be received by

Wednesday, March 14, 2012. NOTE: In order to attend

Explorathon, students must attend all three workshops. Students will be dismissed at 1:00 p.m.

Fee

\$15 per person: student, aide, parent, or teacher (includes lunch). Scholarships or bus subsidies are available. For further information go to www.aauwbirmmi.org. For additional questions contact Pam Hoffman (Phone: 248-865-7257; e-mail: pamela.hoffman@comcast.net).

You may copy this brochure and print registration forms from the website



Workshops

Please choose six workshops and list their letter and number in order of preference on the registration form that you return. You will be assigned to three sessions. Some substitutions may be necessary.

A. ANIMAL CARE AND ENVIRONMENTAL STUDIES

- A-1. Humane Education: Taking Care of the Earth and Its Inhabitants
- A-2. The Environment, Animals, and You—What's the Buzz About?
- A-3. Sustainable Futures: Exploring Careers in Environmental Science
- A-4. Connecting Your Career to Nature
- A-5. Tips for Teens Living Green
- A-6. Science, Law, and the Environment

B. ARCHEOLOGY, ARCHITECTURE, AND ASTRONOMY

- B-7. Human Bone in Archeology and Forensic Anthropology
- B-8. Architecture 101: Design and Technology
- B-9. The Real Cosmo Girl! Astronomy

C. CHEMISTRY

- C-10. What Happens After I Swallow That Ice Cream? Discussions in Biochemistry
- C-11. Chemistry in Our Lives: Polymers
- C-12. The Chemistry of Hair Care
- C-13. Computers: A Way of Life Today!
- C-14. Through the Looking Glass: Using Alice to Tell Your Own Story with Computers

D. ENGINEERING AND PHYSICAL SCIENCE

- D-15. What in the World is an Industrial Hygienist?
- D-16. Chemistry and Designing with Plastics (Latex is used in this workshop)
- D-17. Shades of Green: Engineering 4 Types of Hybrid Cars!

- D-18. Fitting the Environment to People: Human Factors Engineering
- D-19. Bridging the Gap: Bridge Building 101
- D-20. Don't Be a Dummy! Safety Testing Simulation
- D-21. Can You Hear Me Now? Sound and Vibration
- D-22. Biomedical Engineering: More Than Creating a Bionic Man
- D-23. Physics Helps Solve Medical Mysteries

E. HEALTH CARE

- E-24. Not Just for Seniors: Heart Disease and Cardiac Rehab
- E-25. Nursing: Anywhere! Everywhere! Explore the Possibilities!
- E-26. Exploring the Field of Orthotics and Prosthetics
- E-27. Let's Get Moving: Physical Therapy
- E-28. Dermatology for the Beginner
- E-29. All Genes Aren't Blue—Mine Make Me, Yours Make You! Genetic Counseling
- E-30. A Day in the Life of a Doctor
- E-31. The Study of the Atypical Brain: Neuropsychology
- E-32. FBI, Murderous Moms, Post-Traumatic Stress: Non-Traditional Psychology
- E-33. Impacting the Way People Eat: Discussions in the Career of Dietetics

F. MATHEMATICS

- F-34. The History of "0" as a Number
- F-35. Discovering Symmetry Relations in 3 Dimensions
- F-36. Possibly, Probably: Discussions in Probability Theory

Location

Detroit Country Day School

22305 West 13 Mile Road - Beverly Hills, Michigan 48025-4435 [southwest corner of 13 Mile and Lahser Roads]. Students should be dropped off at the 13 Mile Road entrance. To request directions, call 248-865-7257 or 248-909-4583.

Schedule - Wednesday, April 4, 2012

7:45 a.m. – 8:20 a.m.	Registration	11:20 a.m. – 12:05 p.m.	Workshop II or Lunch B
8:30 a.m. – 9:20 a.m.	Welcome and Keynote	12:15 p.m. – 1:00 p.m.	Workshop III
9:30 a.m. – 10:15 a.m.	Workshop I	1:00 p.m.	Student pick-up at 13 Mile Road entrance
10:25 a.m. – 11:10 a.m.	Workshop II or Lunch A		

Registration (Please print legibly)

Explorathon - Wednesday, April 4, 2012

Deadline to register is Wednesday, March 14, 2012. Attendance is limited to 550 participants in grades 8 through 12. Reservations are accepted on a first-come, first-served basis. You may copy this form on 8 1/2 by 11 inch paper. One registrant per form. Please print clearly all information, detach this section and mail with your payment.

Student Registration

Last name _____ First name _____

Address _____

City _____ State _____ Zip _____

Phone (____) _____ School _____ Grade _____

Do you wish a vegetarian lunch? Yes No [NOTE: Must be pre-ordered.]

Students: : List below your workshop selections **by letter and number** in order of preference. (You will be assigned to three workshop sessions. Some substitutions may be necessary.) **Please select from at least two areas.**

1. # _____ 4. # _____

2. # _____ 5. # _____

3. # _____ 6. # _____

Optional: "I hereby consent and authorize Explorathon permission to photograph my child for media sources including newspaper, television, and brochures in connection with the activities in Explorathon."

Parent/Guardian signature _____

Adult Registration

Last name _____ First name _____

Address _____

City _____ State _____ Zip _____

E-mail address _____

Phone (____) _____ Circle one: Parent Teacher Aide

School _____ School District _____

Are you coming by bus or school van? Yes No

Do you wish a vegetarian lunch? Yes No [NOTE: Must be pre-ordered.]

All Participants

Please enclose a check for \$15 per person (adults as well as students), payable to AAUW Birmingham Branch Foundation, Inc., and send to Ms. Pam Hoffman, 2077 Burgundy St., West Bloomfield, MI 48323. Phone: 248-865-7257

Note: Your check is your receipt. No refunds will be granted.