

Explorathon 2010

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

A joint project of the AAUW – Birmingham Branch, Cranbrook Institute of Science, and Detroit Country Day School.

Detroit Country Day School
Tuesday, March 30, 2010
7:45 a.m. – 1:00 p.m.

Purpose

To provide students with interactive and hands-on workshop sessions with dynamic women scientists, engineers, mathematicians, and health care specialists, and to inform students of opportunities available 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 will attend concurrent interactive sessions presented by selected speakers from the Explorathon roster.

Registration

Attendance is limited to 600 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. 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 Monday, March 8, 2010. 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 the website at www.aauwbirmmi.org. For additional questions contact Pam Hoffman (Phone: 248-865-7257; e-mail: pamela.hoffman@comcast.net).

You may copy this brochure.



Workshops

Please choose six workshops and list their numbers in order of preference on the registration form that you return. You will be assigned to three sessions. Requests will be filled as they are received. Some substitutions may be necessary.

A. Animal Care Sciences

- A.1 Do You Belong in the Zoo?
- A.2 The Zoo and You
- A.3 Walk on the Wild Side: Exotic Veterinary Medicine
- A.4 When Fluffy Gets Sick: Veterinary Medicine
- A.5 Bats: Myths and Mysteries

B. Anthropology, Archeology and Architecture

- B.6 Anthropology: Who, What, When, Where, and WHY
- B.7 Human and Animal Bone in Archeology, and Forensic Anthropology
- B.8 How Do We Look? Architecture and Landscape Architecture
- B.9 Architecture 101: Design and Technology

C. Chemistry and Computers

- C.10 What Happens After I Eat That Ice Cream? Discussions in Biochemistry
- C.11 Chemistry in Our Lives: Polymers
- C.12 What's in the Air I Breathe and the Water I Drink? Analytical Chemistry
- C.13 Computers: A Way of Life Today!
- C.14 Crime Scene Investigation: Computer Autopsy
- C.15 Through the Looking Glass: Using Alice to Tell Your Own Story with Computers
- C.16 How Does My Computer Do That? A Look Inside Your Computer

D. Environmental Studies

- D.17 Light My Fire: Field Research in Forest Fire Ecology
- D.18 Science, Law, and the Environment
- D.19 Sustainable Futures: Exploring Careers in Environmental Science
- D.20 Connecting Your Career to Nature
- D.21 Keeping the Great Lakes Great
- D.22 Bugs and Thugs of the Great Lakes: Aquatic Ecology
- D.23 Going for the Green: Product Design and the Environment

E. Engineering and Physical Science

- E.24 What in the World Is an Industrial Hygienist?
- E.25 Designing with Plastics (Latex used in this workshop)
- E.26 Shades of Green: Engineering 4 Types of Hybrid Cars!
- E.27 Fitting the Environment to People: Human Factors Engineering
- E.28 Bridging the Gap: Bridge Building 101
- E.29 Shooting for the Stars: the Science Behind Car Racing
- E.30 Miniature Science: What is Nanotechnology?
- E.31 Can You Hear Me Now? Sound and Vibration

F. Health Care

- F.32 The Study of the Atypical Brain: Neuropsychology
- F.33 FBI, Murderous Moms, Post-Traumatic Stress: Non-Traditional Psychology
- F.34 Life Behind Bars: Tales of a Female Jail Psychiatrist
- F.35 A Day in the Life of a Doctor
- F.36 Not Just for Seniors: Heart Disease and Cardiac Rehab
- F.37 Nursing—Anywhere! Everywhere! Explore the Possibilities
- F.38 Reach for Independence: Physical Therapy
- F.39 Let's Get Moving: Physical Therapy
- F.40 Physical Therapy: Art and Science
- F.41 Exploring the Field of Orthotics and Prosthetics

G. Mathematics

- G.42 The Importance of Zero in the Number System
- G.43 Possibly, Probably, Probability
- G.44 Symmetry-yrtemmyS: Opposites Attract!
- G.45 Count Me In: Solving Problems with Statistics
- G.46 What Are the Chances? Using Math to Predict the Future

Location

Detroit Country Day School

22305 West 13 Mile Road, Beverly Hills, Michigan 48025-4435 [Southwest corner of 13 Mile and Lahser Roads]. School buses should drop off students at the 13 Mile Road entrance. To request directions, call 248-335-8308.

Schedule

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.	School bus 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 - Tuesday, March 30, 2010

Deadline to register is Monday, March 8, 2010. Attendance is limited to 600 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 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 _____

Email 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, 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.