

# Expanding Your Horizons in Science, Technology, Engineering and Mathematics

WISE Outreach Program for 7th - 8th Grade Girls

## Call for Workshop Proposals

Proposal Deadline: September 11, 2009

On Saturday, October 24, 2009, the Women in the Sciences and Engineering (WISE) Institute will host their twentieth annual **Expanding Your Horizons (EYH) One-Day Camp** for 7<sup>th</sup>-8<sup>th</sup> grade students (ages 13-14) from the Centre Region at the Penn State University Park campus. Expanding Your Horizons is a program that was developed by the Math/Science Network in California in 1976. The goals of EYH are: to increase young women's interest in mathematics, technology, science, and engineering through positive hands-on experiences; foster awareness of career opportunities in scientific and technical fields; and provide young women with positive role models who are active in scientific and technical careers.

We invite faculty, graduate and undergraduate students, as well as industry professionals to propose **hands-on** workshops for this very successful program. We are looking for volunteers to conduct, 50-minute **hands-on** workshops in science, technology, engineering, or math fields for this camp. Workshops will tentatively take place in one of three sessions, 10:00am - 10:50am, 11:05am - 11:55am, and 1:00pm - 1:50pm. Approximately 20 students are estimated to attend each **hands-on** workshop.

For the 2009 EYH One-Day Camp parents/guardians and teachers/counselors are invited to participate in a hands-on workshop as well. We also are asking for volunteers to submit workshop proposals that would be geared for adults. We desire for parents/guardians as well as teachers/counselors to have a similar experience as the students in regards to career exploration within STEM. The experience will help parents/guardians and teachers/counselors to engage in career related discussions with students who have attended, as well as, those who were not able to attend the camp.

Although we are unable to pay instructors for conducting the workshops, we will provide every instructor and their assistants with **lunch**.

**Deadline for workshop proposals is Friday, September 11, 2009.** If you or someone in your lab or department is interested in conducting a workshop for EYH, please submit a proposal at <http://www.eyhreg.org>. Detailed instructions are attached.

Please feel free to contact the WISE Institute at 814-865-3342 or by email at [wise@psu.edu](mailto:wise@psu.edu) with questions.

## **2009 Expanding Your Horizons One-day Camp Camp Details & Workshop Proposal Guidelines**

The WISE Institute is currently looking for faculty, staff students in science, technology, engineering, and mathematic (STEM) disciplines to conduct workshops on Saturday, October 24th for our 2009 Expanding Your Horizons (EYH) one-day camp. The EYH Camp is a one-day career exploration program for girls talented in math and science in grades 7<sup>th</sup> and 8<sup>th</sup>. The EYH Camp will be held at the Penn State, University Park campus.

### **EYH Camp Details**

#### **Fall 2009 Camp Session**

- EYH one-day camp: Saturday, October 24, 2009 for 100 (Students) and 50 (Parents/Guardians & Teachers/Counselors)

#### **EYH Workshops**

- 50-minute **hands-on** workshop
- Sessions: approximately 10:00am - 10:50am, 11:05am - 11:55am, and 1:00pm – 1:50pm
- 20 participants in each session (Students will be assigned to separate workshops from Parents/Guardians/Teachers/Counselors. See below for more details.)

#### **Purpose of Workshops**

- ***Student Workshops***: Provide an opportunity for students to engage in career exploration in STEM fields through hands-on activities.
- ***Parents/Guardians/Teachers/Counselors***: Provide an opportunity for parents/guardians and teachers/counselors to have a similar experience as the girls with regards to career exploration in STEM.

#### **Appropriate Activities**

- Classroom hands-on activities
- Laboratory hands-on activities
- Full laboratory experiments

#### **Characteristics of Targeted Audience:** They have/are:

- Female Middle School Students in 7<sup>th</sup> or 8<sup>th</sup> grade, age range is 13-14
- Dramatic physical changes including the onset of puberty and rapid growth.
- Very concerned with their appearance. Will invest time in monitoring and changing their physical appearance.
- They are very focused on themselves. Also, they believe everyone is watching them at all times and passing judgment on their appearance and behavior. They also are watching everyone else.
- They feel that nothing bad can happen to them and that their feelings are not understood by others.
- Most of their focus is on their social life and friends. Friendships continue to be of the same gender. Rapid emotional changes such as hurt feelings can abruptly change relationships.
- Needs to learn to respect the needs and rights of others. Needs to be accountable to given rules and expectations.
- Energetic, enthusiastic, and vital.
- Generally can be cooperative and considerate, although at times they are inconsistent and unpredictable.

## PROPOSAL GUIDELINES

- Proposals for workshops should be in one of the STEM fields and follow the relevant activity structure as noted above.
- Workshops MUST ILLUSTRATE HANDS-ON ACTIVITIES AND MUST BE AGE APPROPRIATE.
- Workshops are submitted on a volunteer basis. No compensation will be given for conducting the workshop.
- **Proposal Deadline: on or before Friday, September 11, 2009**

- **To apply:**

Step 1: To submit a proposal visit <http://www.eyhreg.org/>

**Login Information:** Username: eyhcamp09 Password: eyhday09

Step 2: Input the following information on page 1

**Name:** Title of Workshop (32 characters max)

**Description:** Brief description of workshop; include goals (250 characters max)

**Target Audience:** Students, Adults, or Both

**Repeat Workshop:** Yes or No

**If yes, how many times:** 1, 2 or 3

Step 3: Click “Add Now” after all information is inputted

Step 4: Locate your workshop title on page 2 and click “modify”

Step 5: Input the following information on page 2

**Description of Hands-On Activity:** Provide Brief Description of how the 50-minute workshop will be conducted. It should only consist of 10 minute for introduction and 10 minute for wrap-up. (500 characters max)

**Special Equipment Needs/Comments:** List any potential issues that may arise for your particular activity (i.e., off-campus location, equipment use, access to computers/lab space, etc.)Also, do you need assistance with scheduling a room? Please provide workshop location , if known.

**Instructor Information:** Please provide lead instructor information

**Co-Leader:** List any additional instructors and their contact information: name, phone number and email address. Please also include assistants’ information: name, status (undergraduate, graduate, post-doc, staff, etc.), major, and college

Step 6: Click “Save”

Questions about the EYH Camp, workshops, and/or the proposals can be directed to the WISE Institute at 865-3342 or email [wise@psu.edu](mailto:wise@psu.edu)