

**EYH PRE-REGISTRATION FORM
APPLICATION AND PARENTAL CONSENT**

Pre-registration must be received by February 24, 2004 (groups by February 20) to receive written confirmation.

Your \$15 registration fee for each student and each adult includes morning refreshments and lunch. No refunds after Friday, February 27, 2004. Workshops are filled on a first-come, first-served basis. Limited scholarships are available. Please call for information **(831) 459-2169**.

Use one form for each person (student or adult) registering for the conference. Please check one:

- student grade ___ school _____
- parent educator

NAME _____

ADDRESS _____

CITY/STATE/ZIP _____

E-MAIL ADDRESS _____

- Check if you prefer a vegetarian lunch
- If you have any special needs, please check and enclose details so we may help you during the conference

I GRANT PERMISSION FOR MY CHILD TO RECEIVE EMERGENCY MEDICAL CARE WHILE ATTENDING THE EYH CONFERENCE AT UC SANTA CRUZ.

PARENT/GUARDIAN SIGNATURE _____ DATE _____

STUDENT WORKSHOP CHOICES

Write the number of your first five choices of workshops. You will be assigned two workshops.

Mail this form and a check payable to UC Regents to:
Robert Valdez,
UCSC Women’s Center, Cardiff House
1156 High Street
Santa Cruz, CA 95064
Attention: Expanding Your Horizons
Questions? Phone (831) 459-2169

REGISTRATION FEE

The fee of \$15 (applies to both students and adults) includes morning refreshments and lunch.

REGISTRATION FOR GROUPS

If you wish to bring a group of 10-40 students, send registration forms and one check before February 20, 2004. **Group reservations must be postmarked by Friday, February 20, 2004.**

THE DAY AT A GLANCE

The conference begins with an opening welcome and keynote presentation. The day is devoted to hands-on and career workshops led by professional women, faculty, and graduate students in math, science, engineering, or medicine. Students will explore their areas of interest in a morning session and an afternoon session. The closing session will be a science and the movies presentation! Participants will also have a chance to win a door prize when they complete and return their evaluation form.

**CONFERENCE SCHEDULE
SATURDAY, MARCH 6, 2004**

8:00 - 8:45 a.m. **Check-in / Onsite Registration**
Earth and Marine Sciences Building Lobby

9:00 - 9:45 a.m. **Opening Welcome**
Keynote Speaker: D. Dawn Motyka, MD, host/producer of “Health Matters” (KUSP); Senior Family Practice Physician, Scotts Valley Medical Clinic

10:00 - 11:15 a.m. **Workshops**

11:30 - 12:15 p.m. **Lunch**
Mystery Guests Activity

12:30 - 1:45 p.m. **Workshops**

2:00 - 3:30 p.m. **Closing**
“Science and Movies: The Good, the Bad, and the Ridiculous” Lisa Cirbus Sloan, Associate Professor and Director of the Climate Change and Impact Laboratory, Department of Earth Sciences, UCSC
Conference Evaluation and Door Prizes

WORKSHOPS

◆ BIOLOGICAL SCIENCES ◆

1. FUN WITH FUR: SEA OTTER EDUCATION WITH GIANT Q-TIPS

How do scientists help an endangered species? Learn how the Aquarium is trying to save the California sea otter, and what these interesting animals tell us about the Monterey Bay. *Jenny de la Hoz and Cristina Amarillas, Monterey Bay Aquarium, Educators*

2. LANDSCAPE ARCHITECT: OUTDOOR SPACES FOR PEOPLE TO LIVE IN

Learn about a rewarding career career that is both art and science. Analyze environments, manipulate landforms, and design with plants and paving. *Michelle Van de Voorde, American Society of Landscape Architects*

3. WHERE HAVE ALL THE FISHIES GONE?

Using Geographic Information Systems (GIS) mapping techniques, learn how to track the population monitoring and recovery management of threatened and endangered migratory fish. *S’Rai Helmbrecht, National Oceanic and Atmospheric Administration, Salmon Population Analysis Team*

4. UP CLOSE AND PERSONAL AT THE ARBORETUM: DOCENT-LED TOUR AND DISCUSSION

Will the wonders of flowers and plants never cease? Native plants and flowers from all over the world are cultivated and grown in microclimates at the UCSC Arboretum. If you have a green thumb or a love of genetics, tour these beautiful gardens and learn about rare and exotic plant life right here in our own backyards.

◆ ENGINEERING / MATH ◆

5. DARING TO BE DIGITAL

Jump the “digital divide” between science and art. Learn how to use computer science and engineering to create works of art. *Linda A. Levy, Presenter*

6. SCAVENGER HUNT: THE GENOME

Genes determine your eye color, height, and even how well you can smell. Search through human, mouse, fish, and worm DNA to find genes. Bilingual (Spanish/English) presentation. *Kate Rosenbloom, Software Developer, and Phoenix Eagleshadow, Outreach Coordinator, Center for Biomolecular Science and Engineering, UCSC Baskin School of Engineering*

7. THE MANY SIZES OF INFINITY

Infinity is infinity? Yes, but some infinities are larger than others! Learn how mathematicians look at never ending problems. Bilingual (Spanish / English) presentation. *Maria Schonbek, Professor of Mathematics, UCSC*

8. WOMEN IN ENGINEERING

What kinds of work do women engineers do, anyway? Listen to and ask questions of women engineers from Lockheed Martin who will discuss their interests, education, jobs, and specialties. *Kristina Hall, Lockheed Martin Corporation, Panel Moderator*

◆ HEALTH CARE ◆

9. MIDWIVES HELP PEOPLE OUT! INTO THE WORLD THAT IS...

Midwives have helped mothers birth their babies for ages. Witness one midwife’s modern-day experiences practicing the ancient art of midwifery. *Karen Ehrlich, P.P.M., L.M.*

10. OH BABY! WHAT A JOB! AN OVERVIEW OF NEONATAL NURSING TODAY

Learn how nurses use high- and low-tech means to meet the medical, social, and developmental needs of babies in a Neonatal Intensive Care Nursery. *Gay Gale, RNC, MSN*

11. SICK PEOPLE—WHO CARES? PANEL AND DISCUSSION

Meet women who work in traditional and non-traditional health careers. Learn how to plan for a health career and know if it is right for you. *Rosejoanne Cirincione, M.S., UCSC Health Sciences Careers Program, Panel Moderator*

**12. SO YOU WANT TO BE A DOCTOR?
START PRACTICING MEDICINE TODAY**

What does it take to become a MD, MA, PA? Hear about a typical day in a family practice doctor's office. Practice with medical tools by taking charts, checking blood pressure, applying a cast / splint, or checking blood sugar for diabetes.

Amy Solomon, MD; Maria Greaves, MD; Rebecca Small, MD; Amanda Knecht, MA; Sue Zehrung, MA; Christina Mahildi, PA student

◆ **PHYSICAL SCIENCE** ◆

13. BLING! BLING!

What can you see in a diamond, an emerald, a sapphire? Look into precious stones using gemologist tools and learn about glittering careers in gemology. *Sheila De Lany, Jeweler and Rhea Brezel, GIA Gemologist*

14. CAN YOU HEAR ME NOW? RADIO WAVES AND WIRELESS TECHNOLOGY

Learn about the physics of airwaves and the radio spectrum that is a most valuable natural resource of the information age. Careers in physics and radio broadcasting will be discussed. *Yvonne Rodriguez, Physics Graduate Student, and Justine Wolitzer, KZSC Station Manager*

**15. WEATHERING OUR WORLD:
EXTREME WEATHER VS. OUR LANDSCAPE**

Learn to identify and report cloud types and severe weather events. Recreate a landslide and learn how flooding and severe storms can alter the landscape and the community. *Jennifer Small and Carissa Carter, Graduate Students, UCSC Earth Sciences*

**16. WOMEN WHO TRAVEL THE WORLD:
WHERE GRADUATE SCHOOL CAN TAKE YOU**

Papua New Guinea, Panama, Tahiti, Italy, Alaska... Oh, the places you can go! Meet women who are earning their Ph.D.'s in Natural Sciences. Learn about travelling around the world for your research. *Erin Kraal, Marina Ramon, Becky Stampski, UCSC Earth and Marine Sciences, Graduate Students*

WORKSHOPS FOR ADULTS

17. THE ROAD AHEAD: PLANNING FOR COLLEGE PANEL

Learn about admission requirements for a University of California, California State University, community college and independent university. Specialists suggest strategies on college searches and how to pay for college.

**18. RAISING STRONG GIRLS:
YOUTH / ADULT COMMUNICATION**

We live in a pressured world and want our children to be successful. Learn about resources and discuss strategies for effective communication between caring adults and young people.

SPONSORS

Academic Excellence (ACE) Program	Graniterock
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Joan Barton	UC Santa Cruz Women's Center
CBSE, Baskin School of Engineering	Valley Women's Club

Directions to UCSC: Take Hwy. 1 north (Mission St.) to Bay Ave. Turn right on Bay Ave. to campus entrance.



EXPANDING YOUR HORIZONS
IN SCIENCE, MATHEMATICS, AND ENGINEERING
SATURDAY, MARCH 6, 2004



99
EYH Conference
Women's Center
University of California, Santa Cruz
1156 High St.
Santa Cruz, CA, 95064

• CIVIL ENGINEER • VETERINARIAN • CHEMIST •
ENGINEER • METALLURGIST • PEDIATRICIAN • METEOROLOGIST • PHYSICIST • BIOLOGIST • GEOCHEMIST • HYGIENIST • GEOLOGIST •
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**FOURTH ANNUAL
EXPANDING YOUR HORIZONS**
in science and mathematics

YOUR CAREER... FUTURE... CHOICE!

Saturday, March 6, 2004
University of California,
Santa Cruz
Earth and Marine
Sciences Building
B206

**A Conference for
9th to 12th Grade Young
Women
and Interested Adults**

• PHOTOGRAPHER • COMPUTER SCIENTIST •

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