

Expanding Your Horizons in Science and Mathematics

The American Association of University Women, West Harris County Branch
in affiliation with the Math/Science Network presents

The 13th Annual Conference
for Young Women
in Grades 6, 7 and 8,
Their Teachers,
Parents and Counselors



Saturday, February 26, 2005
8:00 am - 3:15 pm
The Rice School/
La Escuela Rice
7550 Seuss Drive
Houston, Texas 77025

Registration Form - Expanding Your Horizons

Saturday, February 26, 2005

How to Register: Complete a registration form for each participant. Include a check for \$6.00 per participant payable to West Harris County AAUW/EYH. Mail the registration form and check by Friday, February 11, 2005. You will receive a postcard confirming your registration. No registrations will be taken at the door. Space is limited. Register early!

Mailing Address: West Harris County AAUW/EYH, P.O. Box 821125, Houston, TX 77282-1125

Tell Us About You (Check one): Grade 6 Grade 7 Grade 8 Parent Teacher Other

Please Print Clearly in Blue or Black Ink:

Last Name: _____ First Name: _____

Sponsoring Teacher: _____ Teacher's E-mail: _____

School District: _____ School: _____

Home Address: _____ Apt No: _____

City: _____ State: TX Zip: _____

Home Phone: _____ E-mail: _____

Ethnicity (check one): Asian Black Caucasian Hispanic Native American Other

Is English the language your family usually speaks at home? Yes No Is this your first EYH conference? Yes No

Tell Us What Classes You'd Prefer: Everyone will attend 4 sessions. Every effort will be made to assign students to sessions within their selected categories. The categories are described on the following pages. Circle a different letter for each choice.

(Example: 1st Choice: A (B) C D E F 2nd Choice: A B C (D) E F)

Student Registration - Morning (A-F):

1st Choice: A B C D E F 2nd Choice: A B C D E F 3rd Choice: A B C D E F

Student Registration - Afternoon (J-O):

1st Choice: J K L M N O 2nd Choice: J K L M N O 3rd Choice: J K L M N O

Adult Registration - Morning (AA-JJ):

1st Choice: _____ 2nd Choice: _____ 3rd Choice: _____

Adult Registration - Afternoon (MM-VV):

1st Choice: _____ 2nd Choice: _____ 3rd Choice: _____

Student Permission Slip: Must be completed by parent or guardian. This is not a bus permission slip.

My daughter, _____, may participate in the EYH Conference on Saturday, February 26, 2005. I understand that while in attendance she will be asked to evaluate the conference and may be photographed or videotaped for EYH promotional purposes.

During the conference, I may be reached at _____ (Phone)

Signature: _____ Print Name: _____

If I cannot be reached in the event of an emergency, the following adult may act on my behalf:

Print Name: _____ Phone: _____

Sessions for Teachers

While the students are busy exploring math and science careers in their sessions, you will have opportunities to exchange ideas with other educators from the greater Houston area in sessions designed especially for you. This year's topics have been chosen to assist you in being a more able and effective communicator with your middle school students. Move from the concrete to the visual to the abstract with veteran program directors, master teachers, and fresh talent alike – and take home tools and materials you can put to use immediately. Whether you teach math, science or technology, you'll find something in this batch to add some zing to your routine and make you glad you gave up your Saturday!

Morning

- AA** Frequent Student Math Errors and How to Fix Them
- BB** Spice Up Your Lesson Plans
- CC** Increase Your Girls' Interest in Technology
- DD** Get a Leg Up on Robotics
- EE** Achieve a Girl-Friendly Classroom

Afternoon

- MM** Moving on Down the Line (Slope)!
- NN** Bring the Body Alive
- OO** Use the Web to Extend Your Reach
- PP** Programming to Teach Algebra
- QQ** Teach Science Uniquely

Schedule

8:00 AM	Check-in Light Breakfast Bonus Session
9:00 AM	General Session
10:00 AM	Morning Session 1
11:00 AM	Morning Session 2
NOON	Box Lunch Provided Bonus Session
12:45 PM	Afternoon Session 1
1:45 PM	Afternoon Session 2
2:45 PM	Door Prize Drawings and Closing
3:15 PM	Student Pick-up

Student Sessions

Healthy, Wealthy and Wise

These sessions are devoted to subjects that help keep you active and healthy. You benefit from the work these professionals do when you visit a doctor with a sore throat or pulled muscle, or turn down a cigarette. They help you keep your vision sharp, your teeth white, and your body fit. You're in good health and good hands with one of these dedicated women!

Morning - Category A

- Life & Times of a Physical Therapist – physical therapist Christine Baker, EdD
- Make Good Smiles Great – pediatric dentist Rita Cammarata, DDS and orthodontist Audrey Boutros, DDS
- CSI: Houston—The Blood Stories – medical technologists Balencia Dove-Kimble, MT (ASCP) and LaTonia Austin
- So You Want to Be a Doctor – family practice physician Latosha Gale, MD
- Exercise for Health, Money and Fun – personal trainer Hope Sampson

Afternoon - Category J

- Be a Doctor's Best Friend! – physician assistant Cheryl Arena, MPH, PA
- Rate Your Food Smarts – clinical dietitians Barbara Bahm, RD, LD and Rita Zapien, RD, LD
- Seeing Is Believing – ophthalmologist Elizabeth Baze, MD
- Sweat Equity – personal trainer Pamela Sampson
- Where There's Smoke, There's Trouble – tobacco researchers Veronica Torres and Susana Torres

Medical Science in Action

This group of sessions is dedicated toward the kind of medicine you don't generally see when you make an appointment with your doctor. The women who make these presentations specialize in fields that require unusual skills and result in research that advance the frontiers of medicine by using science and math to solve medical problems on a small and large scale.

Morning - Category B

- Sour News about Sweets – biomedical and diabetes researchers Lydia Aguilar-Bryan, MD, PhD and Ana Crane, PhD and student Joanna Bryan
- It's All in the Genes – geneticist Claire Gelfman, PhD
- Drawing Guts & Other Cool Scientific Stuff – certified medical illustrator Peg Gerrity
- The Truth in Testing – medical researcher Summer Jackson
- Pass Gas for Cash – anesthesiologist Vivian Porche, MD
- Hearing Colors, Tasting Shapes – science educator Irmgard Willcockson, PhD

Afternoon - Category K

- No Guts, No Gory – pathologist Patricia Chevez-Barrios, MD
- On the Road Again: MDs Getting a PhD – Celina Montemayor, MD and medical student Rebecca Schneider
- Connect the Dots – epidemiologist Andrea Shelton, PhD

Math Makes Money

Learning your way around the business world can yield valuable monetary results. These sessions are presented by women whose careers depend on knowing and using math to run businesses, evaluate purchases and sales and manage finances. Come share the ins and outs of using math in the real world with one of these professionals.

Morning - Category C

- Pulling Salaries Out of a Hat – auditors Leslie Berardo, CPA and Elissa Posway, CPA
- Bulls Make \$\$, Bears Make \$\$, Pigs Get Slaughtered – stock traders Rosanne Dillon and Kelley Welch
- Start a Business Like Beyonce or J Lo! – marketer Kim Godfrey
- The Magic of Money – bank office manager Tracye Lassus
- From Here to There and Everywhere - logistics buyer Cindy Yeng

Afternoon - Category L

- More Than House Numbers – realtor Marilyn Arendt
- From Bytes to Bites – entrepreneur and restaurant owner Sara Brook
- Real Computer Games – information technologist Andrea Ehlers
- Account by Number – finance director Jody Griggs
- Take the Pepsi Challenge – market researchers Lisa Tidwell, PhD and Genese Scott
- Selling Big Ticket Items - Is It What You Think? – sales manager Lisa Walla

Simply Science

You're in the heart of the science world when you experience one of these sessions. These scientists will fascinate you with the things they know and how you benefit from their knowledge every day. You'll be amazed at the secrets they reveal while sharing their experiences. Get out your test tubes and pull on your rubber gloves. This is pure science!

Morning - Category D

- Reading the Weather – meteorologist Dorri Breher
- The Renewable Future – marketer Nisha Desai
- Be a Super Hero! Defeat the Notorious Super Stretch Slime – chemist Lorraine Laut
- What's the Point! – chemist Mamie Moy, PhD
- Culinary Science – nutritionist Sheri Yearby

Afternoon - Category M

- What Color Is Air Pollution? – environmental scientist Jane Laping, MPH
- Microscopes: For the Little Things in Life – biologist and microbiologist Lisa Morano, PhD
- The Reaction Is Chemical! – chemists Sharla Papitto and Juana Maria Olvera
- Fear Factor...the Other Side!!! – science educator Amy Shah
- Plastic, It's Not Just What Barbie and Ken Are Made of – chemical engineers Carla Tibbetts and Melanie Zamora
- The Sky's the Limit! – pilot and captain Linda Wright

Engineering and Design Adventures

The women who present these sessions are responsible for designing, building and operating everything in - and out of - the world around us. Their unique combination of science and math applications makes these women naturals for this conference. These problem solvers love a challenge and demonstrate this in a wide variety of jobs.

Morning - Category E

- Mice and Keys – software designers Claudia Herrera and Melanie Kainer
- An Electrical Girl in a Chemical World – instrument/electrical engineer Kristin Morrow
- Robotics in Space – NASA Robotics Flight Controller Jill Reisman
- Invention, the Mother of Our Society – patent attorney Marcella Watkins

Afternoon - Category N

- Rice University CSters: College & Computing – computer scientists and students Christina Beatty and Elspeth Simpson
- Panty Hose, Tupperware and Roller Blades? – mechanical engineer Jennifer Bell
- Mission Not Impossible – environmental consultants from ENTRIX, Inc.
- Bark-itecture: Building the Perfect Doghouse – architects Kahne O'Banion, AIA, Lorraine Newgard and Kerri Ranney
- Toppling Towers – civil/structural engineer Julie Patin-Larson and college student Katy Larson
- Learn to Draft Like a Pro – landscape architect Kelly Snook, ASLA

Animal Kingdom

Veterinarians, vet paramedics, zookeepers and marine and wildlife biologists all cater to the beasts—wild and domestic—who share our space and inhabit our world. You'll be amazed at the stories these professional women share as they introduce you to the careers they've chosen in the kingdom of the animals.

Morning - Category F

- It's a Wild Life – veterinarian Natalie Antinoff, DVM
- Animal Blood from Angora to Zebra – vet paramedics Felicia Hill and Pam Huebner
- Is the Zoo for You? – zookeeper Karen Holcroft
- Fish Soup: Life as a Marine Biologist – marine biologist Julie Massey
- Animal Training – marine biologist and zoologist Patti Shoemaker
- Whoooo's for Dinner? – wildlife biologist Mary Ann Weber

Afternoon - Category O

- Those Amazing Insects – biologist Nancy Greig, PhD
- Critters in the City – wildlife rehabilitator Rebecca McKeever
- Girls, Let's Look for Pearl – marine biologist and Sea Camp Director Judy Wern, PhD

It's never too early to start preparing your daughter for that first day of college or too late to improve your parenting skills. The topics covered this year have been carefully chosen to help make that job just a little bit easier – for you and for her. The women who lead these sessions will demystify the college admissions process, share their expertise in financial planning, and offer a rare glimpse into teen health and psychology. Join other parents as you learn how to help your daughters be mentally, physically and academically ready to face the demands of high school and beyond. You'll leave with a better understanding of what makes your teen tick and what you need to do to get her ready for college.

Morning

- FF How to Ensure Your Daughter's Financial Success
- GG Find Dollars for College
- HH Uncovering Eating Disorders
- II Overcoming Academic Anxiety
- JJ Determining the Right College for Your Child

Afternoon

- RR Ride the 529 Express
- SS Improving Teen Health
- TT Talking to Your Teenage Daughter
- UU Ready Your Child for College
- VV Enhance Your Daughter's Self-Image

Free EYH Commemorative T-Shirt

Look for a coupon in your registration folder.

Expanding Your Horizons Conference Goals

The Expanding Your Horizons in Science and Mathematics™

Conference is designed to nurture the interest of middle school girls in math, science and technology and expand their career vision in these areas. EYH fosters an awareness of opportunities in science- and math-based careers for women. The girls have the opportunity to meet and interact with women using math and science in their professions and participate in fun and exciting hands-on workshops. EYH encourages young women to study as much math and science as possible by showing them the benefits of education and its relevance to their lives. EYH seeks to create a culture that says, "It's cool for girls to become scientists, mathematicians and engineers."

Funding for 2005 EYH Conference

Benefactors (over \$5,000)

ExxonMobil

Sponsors (\$1,000-\$4,999)

AIM Foundation

CenterPoint Energy

Federation of Houston Professional Women

The Simmons Foundation

The Women's Resource of Greater Houston

Friends (\$100-\$999)

American Chemical Society, Greater Houston Section

American Express Foundation Matching Funds

Bechtel Corporation

Sue Claymore – Chanel Representative

Conley Rose P.C.

Dessert Gallery

Downtown Aquarium Houston

High Touch – High Tech of Greater Houston

Houston Museum of Natural Science

Houston Zoo, Inc.

Institute of Electrical and Electronics Engineers, Houston Section

John P. McGovern Museum of Health & Medical Science

Nestlé Waters North America

Space Center Houston Manned Space Flight Education Foundation

Sterling Bank - West Office

Texas A&M University at Galveston

VT2 Media Design & Communications

Don't Miss Your Big Chance

Great Door Prize Drawings at 2:45 PM

• Sea Camp - Texas A&M

University at Galveston. Discover the world of marine biology during this week-long adventure. Explore the bay and gulf. Observe birds.

• Houston Zoo Tours.

Go behind the scenes to see what the zoo experts see.

• John P. McGovern Museum of Health

& Medical Science Membership.

Learn to be good to your "amazing body" with this gift membership. Enjoy free admission to the museum plus discounts for museum-sponsored programs, activities and more.

• Tickets to Space Center

Houston. Tour the Johnson Space

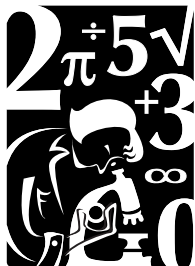
Center. Venture into the final frontier. Relive the stunning accomplishments of America's manned space flight program.

• Tickets to the Houston Museum of Natural Science.

Learn about the wonders of science from dinosaurs to space exploration.

• And much, much more.

In memory of longtime EYH volunteers Janice Bahm and Dell Buller, a limited number of need-based scholarships are available to cover student registration fees. For more information, teachers may contact the EYH Scholarship Coordinator at 281-787-6396.



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American Association of University Women
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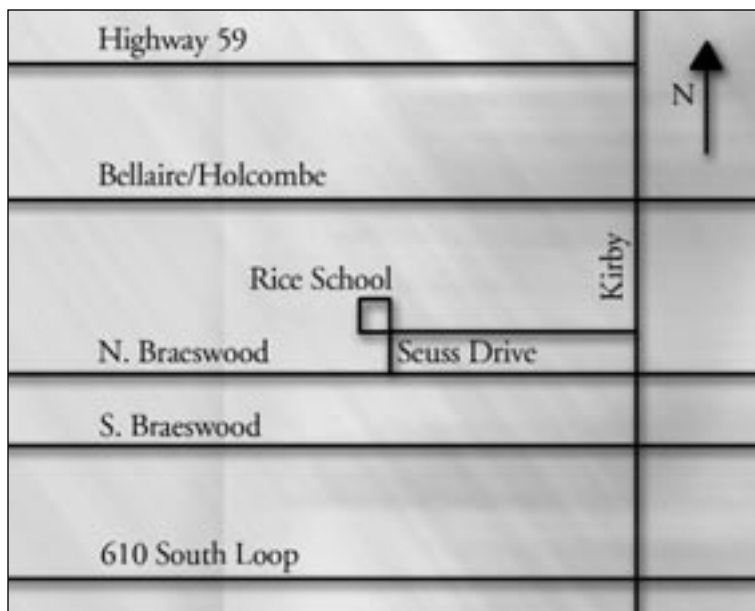
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- **Registration Deadline: Friday, February 11, 2005**
- Register Early! The conference is limited to 600 girls.
- One registration form per participant. Photocopy the registration form or download it from our website as needed.
- Pre-registration required. No registration at the door.
- Bring the postcard confirming your registration for express check-in at the conference.

Need more information?

Contact: Priscilla List 713-952-6488

or eyhinfo@aauw-whc.org. Check our website:
www.aauw-whc.org/eyh.