

PROGRAM — PARENTS AND EDUCATORS

- 8:45 a.m. Registration-** Pereira Hall
Bring your confirmation postcard.
Call (310) 338-2774 if not received by April 3, 2003.
- 9:30 a.m. Morning Program**
Keynote Address:
Sue Van Vorhis Key, Ph. D., Metamorphosis Enterprises
"Dr. Sue, the Bug Lady" shares her passion for arthropods and speaks about finding yours.
- Group G
- G-1 **Odds on You**
Roll the dice and play "This is Your Life". See what career paths to follow and how women's lives are different from men's.
Dr. Jackie Dewar, Loyola Marymount University Math Department
- G-2 **Color Me Crimson! Mixing Paints with Gelatin:
The Chemistry Behind the Art**
Prepare paints using pigments and gelatin for painting on a variety of surfaces. Also discover how art reflects the technological developments of cultures around the world.
Susanna Halpine, American Chemical Society
- 11:45 a.m. Lunch**
Afternoon Program - Adult Workshops
- 12:15 p.m.**
- Group H
- H-1 **Help Your Kid with her Math Homework without Doing It for Her!**
Learn strategies for assisting your daughter with math homework. Teachers can use this as a resource for working with parents.
Ann Carroll, Santa Monica College Math Department
- H-2 **Family Science Activities**
Try some experiments to do with your children/students using common household supplies.
Dr. Eleanor Siebert, Mount St. Mary's College Physical Science and Math Department
- 1:20 p.m.**
- I-1 **Nurturing Prospective Young Scientists**
Learn how parents and teachers can encourage their daughters/students to maintain their interest and ability in the fields of math, science and engineering.
Dr. Marcia Albert, Loyola Marymount University, Learning Resource Center Director
- I-2 **Family Science Activities**
Try some experiments to do with your children/students using common household supplies.
Dr. Eleanor Siebert, Mt. St. Mary's College

Conference Ends at 2:30

CONFERENCE PLANNERS

Bob Baker	Dani Lespron
Rita Basta, BVM	Jan Link, BVM
Susan Bienkowski	Cathy McElwain
Karen Cardenas	Fran Manion
Rosemary Connolly	Virginia Merriam
Jackie Dewar	Barbara Marino
Carol Fan	Eleanor Siebert
Lily Khadhavi	Carla Trujillo
Suzanne Larson	

CONTRIBUTORS

Contributors to National EYH Network

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DIRECTIONS TO LOYOLA MARYMOUNT UNIVERSITY

Address: Loyola Blvd. at W. 80th St., Westchester

From the San Diego Freeway, go west on Manchester Ave. approximately 2 miles to Loyola Blvd.; turn right (north) on Loyola Blvd. The school is 3 blocks north of Manchester. Loyola Blvd. is one block east of Lincoln Blvd. and several blocks west of Sepulveda Blvd.

Opportunities for Women

EXPANDING YOUR HORIZONS



The 25th Annual
Science, Mathematics and Engineering
Conference for Young Women
(Grades 6-10),
Parents, Counselors, Teachers

Saturday, April 5, 2003
Loyola Marymount University
8:45 a.m. – 2:30 p.m.

Sponsored by
Math/Science Interchange
Math/Science Network

REGISTRATION FORM DEADLINE: March 27, 2003

Student Participant (PLEASE PRINT)

NAME

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(LAST) (FIRST)

Address _____

City _____ Zip _____

Home Phone _____

School _____

City _____ Grade _____

Students: Select workshops that interest you from each lettered group.

Morning	Afternoon
1st Choice: A-___ B-___	C-___ D-___ E-___ F-___
Alternate: A-___ B-___	C-___ D-___ E-___ F-___
(You will be assigned to ONE morning and TWO afternoon workshops)	

Adults are welcome to attend, but they must register and plan to attend adult workshops. (PLEASE PRINT)

NAME _____
(LAST) (FIRST)

Address _____

City _____ Zip _____

Home Phone _____

Select one workshop from each group.

G-1 or G-2 / H-1 or H-2 / I-1 or I-2

Preregistration is required. There is a \$15.00 fee for each participant. This includes lunch and materials. Registration is limited to the first 200 respondents. A registration confirmation postcard will be mailed to you. This card must be presented on the day of the conference. If you don't receive your confirmation by April 3, please call (310) 338-2774 to confirm your registration.

Please mail this form and fee (make check payable to: Math/Science Interchange) to arrive by March 27, 2003 to:

"Expanding Your Horizons"
Department of Mathematics
Loyola Marymount University
Los Angeles, CA 90045

Your workshop materials and lunch tickets will be available at 8:45 a.m. at Pereira Hall on the Loyola Marymount campus.

Photographs may be used to document and assess this conference. Registration indicates parental/adult acknowledgement of this fact and consent for the use of photos taken at the conference.

CONFERENCE GOALS

- To increase the interest of female students in mathematics and science
- To explore the specific opportunities for women in math-and-science-related fields
- To provide students an opportunity to meet and form personal contacts with women working in traditionally male occupations
- To foster awareness of the qualifications necessary for careers in math-and-science-related fields

PROGRAM — STUDENTS

8:45 a.m. Registration - Pereira Hall
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Call (310) 338-2774 if not received by April 3, 2003

9:30 a.m. Morning Program
Keynote Address: Bugs in My Heart
Sue Van Vorhis Key, Ph. D., Metamorphosis Enterprises
"Dr. Sue, the Bug Lady" shares her passion for arthropods and speaks about finding yours.

- Group A
- A-1 **Chemistry Keeps Us Clean**
Join student chemists to experiment with soaps, shampoos, and detergents we use to keep ourselves beautiful and clean.
Honors Chemistry Class, Mount St. Mary's College
- A-2 **Water, Water Everywhere!**
Learn how the city water department monitors this important resource.
Tina Wilson, Civil Engineer, L.A. DWP
- A-3 **Smokey the Bear – Scientist?**
Firefighting is a science and women are part of it! Meet a female firefighter and learn what it takes to be on the front line.
Inspector, Los Angeles City Fire Department
- A-4 **Looking Down in the Mouth**
Learn about oral health and the modern world of dentistry.
Dr. Emily Mangohig-Wenzel

- 10:30 a.m.**
- Group B
- B-1 **Groundwater - Models of Aquifers**
Come play in the mud and learn how to clean up groundwater.
Ann Meeker-Gandi, Association of Women Geoscientists
- B-2 **Whodunit?**
Was it Colonel Mustard in the library with the candlestick or Miss Scarlett in the kitchen with the knife? See how police discover and analyze evidence and solve crimes.
Deborah Anderson, Senior Criminalist, L.A. County Sheriff's Scientific Services Bureau
- B-3 **Mathemagic!**
Amaze your friends with "self-working" magic tricks using cards and dice. All you need to know is the math that makes them work.
Fran Manion, Santa Monica College Math Department

11:45 a.m. Lunch

12:15 p.m. Afternoon Program

- Group C
- C-1 **Groundwater - Models of Aquifers**
Come play in the mud and learn how to clean up groundwater.
Ann Meeker-Gandi, Association of Women Geoscientists
- C-2 **Florence Nightingale Today**
It's challenging, it's creative, it's caring, it's a career for a lifetime! Find out what members of the nursing profession do.
Marilyn Adler, Santa Monica College Nursing Dept.
- C-3 **Faster than a Speeding Bullet?**
What do skid marks say about your driving? Discover how mathematics is used to investigate accidents.
Tami Tavarez, LAPD, Traffic Accident Investigator
- C-4 **PAs = Healthcare Professionals**
A physician's assistant, while not a doctor, provides a number of health care services. Learn about possibilities in this modern healthcare profession.
Noemi Gutierrez, PA, Clinica Medica Cuzcatlan and
Martha Cerda, PA and PT

1:20 p.m.
Group D

- D-1 **Creating Spaces**
Architecture is a profession which combines art and design with mathematical reasoning to create beautiful structures. Visit this workshop to find out how this is done.
Alex Getov, AWA, Astares Architects
- D-2 **Asphalt Cookies**
What do civil engineering, asphalt paving and a kitchen crockpot have in common? Learn the answer in this workshop.
Student Chapter, Society of Women Engineers, Loyola Marymount University
- D-3 **CSI – Fact or Fiction?**
Is CSI just a TV show? Learn how police use forensic science to investigate "what really happened".
Jennifer Snell, Los Angeles Police Department
- D-4 **Stick in the Mud!**
How deep should you plant a telephone pole so it stands up? Discover how civil engineers use soil testing to answer this question.
Joy Young, Civil Engineer

12:15 p.m. & 1:30 p.m.

Group E & F

- E-1 & F-1 **EXCEL at Party Planning**
Find out how to use a spreadsheet to plan a party.
Kathee Pantaleo, St. Rose of Lima School
- E-2 & F-2 **Molecules to Mice**
Come spend some time with LMU students in biology and chemistry laboratories.
LMU Science Students, Future Teachers Club
- E-3 & F-3 **Odds on You**
Roll the dice. Play "This is Your Life". See what career paths to follow and how women's lives are different from men's.
LMU Math Students, Future Teachers Club
- E-4 & F-4 **How Doctors Learn What They Need to Know**
How do doctors learn how your organs work? This workshop will provide the opportunity for some hands-on laboratory experience.
Dr. Nancy Halnon and Dr. Josephine Isabel-Johes, Pediatric Cardiology Division, UCLA Medical Center.