

PROGRAM – STUDENTS

- 1:00pm
C-09 **Group C Workshops (Continued)**
Patterns + Figures in Math (Math)
Mathematics is really about patterns, not just numbers. In this workshop, students will explore mathematical ways of thinking and hear about women mathematicians.
Katie Bresee, Cedars Sinai Medical Centers
- C-11 **Colorful Kelp Beads & Worms**
Explore the chemistry of biopolymers formed from oceanic kelp and use them to make colorful beads and worms to take home.
Cari Meyer Joiner, Pierce College Chemistry
- C-12 **MatheMagic (Math)**
Learn how to do magic using mathematical concepts!
Fran Manion, SMC Mathematics
- C-13 **Alice in Programland (Computer Science)**
You will use the software "Storytelling Alice" to create your own short animated movie in three dimensions.
Alice MacLennan, RAND Corporation
- C-15 **College Admissions Information**
Learn more about the important steps you need to take to find the right college for you. This workshop will explain the different college systems and different types of colleges that there are in order to help you find the best "fit" for yourself. It will also explain basics about the college application process, financial aid options, and other information. It's never too early to start learning about college!
Briana Tetsch, Daisy Morales, Stephanie Gomez, Rachel Ocampo, MSMU Student Ambassadors
- C-16 **The Urban Monarch (Ecology)**
Learn about Monarch Butterfly and how they migrate.
Erika Lytle, Cal State University, Dominguez Hills

2:00pm WRAP-UP and DOOR PRIZES (Hannon Theater)

PROGRAM – ADULTS

- 10:30am
D-01 **Women in STEM: Why So Few and Why It Matters**
An update on the status of women and girls in California and L.A. County, with an emphasis on career choices, education and health.
Dr. Eleanor Siebert, MSMU
- 11:30am LUNCH (Administrative Lawn)
- 12:00pm
D-02 **College Admissions and Financial Aid**
Learn more about ways to help your student find the right college for them. The Student Ambassador Program will explain the different college systems and different types of colleges that there are to help your student find the best "fit" for them. They will also explain basics about the college application process, financial aid options, and other information. Receive a quick College 101 lesson here!
Briana Tetsch, Daisy Morales, Stephanie Gomez, Rachel Ocampo, MSMU Student Ambassadors

PROGRAM – ADULTS

- 1:00pm OPEN
- 2:00pm WRAP-UP and DOOR PRIZES (Hannon Theater)

CONFERENCE PLANNERS

Emerald Archer	Nicole Henderson-	Lisa Melou
Katie Bresee	MacLennan	Christine Nguyen
Shanying Cui	Deborah Kirby	Maryann Nguyen
Robert DeGroot	Elvira Loreda	Stephanie Sandoval
Sharon Drummond	Fran Manion	Eleanor Siebert
		Ceci Stafford

CONTRIBUTORS

Contributors to National EYH Network

- Google
- Seagate Technology

Contributors to Los Angeles EYH Conference

- American Chemical Society, Southern California Section
- HRL Laboratories (formerly Hughes Research Laboratories)
- Mount St. Mary's University
- Mount Saint Mary's University Center for the Advancement of Women
- RAND Corporation
- Revision Optics RAND Corporation
- The Ninety-Nines, Inc. Women Aviators

Graphics courtesy of Expanding Your Horizons

DIRECTIONS TO MOUNT SAINT MARY'S UNIVERSITY

Address: 12001 Chalon Road, Los Angeles, CA 90049

Find directions at:

<http://www.msmu.edu/about-msmu/maps-and-directions.aspx>

For additional information on directions to the conference, contact the Public Relations Office at Mount Saint Mary's University, 213-477-2506

The 38th Annual
Science, Mathematics, and Engineering
Conference for Young Women
(Grades 5 – 8)
Parents, Counselors, Teachers



Saturday, April 07, 2018
Mount Saint Mary's University
Chalon Campus
8:45 a.m. – 2:30 p.m.

Sponsored by
Math/Science Interchange
A 501(c)(3) organization

www.ExpandingYourHorizonsLA.org

CONFERENCE GOALS

- To increase the awareness of young women about career options in math and science
- To encourage young women to participate in high school math and science courses
- 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 - OPENING

8:45am **REGISTRATION**
Mount Saint Mary's University,
Chalon Campus (Administrative Lawn)

9:30am **KEYNOTE ADDRESS** (Hannon Theater)
What on Earth? (Geophysics)
How Twitter, smartphones, and other technology are changing what we know about earthquakes.
Dr. Elizabeth Cochran., Research Geophysicist at the Earthquake Science Center, U.S. Geological Survey, California Institute of Technology

PROGRAM - STUDENTS

10:30am **Group A Workshops**

A-01 Chilling with Chemistry! (Biochemistry)
Participants will explore an array of cool experiments, from making Dip N' Dots, to freezing flowers, extracting DNA and more.
Dr. Sylvine Deprele with MSMU Chemistry and WISH Students

A-02 How Doctors Learn What They Need to Know (Biology)
This workshop will provide some hands-on laboratory experience investigating how the heart works.
Dr. Reshma Biljani DVM, SM Pet Medical Center

A-03 Scream for Ice Cream (Chemistry)
Explore the wonderful world of chemistry through this exciting and delicious workshop!
Akiko Arevalo & Jennifer Trochez, LAUSD

A-04 The Lip Lab (Chemistry)
Delve into the world of cosmetic chemistry! We will create our own lip balm while learning about the chemistry that goes into making lip care products!
Evelyn Khamou, MSMU Physical Sciences

A-05 Design & Create Holograms! (Physics)
Discover the magic of 3D holograms, and create your own using fun objects.
Deb Kirby, Andrea Corrión, Shanying Cui, HRL Laboratories, LLC

A-06 What Makes a Strawberry a Strawberry? (Genetics)
DNA holds the instructions that turn a group of cells into a mouse. Learn how scientists isolate and work with DNA.
Nicole Henderson-MacLennan, UCLA

PROGRAM - STUDENTS

A-07 Mouse House (Engineering)
Discover the building principles used to make sure your mouse house can survive the forces of nature.
David Hittleman, ARCADIS

A-08 Wings! (Engineering)
How do airplanes stay up in the air? Explore the aerodynamics of airplane design and some of the things aeronautical engineers do.
Rochelle Oslick, Ceci Stratford, Kimberly Jenks
Ninety-Nines, the International Organization of Women Pilots

A-10 Nursing: An Exciting Career (Medicine)
The workshop will be about opportunities in the nursing profession, what it takes to become a Registered Nurse and hands on time to perform basic clinical skills.
Marsha Nickerson, RN, MSMU Nursing

A-12 MatheMagic (Math)
Learn how to do magic using mathematical concepts!.
Fran Manion, SMC Mathematics

A-14 When Life Gives You Lemons (Physics)
This hands on workshop teaches you how to make a battery, measure its voltage, and light up an LED -- all from lemons or some other acidic food.
Barbara Belmont, CSU Dominguez Hills / American Research and Testing Inc

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12:00pm **Group B Workshops**

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