

PROGRAM – STUDENTS

- 1:00pm **Group C Workshops (Continued)**
- C-11 **Alice in Programland (Technology)**
You will use the software "Storytelling Alice" to create your own short animated movie in three dimensions.
Janet Berlin, Disney Animation
- C-14 **Lemon Power (Biology)**
Use a lemon to learn about electricity!
Daniela Parra, Cal State Univ DH
- C-16 **Gummy Fish Genetics (Biology)**
Learn about the impact of environment on genetics by mating fish in a "gummy fish pond".
Helen Vuong & Sarah Madsen, Assoc Women in Sci
- C-17 **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
- 2:00pm **WRAP-UP and DOOR PRIZES (Hannon Theater)**

PROGRAM – ADULTS

- 10:30am (open)
- 11:30am **LUNCH (Administrative Lawn)**
- 12:00pm
D-01 **College Admissions and Financial Aid**
Learn more about ways to help your student find the right college for them.
Maryann Nguyen, MSMU Admissions
- 1:00pm
D-02 **Unstoppable Girls!**
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
- 2:00pm **WRAP-UP and DOOR PRIZES (Hannon Theater)**

CONFERENCE PLANNERS

Katie Bresee
Sharon Drummond
Elvira Loredo
Fran Manion
Eleanor Siebert

CONTRIBUTORS

Contributors to National EYH Network
Google
Seagate Technology

Contributors to Los Angeles EYH Conference
American Chemical Society, Southern California Section
The Sheri and Les Biller Family Foundation
Gilmore Liquid Air Company
Mount St. Mary's University
RAND Corporation

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 11, 2017
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 - STUDENTS

8:45am REGISTRATION

Mount Saint Mary's University,
Chalon Campus (Administrative Lawn)

9:30am KEYNOTE ADDRESS (Hannon Theater)

Take to the Stars! (Astronomy)

Learn about the NASA Mission to Saturn as well as the Mission to Europa.

Trina Ray, Jet Propulsion Lab/NASA

10:30am Group A Workshops

A-01 Chilling Science! (Chemistry)

Students will freeze flowers, create smoky bubbles, extract DNA, make their own slime and dipping dots; relating it all to the nature of science and its behavior.

Dr. Sylvine Deprele & Andrea Perez, MSMU Chemistry
and WISH Students

A-02 Design & Create Holograms! (Physics)

Discover the magic of 3D holograms, and create your own using fun objects.

Deb Kirby, Andrea Corrion, Shanying Cui, HRL Laboratories,
LLC

A-03 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 Bijlani, SM Pet Medical Center

A-04 Scream for Ice Cream (Chemistry)

Explore the wonderful world of chemistry through this exciting and delicious workshop!

Kayla Kaiser, CSUN Biology/Microbiology

A-09 Wings! (Engineering)

How do airplanes stay up in the air? Explore the aerodynamics of airplane design and some of the things aeronautical engineers do.

Ceci Stratford, Women in Aviation

A-05 Wayfinding with Moana (Computer Science)

Adventure into the amazing world of coding. In this workshop, Moana will introduce you to the fundamental logic and techniques we use every day at Disney Animation, and you will apply them to helping with her wayfinding.

Janet Berfin & Kay Cloud, Disney Animation Studios

PROGRAM – STUDENTS

A-13 What is Physical Therapy (Medicine)

Learn about the field of physical therapy and experience some of the therapies practiced in this workshop.

Sandesh Singh, UCLA Physical Therapy
Cindy Graham, UCLA Physical Therapy

A-15 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

A-17 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

A-18 Mouse House (Engineering)

Discover the building principles used to make sure your mouse house can survive the forces of nature.

Christi Fu, ARCADIS

11:30am LUNCH (Administrative Lawn)

12:00pm Group B Workshops

B-01 Chilling Science! (Chemistry)

Students will freeze flowers and make their own slime, ice cream, and touchable bubbles by learning about and relating to the nature of science and its behavior.

Dr. Sylvine Deprele & Andrea Perez, MSMU Chemistry
and WISH Students

B-04 Scream for Ice Cream (Chemistry)

Explore the wonderful world of chemistry through this exciting and delicious workshop!

Kayla Kaiser, CSUN Biology/Microbiology

B-05 MatheMagic (Math)

Learn how to do magic using mathematical concepts!

Fran Manion, SMC Mathematics

B-07 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.

Jackie Dewar, LMU Mathematics

B-08 Scientific Study of the Mind (Medicine)

Learn about the history and methods of Psychology Research, by designing and conducting an experiment: Is birth order associated with personality?

Ruby Cheema, CA Health and Longevity Institute

B-11 Alice in Programland (Computer Science)

You will use the software "Storytelling Alice" to create your own short animated movie in three dimensions.

Mary O'Halloran, RAND Corporation

B-12 The Urban Monarch (Ecology)

Learn about Monarch Butterfly and how they migrate.

Erika Lytle, Cal State Univ DH

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Cindy Graham, UCLA Physical Therapy

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Dr. Reshma Bijlani SM Pet Medical Center

C-05 MatheMagic (Math)

Learn how to do magic using mathematical concepts!

Fran Manion, SMC Mathematics

C-06 Inside Your Brain (Biology)

During this workshop, we will take a tour of the brain and its function. We will demonstrate how the brain functions to "remodel" itself to improve memory and everyday tasks.

Julia Chang, MSMU

C-08 Scientific Study of the Mind (Biology)

Learn about the history and methods of Psychology Research, by designing and conducting an experiment: Is birth order associated with personality?

Ruby Cheema, CA Health and Longevity Institute

C-09 Wings! (Engineering)

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