

## PROGRAM – STUDENTS

- 1:00pm**  
**C-05** **Group C Workshops (Continued)**  
**Design & Create Holograms! (Physics)**  
Discover the magic of 3D holograms, and create your own using fun objects.  
HRL Laboratories Group
- C-06** **Nursing: An Exciting Career Option! (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.  
Marie Seitz, MSN, Mount Saint Mary's University Nursing
- C-07** **MatheMagic (Math)**  
Learn how to do magic using mathematical concepts!  
Fran Manion, SMC Mathematics
- C-08** **Soap Powered Boats (Chemistry)**  
Learn about three different chemistry principles that explain how a boat can be powered by soap.  
AWISE, Advancing Women in Science and Engineering  
UCLA
- C-09** **College Admissions**  
The Student Ambassadors will explain the different college systems and different types of colleges that there are to help understand what your choices are. They will also explain basics about the college application process, financial aid options, and other information. Receive a quick College 101 lesson here!  
MSMU Student Ambassadors
- C-11** **The Urban Monarch (Ecology)**  
Learn about Monarch Butterfly and how they migrate.  
Erika Lytle, Cal State University, Dominguez Hills
- C-12** **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-13** **Patterns + Women 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-15** **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-16** **Engineering Bristlebots (Engineering)**  
Transform a toothbrush into a racing robot using electrical engineering!  
Dr. Barbara Marino  
Loyola Marymount University
- 2:00pm** **WRAP-UP and DOOR PRIZES** (Hannon Theater)

## PROGRAM – ADULTS

- 10:30am**  
**D-01** **Your Plastic Brain: How Learning and Memory Works**  
Take a tour of the brain and the concepts behind learning and memory. What happens as we age? What can be done to keep your aging memory sharp?  
Dr. Jen Chotner, Mount Saint Mary's University  
Biological Science
- 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!  
MSMU Student Ambassadors
- 1:10pm**  
**D-03** **Sneak Peek: 2019 Report on Status of Women & Girls in CA**  
Learn about the status of women and girls in our state and our county. The presentation will focus on issues such as education, employment/earnings, poverty and health.  
Emerald Archer, Mount Saint Mary's University
- 2:00pm** **WRAP-UP and DOOR PRIZES** (Hannon Theater)

## CONFERENCE PLANNERS ???

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

## CONTRIBUTORS

### 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 Chalons 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 39<sup>th</sup> Annual  
Science, Mathematics, and Engineering  
Conference for Young Women  
(Grades 5 – 8)  
Parents, Counselors, Teachers



**Saturday, March 09, 2019**  
**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](http://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)  
**#WomenInFire**  
When we hear about fighting fires, we generally think of "firemen". In reality, women are also actively involved in fire service. Learn about the excitement and challenges associated with this job!  
Amy Bastman  
LAFD Firefighter

## 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 Bijlani, DVM, SM Pet Medical Center
- A-03 Scream for Ice Cream (Chemistry)**  
Explore the wonderful world of chemistry through this exciting and delicious workshop!  
Nicole Henderson-MacLennan
- 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)**  
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Katie Bresee, Cedars Sinai Medical Centers
- A-14 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, Ninety-Nines, the International Organization of Women Pilots
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AWISE, Advancing Women in Science and Engineering  
UCLA
- B-10 Mouse House (Engineering)**  
Discover the building principles used to make sure your mouse house can survive the forces of nature.  
David Hittleman, ARCADIS
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