

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 St. Mary's College, Doheny Campus, BLDG 4.
Bring your confirmation postcard.

9:30am KEYNOTE ADDRESS

I Invent, I Imagine, I Engineer!

A dream and determination can enable you to do whatever you want in your life!
Tara Chklovski, Iridescent

10:20am Group A

A-1 Solving a CheMystery (Chemistry)

Students will observe properties of four white powders and identify an unknown.

Dr. Barbara Gonzalez, CSU Fullerton

A-2 Paws to Consider (Biology)

Learn what's involved in being a physician to the furry.

Dr. Ilaria Brun del Re, UCLA

A-3 Nursing: An Exciting Career Option (Health)

What do nurses do? We'll practice some clinical skills.

Marsha Nickerson, MSMC

A-4 Can't We All Just Get Along (Math)

We will investigate how people make decisions when their interests differ from those of their community.

Dr. Sarah Nowak, Dr. Katherine Comanor, RAND

A-5 Mouse House: Can Your House Survive an Earthquake? (Engineering)

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

Christi Fu, Arcadis

Amy So, LA Dept of Building and Safety

A-6 How Doctors Learn What They Need to Know (Health)

This workshop will provide some hands-on experience investigating how the heart works.

Dr. Maria Garcia-Lloret, Dr. Karin Chen, UCLA Medical Center

A-7 Burst Your Way Into Statistics! (Math)

Count without counting? Is it magic? No, it's statistics! Use Starburst candy to learn about math.

Brett Munjas, RAND

A-8 Picasa and Digital Photos! (Engineering)

Software engineers create real products for everyday use, aiming to make our lives simpler and easier.

Susanna Leng, Google

PROGRAM – STUDENTS

10:20am Group A

A-9 What Makes A Mouse A Mouse? (Biology)

DNA holds the instructions to turn a group of cells into a mouse. Learn how scientists work with DNA.

Nicole Henderson-MacLennan, UCLA

Lola Rabib, Fibron Technologies

A-10 Optimizing Your Purchase Power (Math)

Use math to learn how to make your money stretch!

Caitlin Hawkins, Christine Nguyen, USC

A-11 Microscopic Magnets (Physics)

Learn about magnetic forces and nano-scale microscopy.

Sarah Olmstead, Pardee RAND Graduate School

11:15am LUNCH

12:00pm Group B

B-1 Squid for Kids (Biology)

Learn about the biology of the Humboldt squid.

Danna Staff, Stanford

B-2 You Scream, I Scream, We All Scream for Ice Cream! (Chemistry)

Explore chemistry in this delicious workshop.

Dr. Dorothy Nguyen-Graff, CSU Northridge

B-3 Exploring Chemistry at Home (Chemistry)

Explore kitchen chemistry using household supplies!

Dr. Susan Lee, USC/CHLA

B-4 Colder Than Ice! (Chemistry)

What can happen when things get really, really cold?

Aviva Litovitz, Pardee RAND Graduate School

B-5 Alice in Program Land (Engineering)

Use "Storytelling Alice" software to create your own animated movie!

Tina Panis, RAND

B-6 How Doctors Learn What They Need to Know (Health)

This workshop will provide some hands-on experience investigating how the heart works.

Dr. Maria Garcia-Lloret, Dr. Karin Chen, UCLA Medical Center

B-7 Asphalt Cookies (Engineering)

What do civil engineering, asphalt paving, and a crockpot have in common? Come find out!

Society of Women Engineers, LMU

B-8 Picasa and Digital Photos (Engineering)

Software engineers create real products for everyday use, aiming to make our lives simpler and easier.

Susanna Leng, Google

B-9 CSI: Chemical Science Investigation (Chemistry)

Use chemical analysis techniques to investigate a crime scene.

Chemistry Students, LMU

B-10 Optimizing Your Purchase Power (Math)

Use math to learn how to make your money stretch!

Caitlin Hawkins, Christine Nguyen, USC

PROGRAM – STUDENTS

12:00pm Group B

B-11 The World of Marine Science (Biology)

Discover how marine scientists investigate the ocean and why this is important.

Dr. Lynn Whitley, USC

1:00pm Group C

C-1 Squid for Kids (Biology)

Learn about the biology of the Humboldt squid.

Danna Staff, Stanford

C-2 You Scream, I Scream, We All Scream for Ice Cream! (Chemistry)

Explore chemistry in this delicious workshop.

Dr. Dorothy Nguyen-Graff, CSU Northridge

C-3 Exploring Chemistry at Home (Chemistry)

Explore kitchen chemistry using household supplies!

Dr. Susan Lee, USC/CHLA

C-4 Great Women in Mathematics (Math)

Learn about remarkable women mathematicians and engage in activities related to what they studied.

Math Teachers, LMU

C-5 Alice in Program Land (Engineering)

Use "Storytelling Alice" software to create your own animated movie!

Tina Panis, RAND

C-6 Bacteria Are Everywhere! (Biology)

Learn about bacteria from a microbiologist (a biologist who studies very small things).

Ruchi Medhekar, Baxter

C-7 What Is Physical Therapy? (Health)

Experience some of physical therapies practiced in this workshop.

Sandesha Singh, Cindy Graham, REHABNET

C-8 Math, Science, and Filmmaking (Engineering)

Math and science involved in movie making? See how this works while you create 3-D animation.

Tara Turner, Kimberly Rios, Disney Animation Studios

C-9 CSI: Chemical Science Investigation (Chemistry)

Use chemical analysis techniques to investigate a crime scene.

Chemistry Students, LMU

C-10 The Four Color Theorem (Math)

Use math to decide the smallest number of colors you need to color any map so that regions sharing a side are different colors.

Leah Calderone, Bain & Company

C-11 What Makes A Mouse A Mouse?

DNA holds the instructions to turn a group of cells into a mouse. Learn how scientists work with DNA.

Nicole Henderson-MacLennan, UCLA
Lola Rabib, Fibron Technologies

2:00pm WRAP-UP AND DOOR PRIZES

PROGRAM – PARENTS AND TEACHERS

- 8:45am **REGISTRATION**
Mount St. Mary's College, Doheny Campus, BLDG 4.
Bring your confirmation postcard.
- 9:30am **KEYNOTE ADDRESS**
I Invent, I Imagine, I Engineer!
A dream and determination can enable you to do whatever you want in your life!
Tara Chklovski, Iridescent
- 10:20am **Group D**
D-1 **Overcoming Math Anxiety**
What is math anxiety? How do you protect yourself and your children from falling prey to it? This workshop will provide strategies to address these important questions.
Dr. Maria-Grazia Ascenzi, UCLA
D-2 **Bacteria Are Everywhere!**
Learn about bacteria from a microbiologist (a biologist who studies very small things).
Ruchi Medhekar, Baxter
- 11:15am **LUNCH**
- 12:00pm **Group E**
E-1 **Getting There: The Road to College**
Parents and teachers play an important role in helping young women prepare for college. Learn more about some of the decisions that will influence her academic future.
Yvonne Berumen, MSMC
E-2 **What Is Physical Therapy?**
Experience some of physical therapies practiced in this workshop.
Sandesha Singh, Cindy Graham, REHABNET
- 1:00pm **Group F**
F-1 **Colder Than Ice!**
What can happen when things get really, really cold?
Aviva Litovitz, Pardee RAND Graduate Schools
F-2 **Juice It Up!**
Build your own citrus fruit-powered battery and learn about the power of chemistry!
Dr. Barbara Belmont, American Research and Testing
- 2:00pm **WRAP-UP AND DOOR PRIZES**

CONFERENCE PLANNERS

Maria-Grazia Ascenzi	Elvira Loreda
Rita Basta	Fran Manion
Catherine Breesee	Ruchi Medhekar
Sharon Drummond	Tanya Mills
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CONTRIBUTORS

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Google
Seagate Technology

Contributors to this EYH Conference

American Chemical Society, Southern California Section
American Research and Testing
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Braincake
Engineer Your Life
Gilmore Liquid Air Company
Institute for Operations Research and Management Sciences
Mathematical Association of America
Mount St. Mary's College
Peet's Coffee and Tea
RAND Corporation
Santa Monica Rotary Club

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DIRECTIONS TO MOUNT ST. MARY'S COLLEGE

Address: 10 Chester Place, Los Angeles, CA 90007

From the 110 Freeway –

Exit at Adams, go west for ½ mile, right on St. James Place, and right on St. James Park. The campus entrance is straight ahead.

From the 10 Freeway –

Exit at Hoover, go south for ¾ mile, turn left on Adams, then left on St. James Place and right on St. James Park. The campus entrance is straight ahead.

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

The 31st Annual
Science, Mathematics, and Engineering
Conference for Young Women
(Grades 5 – 8)
Parents, Counselors, Teachers



Saturday, April 10, 2010
Mount St. Mary's College
Doheny Campus
8:45 a.m. – 2:30 p.m.

Sponsored by
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