PROGRAM – PARENTS and EDUCATORS

8:45am **Registration** – Mount St. Mary's College, Doheny Campus, BLDG 4. Bring your confirmation postcard.

9:30am **Keynote Address**
Digging Up the Past - How Do Archaeologists Work?
Learn how archaeologists investigate and preserve the clues of former cultures to help us understand our link to the past.
Dr. Kathleen Hull, SRI

10:30am **Group D**

D-1 **How to Help Your Daughter with Her Homework Without Doing It for Her**
Parents will learn strategies for assisting with math homework. Teachers can use this as a resource for working with parents.
Ann Carroll, Santa Monica College

D-2 **College Financial Aid and Scholarships – How to Cash In**
Find out about the "ins" and "outs" of the financial aid and scholarship game for students anticipating college expenses.
LaRoyce Dodd, Mount St. Mary's College

11:30am **LUNCH**

12:30pm **Group E**

E-1 **Investing 101: For Women**
Roll the dice and play "This is Your Life." See what career paths to follow and see how women's lives differ from men's.
Roxana Solarzano, LPL Financial Services

E-2 **Getting There – The Road to College**
As parents, you play an important role in helping your daughter prepare for college. Learn about some of the decisions that influence her future.
Sonali Perera, Mount St. Mary's College

1:30pm **Group F**

F-1 **Hands On Chemistry: Charles' Law**
Learn how simple observation of physical properties and a little bit of mathematics was used by chemists of historical note to derive an important gas law.
Barbara Belmont, American Research and Testing

F-2 **Life Under the Microscope**
See how scientists investigate microscopically small life forms.
Dr. Chandra Srinivasan, CSU Fullerton

2:30pm **Wrap-Up and Door Prizes**

CONFERENCE PLANNERS

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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.

Opportunities for Women

EXPANDING YOUR HORIZONS

The 27th Annual
Science, Mathematics and Engineering
Conference for Young Women
(Grades 5 – 8)
Parents, Counselors, Teachers

Saturday, March 25, 2006
Mount St. Mary's College
Doheny Campus
8:45a.m. – 2:30p.m.

Sponsored by
Math/Science Interchange
Math/Science Network

www.ExpandingYourHorizonsLA.org

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

8:45am Registration
Mount St. Mary's College, Doheny Campus, BLDG 4.
Bring your confirmation postcard.

9:30am Keynote Address
Digging Up the Past - How Do Archaeologists Work?
Learn how archaeologists investigate and preserve the clues of former cultures to help us understand our link to the past.
Dr. Kathleen Hull, SRI

10:30am Group A

A-1 The Four Color Problem (Math)
Use mathematics to decide the smallest number of colors you need to color any map so that regions sharing a side are different colors.
Leah Barnes, RAND Corporation

A-2 PAs = Healthcare Professionals (Health)
Physician's assistants, while not doctors, provide many health care services. Learn about possibilities in this modern healthcare profession.
Martha Cerda, U.S. Health Networks

A-3 Whodunit? (Math)
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 to solve crimes.
Rachel Redmond, L.A. County Sheriff's Scientific Bureau

A-4 Asphalt Cookies (Engineering)
What do civil engineering, asphalt paving and a kitchen crock-pot have in common? Come to this workshop to learn the answer.
Student Chapter, Society of Women Engineers
Loyola Marymount University

A-5 How Doctors Learn What They Need to Know! (Health)
This workshop will provide some hands-on laboratory experience investigating how the heart works.
Dr. Erina Lin, Pediatrician, UCLA Medical Center
Dr. Sonal Patel, Pediatrician, UCLA Medical Center

A-6 Solving a CheMystery (Chemistry)
Students will observe properties of four white powders and identify an unknown. This simple activity can be related to the nature of science, and the type of problems that analytical and forensics chemists solve.
Dr. Barbara Gonzalez, CSU Fullerton
Dr. Kereen Monteyne, CSU Fullerton

PROGRAM STUDENTS

10:30am Group A

A-7 Isolating DNA: What Makes a Mouse a Mouse? (Biology)
DNA holds the instructions that turn a group of cells into a mouse. Learn how scientists isolate and work with DNA.
Karina Eastman, UCLA Medical Center
Lola Rahib, UCLA Medical Center

A-8 Engineering Magic (Engineering)
Did you ever wonder how bridges stay up supported by just a few poles? Discover the secrets engineers use to make this happen.
Evelyn Cortez-Davis, Los Angeles Department of Water and Power

11:30am LUNCH

12:30pm Group B

B-1 Physical Therapy – Hands in Motion (Health)
Learn how physical therapists help patients return to health after accidents, diseases, or injuries.
Dr. Shital Patel, UCLA Medical Center

B-2 Fly Me to the Moon! (Physics)
Learn what it takes to send a satellite into space.
Elaine Gehr, Science Applications International Corporation

B-3 Chemistry in Life
Engage in hands-on activities to learn how chemistry intersects our lives.
DOCS Club & American Chemical Society Student Affiliates,
Dr. Deniz Cizmeciyan, Mount St. Mary's College

B-4 Paws to Consider (Biology)
Learn what it's like to be a physician to the furry.
Dr. Michele Karron, Petville Animal Hospital

B-5 How Doctors Learn What They Need to Know! (Health)
This workshop will provide some hands-on laboratory experience investigating how the heart works.
Dr. Erica Lin, Pediatrician, UCLA Medical Center
Dr. Sonal Patel, Pediatrician, UCLA Medical Center

B-6 Presenting with Pizzazz!! (Math)
Share what you know with flair! Learn to create a professional Powerpoint Presentation to enhance your next oral report.
Kathee Pantaleo, St. Rose of Lima School

B-7 Isolating DNA: What Makes a Mouse a Mouse? (Biology)
DNA holds the instructions that turn a group of cells into a mouse. Learn how scientists isolate and work with DNA.
Karina Eastman, UCLA Medical Center
Lola Rahib, UCLA Medical Center

PROGRAM – STUDENTS

12:30pm Group B

B-8 Life Under the Microscope (Biology)
See how scientists investigate microscopically small life forms.
Dr. Chandra Srinivasan, CSU Fullerton

1:30pm Group C

C-1 The Quest for the Prettiest and Ugliest Flowers (Biology)
Do you prefer flowers with more petals or fewer petals? Learn how biologists study flowers and try your hand at finding new and unusual flowers.
Adrienne Roeder, Caltech

C-2 Fly Me to the Moon! (Physics)
Learn what it takes to send a satellite into space.
Elaine Gehr, Science Applications International Corporation

C-3 Hurricane? Earthquake? Can Your House Stand It? (Engineering)
Discover strategies that engineers and builders use to make sure buildings can survive weather and other challenges.
Melinda Chiu, Steelcase

C-4 Paws to Consider (Biology)
Learn what it's like to be a physician to the furry.
Dr. Michele Karron, Petville Animal Hospital

C-5 Fruit Fly Mysteries (Biology)
Learn why scientists are interested in fruit flies and learn what they are discovering.
Joy Goto, City of Hope

C-6 "Sit, Rover!" The Care and Training of Animals (Biology)
How do animal trainers motivate dogs, seals, and dolphins to perform tricks? Find out why it's important for animals to learn to behave.
Perri Leung, Aquarium of the Pacific

C-7 The Mathematics of Wallpaper Design (Math)
Did you know that there are only 17 types of wallpaper designs? Learn how to make your own design using the mathematical concepts of symmetry and tiling.
Dr. Sharon Clarke, Pepperdine University

C-8 Rockets, Radar and Satellites (Physics)
The earth's atmosphere extends over 27,000 miles! Come learn about what's up there, how it affects us and the tools we use to observe it.
Rebecca Bishop, The Aerospace Corporation

2:30pm Wrap-Up and Door Prizes