

Students, please complete the following questionnaire.

*Thank you.*

1. Have you taken or do you plan to take 3 or more years of math in high school?  
[Circle one] Yes No Don't know
2. Have you taken or do you plan to take 3 or more years of science in high school?  
[Circle one] Yes No Don't know
3. After high school how many years of education do you plan? [Check one]  
 A. None  
 B. Community college (2 years)  
 C. 4-years college (Bachelor's degree)  
 D. Graduate degree (Master's, Doctoral or other professional degree)  
 E. Don't know
4. I think science is: [Check one]  
 A. Interesting  
 B. Somewhat interesting  
 C. Boring
5. I think math is: [Check one]  
 A. Useful  
 B. Somewhat useful  
 C. Useless
6. Do you use a computer for? [Check all that apply]  
 A. Homework  
 B. Researching homework on the Internet  
 C. Surfing the Internet  
 D. Chat rooms  
 E. E-mail
7. What is your favorite subject in school?  
 A. Math  
 B. Science  
 C. Language arts  
 D. Art  
 E. History  
 F. Other: \_\_\_\_\_

Registration form (both sides) may be copied as needed.

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San Bruno, CA

3300 College Drive  
San Bruno, CA 94066-1698

EXPANDING YOUR HORIZONS



Skyline  
COLLEGE

SKYLINE COLLEGE

*Presents*

*The 32nd San Mateo County*

# EXPANDING YOUR HORIZONS

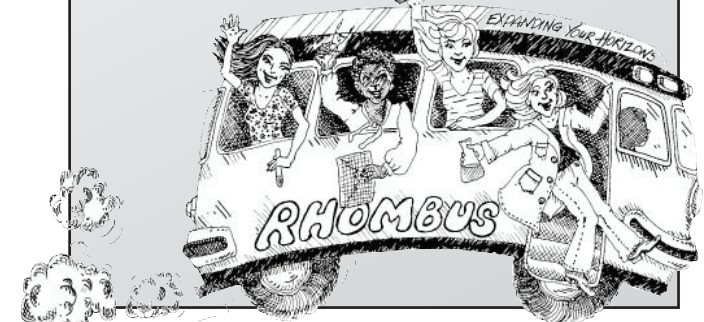
— in —  
**Math and Science  
Conference**

*A conference for 6th through 12th grade  
young women and interested adults to learn  
about career opportunities at*

Skyline College  
San Bruno

on

**March 17, 2012  
8:15AM to 3:00 PM**



## CONFERENCE GOALS

- To promote education as a means of expanding young women's options.
- To increase young women's awareness about math and science.
- To foster awareness of career opportunities for women in science- and math-related fields.
- To provide an opportunity for participants to meet and form personal contacts with women working in traditional and non-traditional fields.

## REGISTRATION

**Register early.** Register by mail using the form on this brochure. We will assign 3 sessions in order of preference, if possible. While we'd like you to get your first choices, popular workshops fill up quickly. If all your choices are full, we will place you in other workshops. We think all our workshops are terrific, and you may discover some great careers you hadn't considered. Early registration will help you get your top choices.

### ADVANCED REGISTRATION IS REQUIRED

The advanced registration fee of \$15.00/person (applies to both students and adults) includes a snack, lunch, and materials.

Registration fee is non-refundable.

RETURN REGISTRATION FORM BY MARCH 9, 2012  
Make check payable to EYH.

### No on-site registration on March 17th.

Mail your check and your completed registration form to: Expanding Your Horizons  
SMT Division  
Skyline College  
3300 College Drive  
San Bruno, CA 94066-1698

**Mark your calendar for March 17.** Registration confirmation will NOT be sent.

## QUESTIONS?

Fee waivers: email [eyh@smccd.edu](mailto:eyh@smccd.edu) or call  
(650) 738-4376 or -4230

## EARN COLLEGE CREDIT

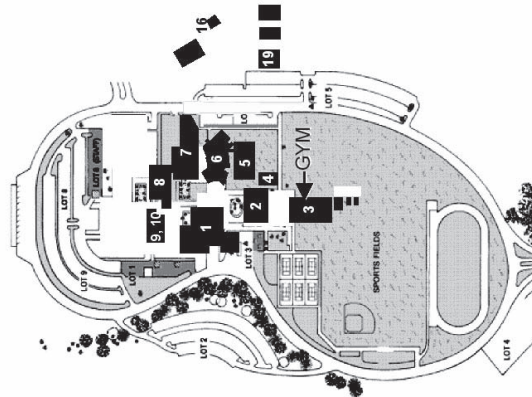
High school students: Earn 0.5 units of college credit. Get the concurrent enrollment application at <http://skylinecollege.edu/eyh>

<http://skylinecollege.edu/eyh>

## When you arrive on March 17th

Pick up your registration packet in the gym.

- 8:15 — 9:00 AM Pick-up registration packet
- 9:00 — 9:30 AM General Assembly
- 9:40 — 11:00 AM Workshop 1
- 11:10 — 12:30 PM Workshop 2
- 12:40 — 1:15 PM Lunch
- 1:25 — 2:45 PM Workshop 3
- 2:50 — 3:00 PM General Assembly II



You may park anywhere except in handicapped and red zones. Skyline parking permits will not be needed for the day of the conference.

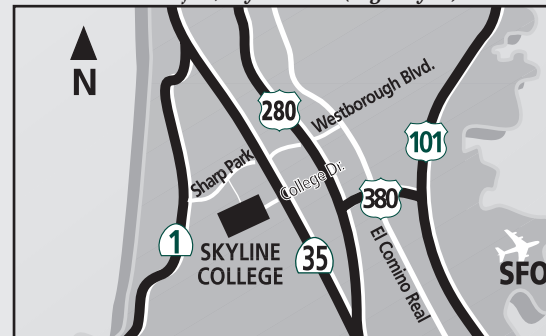
## How to find us

### SKYLINE COLLEGE

3300 College Drive—San Bruno

*From the North: Westborough exit off I-280.*

*From the South: Pacifica, Skyline Blvd. (Highway 35) exit off I-280.*



### Public Transportation

**SAMTrans #140 from Pacifica and San Bruno BART**

## GENERAL ASSEMBLY

For all conference participants

**Regina Stanback-Stroud, President, Skyline College**

**"Choose Your Future"**

**Dorian Daley**

**Senior Vice President, Oracle**

## PROBLEMS AND PUZZLES CONTEST

Contest entry forms will be in your registration packet.

**Pick it up early.**

Answers will be due at lunch.

Contest winners will be announced and prizes awarded at General Assembly II.

## PRIZES

### A Day With A Scientist

OR

### Tickets to:

Aquarium of the Bay	Oakland Museum
California Academy of Sciences	Paramount's Great America
Children's Discovery Museum	S.F. Maritime Museum
Coyote Point Museum	S.F. Museum of Modern Art
Fine Arts Museums of S.F.	S.F. Zoo
Hiller Aviation Museum	San Jose Museum of Art
Lawrence Hall of Science	Six Flags Marine World
Marine Mammal Center	Tech Museum of Innovation
	The Exploratorium
	Yerba Buena Center of the Arts

**C**ampus buildings are clearly marked; conference registration is in the Gym, building 3. During the conference, Skyline students will escort participants to their sessions. The morning snack includes juice and fruit. Lunch is sandwich, fruit, and beverage.

## SMCCCD BOARD OF TRUSTEES

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Dave Mandelkern, Patricia Miljanich

## SPONSORS

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**Bank of America Foundation**

## PLANNING COMMITTEE

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*In Memory Of Christine Mann*

**Life Science & Biotechnology**

- C.S.I. San Bruno: Murder in the produce aisle.** Interview and fingerprint the suspect then analyze his DNA to solve this crime. Katrina Cheung, Camille Espiritu, Denice Sy, and Casey Fortier. Skyline College Phi Theta Kappa.
- Micropipetting.** Experience Forensic Science. Investigate how to use the micropipette, the tool of forensic scientists. KimMarie Hansen, Shalini Prasad, and Jacob Ferris, Cañada College.
- Dress for Success in Biotech.** Join Skyline Bioreplications, our biotech company. Dress like a biotechnician and work in our company. Please bring your camera or phone to show everyone the work that you do in our biotech company. Alena Weers and Nick Kapp. Skyline College.
- How to cash in on proteins.** It has been said that DNA is the flash but proteins earn the cash in biotechnology. In this session girls will use hands-on activities to isolate some protein as well as learn how this class of molecule is the driving force of revenue for biotech. Anna-Marie Vargas, Jose Sanchez, and Afra Nabaggala. Skyline College AMSA group.
- What are the limits of your memory?** How well can you remember seven colors in order? Snow White and the Seven Dwarfs? Names? If you were to see five shooting stars, can you track where they fall? Will talking on your cell phone affect your performance? We'll explore how your mind remembers colors, faces, and moving objects. Jennifer Nguyen, Gloria Andrews, Mary Lou Flores, Steven Dominguez, Jon Jovi Bodestyne, Arthur Mandap, and Jed Calano. Skyline College.
- Be A Disease Detective.** How do the disease detectives track an outbreak of swine flu, West Nile, and other diseases? Create and track an epidemic in this workshop. Jenna Wilkin, Chelsea Bendebel, Megan Dones, and Evelina Vu. Skyline College.
- The wonderful world of plankton and whales.** Learn and investigate why plankton are important in the marine ecosystem. In addition you will learn about whales that are common on the California Coast. Genievive del Mundo and Steve Kieler. Skyline College.
- What's in Your Drinking Water?** What makes your drinking water taste? What makes it safe? Look for living creatures in your water and build a working water filtration system. Irene Yim, Morgan Davis, and Rochelle Beverage. Skyline College.
- Shoot it, Work it, Drop it!** Shoot some hoops with your non-dominant hand. Easy? Can you add two pounds? How high can your knees go? How many squats does it take to feel the burn? Let's find out how much you can do before your muscles give out! Elizabeth Williams, Vanessa Villegas, Henry Viray, and Miguel Torres. Skyline College.
- Sea Animals And Pollution—What happens when they mix?** Effects of pollution from household waste on sea urchin fertilization. We will look at live sea urchin sperm and eggs. Carla

**Engineering & Math**

- Let there be Light.** Light is all around you, but how much do you really know about how light is created? You probably are in the dark about the language used to describe light and laser optics. What happens when you turn on a lamp or a flashlight? How are these things powered and how do they actually work? In this workshop you'll learn more about the field known as LED lighting and you'll learn how optics affect light, direction, and color. Participants will get a chance to build their own flashlights. By the end of this workshop, you'll see the light! Jan Sumereel and Laura Stark. Rambus Inc.
- Let me tell you a secret.** Keeping personal information confidential is much harder now that the internet exists. Your personal information is important and you should only share it with whom you want and when you want. Many individuals are interested in stealing your personal information for their own personal use. In this workshop you'll learn more about the data encryption process for keeping personal and business data secure. You'll learn the basics of what secure communication means and how to protect your information. You'll also have the chance to create your own encrypted message to share only with your BFF. Liji Gopalakrishnan and Laura Stark. Rambus Inc.
- Rock Stars!** Girls will learn how 100-pound climbers can move 200-pound loads of food, water, and equipment up multi-day bigwall climbs. Melissa Michelitsch, Kate Robertson, and Sonya Dickenson. Skyline College.
- Love at First Byte.** Write a computer program in BASIC! Debug (fix) an adventure game program. Play and modify other games on the computer. Adrienne Jardetzky.
- Building a Green Home.** What are the elements that go into designing and building a green home? In small groups, you will have the chance to experiment with different designs in constructing a 3D model that showcases at least one green feature. Lindsey Virdeh and Sandy Wallenstein. Skyline College.
- Girls On The Mic!** Explore the careers of Recording Engineers, Music Producers, Live Sound Reinforcement Engineers, foley artists, and more. Learn to record music, operate a public address system, and use a digital audio workstation to record and edit voice and sound effects for a short cartoon. We are all about making some noise! Hillary Burkman, Jenny Thornburg, Noelle Duncan, Laura Dean, and Sinclair Riley. Women's Audio Mission.
- ET Phone Home.** What is a satellite? Learn how satellites are used in everyday life...TV, phone, internet, and more! We'll hold a contest to see who can build and bling the best satellite model. Neetha Iyer. Space Systems Loral.
- How to Perform Magic Tricks** (that involve math). Come learn how to perform and amaze audiences with magic tricks that are based on math. Nancy Blachman. Math Delights.

- your health. See how food and nutrition are linked to heart disease, diabetes, and other diseases. Sandra Frojelin, Anne Hamilton, Lisa Roberts, Candice Nguyen, Ashley Binger, Maria Kalinina, Alexandra Jaeger, Michelle Ribotta, Madison Meeds, and Jennifer Wong. San Francisco State University.
- Scrub-in for Surgery.** After a brief description of what happens in an O.R. and who works there, put on a surgeon's gown and gloves to tour our O.R.! Alice Erskine, Skyline College.

**Life Skills**

- Girl Power!** Inspiring girls to embrace their dreams and to set the right goals to achieve them. Dream Big! Even better than that, achieve your dreams by setting attainable goals and focusing your vision to make your dreams a reality. You'll leave this workshop with an artistic Vision Board of your own creation that can be a daily reminder of what you want and how to get it. Rachael Sage. School-to-School International.
- Feathering Your Nest with Flair.** Learn about careers in Interior Design during this hands-on workshop. Work with materials that upgrade your space while increasing functionality. Learn how strong math skills are at the heart of strong design. Linda Burroughs. Design Solutions.
- Improving your...What do you call it?...Memory.** Fun ways to test short term memory. We will use color patterns, letters in random order and sentence fragments, while distracting you with jack hammer noises. Develop better memorization skills with computer games. Antonina Fillari, Cynthia Hickey, Eugene Cheung, and Jorsen Baysac. Skyline College.

**PROGRAM FOR ADULTS**

*NOTE TO ADULTS: Workshop presenters have made special efforts to provide exciting and informative presentations for the students. Adults may not attend these student sessions. A concurrent program for adults has been arranged and is described below.*

- Choosing a college.** An overview of California higher education provides information to help you determine the right choice for your family. Riana Mesias, Ashley Good, and Benjamin Angulo. Skyline College/Stanford University.
- Creating Color Continuity.** People are generally surprised to know that color is the single most important element in transforming a space and it is the least expensive. Join us in defining the 12 steps to transforming your living space on a budget. Bring photos of your "problem" area and let's get started! Linda Burroughs. Design Solutions.
- Financing Education.** An overview of the financial aid process along with information on the different types of aid that are available at the collegiate level. Jocelyn Vila, Program Services Coordinator, Skyline College Office of Financial Aid.

