

# CELEBRATING WOMEN IN SCIENCE DURING WOMEN'S HISTORY MONTH

Several departments in the School of Science and Technology are sponsoring talks and events featuring women in science during Women's History Month. All are free to the public, although there are parking fees. Contact Cory Oates in the School Office for additional information: [cory.oates@sonoma.edu](mailto:cory.oates@sonoma.edu) (707-664-2171).

## Tuesday, March 3: WIT

5:00 - 7:00 pm, Darwin 103

### WOMEN IN TECH PANEL DISCUSSION: OVERCOMING CHALLENGES IN COLLEGE & CAREER

Learn from industry professionals and how they faced challenges as students and in their careers.

## Wednesday, March 4: SIT WITH US

12:00 - 1:00 pm, Sonoma Valley Room

SWE and WiCS host a #SitWithMe event for students supporting women in technology. Interested students can join us as part of a community of future tech professionals to take a seat in the SSU RedChair for a professional headshot. RSVP to [sonoma.swe@gmail.com](mailto:sonoma.swe@gmail.com) or [wicsclub.ssu@gmail.com](mailto:wicsclub.ssu@gmail.com) (space is limited).

## Friday, March 7: SONIA KOVALEVSKY HIGH SCHOOL MATHEMATICS DAY

9:00 am - 3:30 pm, Wine Spectator Center

This event is both a celebration of Sonia Kovalevsky, the first woman to receive a Ph.D. in mathematics, and a celebration of the participation of all women in mathematics. The day will include a keynote lecture, hands-on math activities, networking opportunities with local high school students, tips on applying to college, a career panel, and a special workshop for teachers. This year, for the first time ever, we will be honoring Ruth Gonzalez, the first Latina to earn a Ph.D. in mathematics, by holding the first annual RUTH GONZALEZ MATHEMATICS COMPETITION! All activities are geared to encourage girls and young women to pursue degrees in STEM!

## Tuesday, March 10: Biology Colloquium

12:05 - 12:55 pm, Darwin 103

### Dr. Poulami Chaterjee, REGULATION OF PLANT VOLATILE EMISSION BY ACC DEAMINASE PRODUCING BACTERIA UNDER SALT AND HEAT STRESS CONDITIONS

TBD

## Wednesday, March 11: M\*A\*T\*H Colloquium

4:00 p.m., Darwin 103; coffee, tea, and cookies at 3:45 pm

### Dr. Judith Canner, A COMPARISON OF STATISTICAL MODELS FOR LONGITUDINAL DATA

The procedural aspects of statistical modeling are often well-defined once a model type is selected, but often, researchers do not consider the impact of model type on their interpretation of the data. We will explore how model type impacts the discovery of information in a case study observing the longitudinal behavior of problem drinkers. We will explore several common model types used to evaluate longitudinal data. In addition, we will explore how model choice can impact our evaluation of model features, specifically how we quantify the effectiveness of different interventions, such as medication and therapy, for problem drinkers.

## Monday, March 23: What Physicists Do

4:00 pm, Darwin 103; coffee at 3:30 pm

### Dr. Louise Anderson, LIFE INSIDE A HOLOGRAM: THE BEAUTY AND HORROR OF STRING THEORY

TBD

## Tuesday, March 24: Biology Colloquium

12:05 - 12:55 pm, Darwin 103

### Dr. Jenn, Smith, EVOLUTIONARY ECOLOGY OF SOCIAL NETWORKS IN FREE-LIVING MAMMALS: FROM HYENAS TO GROUND SQUIRRELS

Join Dr. Jennifer E. Smith, associate professor of biology at Mills College, for her colloquium talk, "Evolutionary Ecology of Social Networks in Free-Living Mammals: From Hyenas to Ground Squirrels". This engaging talk will cover her research from across the globe: from her doctoral research in Africa studying matriarchal hyenas, to her current research with chatty ground squirrels in California. You won't want to miss your chance to see this energetic woman of science in action!

## Wednesday, March 25: M\*A\*T\*H Colloquium

4:00 pm, Darwin 103; coffee, tea, and cookies at 3:45 pm

### Dr. Julie MacNamara, FRACTION SENSE: WHAT IS IT AND WHY IS IT IMPORTANT?

Students' understanding of fractions and other rational number topics is a strong predictor of their success with algebra and beyond. Many practices that are commonly employed in the elementary and middle school classroom, however, lead to confusion, limited understanding, and, in many cases, fear of the topic. This talk will highlight some of the common challenges students face when working with fractions, as well as present a lens for teaching and learning about fractions that builds on what students already know and can do with whole numbers, and helps them develop their "fraction sense".

## Thursday, March 26: WIT

12:00 - 1:00 pm, Salazar 2006

### CREATE-AN-APP WORKSHOP

Learn to build your own mobile app! No experience is necessary! Workshop is led by Women In Tech students.

## Thursday, April 2: Engineering Lecture Series

4:30 - 5:30 pm, reception at 4:00 pm; Salazar 2009A

### Dr. Maryam Khanbaghi, CONTROLLING THE DUCK CURVE: DILEMMA OF 21ST CENTURY POWER GRID

Today, the global electric power industry is undergoing a transformation from centralized generation to a multi-directional combination of distributed energy resources (DER) and smart grid solutions. Simultaneously, the grid infrastructure is requiring increased investment due to aging in order to maintain resiliency and reliability. These two factors combined create an important and unique opportunity to revisit the 120-year-old structure with the control objective in mind in order to manage resiliency, reliability, and cost. Microgrids ( $\mu$ Grids) are evolving to become the fundamental building blocks of a smart grid. Proliferation of  $\mu$ Grids incites utilities to revisit the existing grid management paradigm.  $\mu$ Grids are controllable entities of interconnected loads and DERs. This talk will provide an overview of the existing power grid and how we can control theory to provide input for design of the grid of future.