



# SDSU Science & Engineering Sampler · March 18, 2017 · 9am-2pm

**FREE Public Event and Parking · Fun for the entire family · No RSVP needed**

## CHEMICAL SCIENCES LABORATORY (CSL) building

### VizCenter: Helping the World

**CSL 120**

See how we help with Humanitarian Assistance Disaster Relief; stimulate international relationships and trade; and assist law enforcement through emerging technologies, innovative back-end processing, and operational needs.

### Show-Me Geology

**CSL 2nd-Floor**

Learn about the importance of rocks and minerals in everyday-life, start a mineral collection.

### CSI meets CSU

**CSL 226**

Learn about Forensic Science, develop fingerprints utilizing different methods.

### X-ray Crystallography

**CSL 231**

Chemists and biologists learn how a molecule works by studying its three-dimensional structure. Even the largest molecules are too small to be directly observed by the most powerful light microscopes.

### Engineering and Science with Aztec Science Camp

**CSL 3rd-Floor**

Explore your engineering side as you design and test a structure to withstand "The Crusher." Find your artistic side as you use a scribble bot to draw a masterpiece. Learn more about Aztec Science Summer Camp.

### Laser Applications in Chemistry and Biochemistry

**CSL 302**

A wide range of lasers, used in multi-photon nonlinear laser techniques for biomedical and environmental applications, will be on display.

### World of Nanochemistry

**CSL 303**

Come see how nanoparticles are made and analyzed.

### Who Cheated? Find out by Using Chromatography

**CSL 526**

Five students are suspected of forging the answers to an exam. You need to determine if one of the pens found on a suspect matches the ink from the exam. Use the same technique the police use to analyze ink.

## GEOLOGY, MATHEMATICS, COMPUTER SCIENCE (GMCS) building

### Build Your Own Butane: Chemistry on the Computer

**GMCS 245a**

Use molecular modeling software on computers to construct a molecule and test it for stability.

### Regenerating the Human Body with Stem Cells

**GMCS 106**

Learn how stem cells make-up different parts of the human body and how they repair and replace dead and damaged organs.

### Take a Land Cruise on the RP Oceans

**GMCS 108**

Make waves, move beaches, and measure the Earth's rotation.

## ENGINEERING (E) building

### Engineering Tours

**E Building**

Depart from the Mediterranean Garden: 10:30am, 11:30am, and 12:30pm.

## LIFE SCIENCES (LSS & LSN) buildings

### Exploration of the Human Body

**LSN 3**

Explore the amazing world of the human body. Look into a microscope to see the incredible organization and beauty behind bone and muscle.

### Flow Cytometry Facility: Lasers Make Cells Glow

**LSN 26**

Watch with microscopes as high-powered lasers allow individual cells to fluoresce in different colors.

### Phage Attack: Weapons of Microbe Destruction

**LSN 2nd-Floor**

Learn how phage, the viruses of bacteria, launch attacks against their bacterial targets. See bacterial cultures before and after phage attack.

### Stem Cell and Tissue Regeneration

**LSN 2nd Floor**

Learn how freshwater planarians (flatworms) have the remarkable ability to replace missing tissue after an injury.

### Museum of Biodiversity

**LSS 269**

See big bugs, hairy spiders, skeletons, furs, feathers, plants, and more from our vast museum collection. Learn about field biology and natural history education at SDSU.

## PHYSICAL SCIENCES (PS) building

### Electron Microscope Facility

**PS 1**

See inside cells magnified thousands of times on our scanning and transmission electron microscopes.

## PHYSICS ASTRONOMY (PA) building

### Supersonic Ping-Pong Balls & Superconducting Levitation

**PA 216**

The power of air pressure will be demonstrated as Ping-Pong balls are launched to supersonic speeds at empty soda cans and perform superconducting levitation.

### Super-Cool Ice Cream: The Cool World of Cryogenics

**PA 215**

Liquid nitrogen instant ice cream, balloon freezing, and much more.

### Planetarium Shows

**PA 209**

Enjoy a tour of the starry night sky in our planetarium. Shows are 20 minutes long and are given every half-hour. (Unfortunately, there is no wheelchair access inside the planetarium.)

### Telescopic Views of the Sun

**PA Roof**

View the Sun (safely!) through telescopes; hopefully see sunspots.

## MEDITERRANEAN GARDEN

### Engineering Displays

**Mediterranean Garden**

Mechanical engineering machine shop, aerospace, and robotics.

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Any questions or comments should be directed to San Diego State University, College of Sciences (619) 594-5142.

<http://sdsu.edu/sampler>



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