



# 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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