



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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<http://sdsu.edu/sampler>



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