



# 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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