SDSU Science & Engineering Sampler • March 19, 2016 • 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 the VizCenter helps with Humanitarian Assistance Disaster Relief, stimulation of international relationships and trade, plus assisting law enforcement through emerging technologies, innovative back-end processing, and operational needs.

**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.

**Make a Bouncing Ball with Polymer Chemistry** CSL 2nd-Floor
Make a polymer bouncing ball out of common household items.

**Show-Me Geology** CSL 2nd-Floor
Learn about the importance of rocks and minerals in everyday-life, start a mineral collection.

**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.

**Engineering & Electromagnets (Aztec Science Camp)** CSL 3rd-Floor
Find your creativity as you complete an engineering design task to withstand “The Crusher” and build an electromagnet. Parents can learn more about Aztec Science Summer Camp.

**Marine Life Touch Tank** CSL 4th-Floor
Learn about Southern California marine life and ecosystems with the Coastal and Marine Institute.

**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)

**Take a Land Cruise on the RP Oceans** GMCS 108
Make waves, move beaches, and measure the Earth’s rotation.

**Regenerating the Human Body with Stem Cells** GMCS 128
Learn how stem cells make-up different parts of the human body and how they repair and replace dead and damaged organs.

**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.

PHYSICS ASTRONOMY (PA building)

**The Lab Zone** PA 119
Hands-on design, building, and testing of your very own project to learn basic math, engineering, and scientific principles.

**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!) though telescopes; hopefully see sunspots.

**Physical Sciences (PS building)**

**Electron Microscope Facility** PS 1
See inside cells magnified thousands of times on our scanning and transmission electron microscopes.

**LIFE SCIENCES (LSS & LSN buildings)**

**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.

**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.

**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.

ENGINEERING (Mediterranean Garden & E building)

**Engineering Village** Mediterranean Garden
Various displays including: mechanical engineering machine shop, aerospace, and robotics. Facility tours start at 10:30am, 11:30am, and 12:30pm.

**BioEngineer for the Day** ENG 221
Learn how electrical signals are measured from the muscles and brain and used to control devices from games to prosthetic limbs.

http://sdsu.edu/sampler

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