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
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
Learn about Forensic Science, develop fingerprints utilizing different methods.

X-ray Crystallography
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
Make a polymer bouncing ball out of common household items.

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

Laser Applications in Chemistry and Biochemistry
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)
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
Learn about Southern California marine life and ecosystems with the Coastal and Marine Institute.

Who Cheated? Find out by Using Chromatography
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.

PHYSICS ASTRONOMY (PA building)

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

Planetarium Shows
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
View the Sun (safely!) though telescopes; hopefully see sunspots.

Physical Sciences (PS building)

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

LIFE SCIENCES (LSS & LSN buildings)

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

ENGINEERING (Mediterranean Garden & E building)

Engineering Village
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
Learn how electrical signals are measured from the muscles and brain and used to control devices from games to prosthetic limbs.

GEOLOGY, MATHEMATICS, COMPUTER SCIENCE (GMCS building)

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

Regenerating the Human Body with Stem Cells
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
Use molecular modeling software on computers to construct a molecule and test it for stability.

http://sdsu.edu/sampler

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