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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