

SDSU Science & Engineering Sampler • March 19th 2011 • 9am-2pm Presented by: San Diego State University, College of Sciences & College of Engineering • "Rain or Shine" • http://sci.sdsu.edu/sampler • 619.594.5142

GMCS-245a	BYOB (Build Your Own Butadiene) Chemistry on the Computer Use molecular modeling software to construct a molecule and test it for stability.		GMCS-24	CS-245	5 a	
EBA-110 hemistry. Stop-by from the CSRC.	Computational Science Research Center Showcase Computational Science in cell biology, oceanography, geological sciences, physics, and and pick-up a free 2011 calendar featuring the accomplishments of Graduate Student	sics, and ch Students fi	chemistry. Stop	trv. Stop-b	-bv	
GMCS-405 Is. See interactive ations of research	Computer Science and Sound: Dolphins and You Visit the Audio Lab where we use computer science to analyze dolphin and whale sour kiosks from our collaborators at Scripps Institution of Oceanography, periodic demonst tools, and you can learn how to visualize your own voice using spectrograms.	demonstrat	ds. See interact	e interactiv	tive	
will show you how	Conservation with Critter Transmitters Learn how we keep track of animals in our studies. One of the most difficult parts of keeping track of them - they hide, move, and sometimes travel really long distances. We to use radio telemetry equipment and lead you on the chase to help us find an animal rig	ances. We w	tudying animals will show you h	g animals i low you hov	s is 10w	
CSL-226	CSI meets CSU Learn about Forensic Science, detect blood, develop fingerprints, and discuss DNA.	S DNA.	CSL-2	CSL-22	26	
CSL-326 ts will discuss the	DNA Sequencing Facility View a Genetic Analyzer in the Biology Department's DNA Sequencing Facility. Scienti production of DNA sequence data.	y. Scientists				
PS-1 high and low-tech	Electron Microscope Facility View a transmission electron microscope, a scanning electron microscope, and other light microscopes in operation.	and other hi				
are those with a	Exploration of the Human Body Explore the amazing world of the Human Body. Look into a microscope to see the incr and beauty behind bone and muscle. Observe healthy hearts and brains, and com diseased heart and brains. Watch healthy lungs expand, and contrast them with the lu	and compa	edible organizat pare those with	organizatio hose with	tion h a	
GMCS-555 ves/ habitats, (b) ogether to secure	Flying and Chasing Robots! See several robot projects including: (a) helicopter robot for monitoring natural rese an assistant robot that follows a walking person, and (c) several guard robots working a building.	tural reserve s working to	ves/ habitats,	nabitats, (b	(b)	
amily Village ing the Fall 2010	I Want My Scientific MTV Come see self-produced, viral music videos created by SDSU's biology students du semester.					
CSL-302 Ind environmental	Laser Applications in Chemistry and Biophysics A wide range of lasers, used in multi-photon nonlinear laser techniques for biomedical applications, will be on display.	omedical an				
LSN-219 rd their responses.	Make and Measure Your Own Weather Learn how a weather tower works by creating their own weather and seeing sensors rec	nsors record				
GMCS-132 e instrumentation	Mass Spectrometer Laboratory Tour and presentation in the Nu Plasma Mass Spectrometer Laboratory highlighting t and associated Geochemical research.	lighting the				
PA-209 e you on a tour of	Planetarium Show Come to the planetarium and see the night sky as you have never before. We will tak the stars and answer your questions about the universe. (20-minute shows)	/e will take	PA-2 e you on a tour	PA-20 on a tour c	<mark>09</mark> r of	
GMCS-108	RP Oceans Land Cruise: Wave tanks to see what waves do Demonstration of wave tanks, a beach tank, and a Foucault pendulum.	io	GMCS-1	MCS-10	08	
LSN Lobby chronic infections et at Life Sciences	SDSU BioScience Center Tour Come tour our innovative research facility whose mission is to understand how contribute to cardiovascular disease and other chronic, age-related diseases. (Tours mo North Entrance)	and how ch (Tours meet	chronic infectio	c infection	ons	Rec
CSL-120 fires, floods, and	SDSU VizCenter Helping the World See how the VizCenter helps with disasters such as earthquakes, tsunamis, volcanoe	volcanoe <u>s,</u> 1	CSL-1 , fires, floods, a	CSL-12 floods, <u>an</u>	<mark>20</mark> and	

See how the VizCenter helps with disasters such as earthquakes, tsunamis, volcanoes, fires, floods, and diseases like Cholera and Malaria.

Inside the Human Brain CSL-422 now magnetic resonance imaging (MRI) can be used to image the human brain. They will also see rays that scientists are using MRIs to examine how the structure of the brain and patterns of activity e in children as they mature into adulthood.

and Minerals: hands-on identification and demonstration of common and industrial minerals. uakes: hands-on models to demonstrate the properties of earth movement.

ing the Beans: What Do You Know About Your Favorite Thing? LSN-132 a computer-based semantic-networking tool to capture how and what you are thinking.

er-Cool IceCream: The Cool World of Cryogenics nitrogen instant ice cream, balloon freezing, superconducting levitation, and much more. **PA-215**

scopic Views of the Sun the Sun (safely!) though telescopes; hopefully see sunspots. Brief, informal presentation about the nd stars, and how "space weather" can affect the Earth.

Sciences of Complexity: Old Questions and New Answers P-148 re: Origins-of-order in the universe, developmental biology, sources of fluctuations in the stock et, and the sudden rise and fall of civilizations.

tex Breakdown on a Delta Wing onduct an experiment in SDSU's water tunnel to understand strong tip vortices on delta-wings. tion of dye particles will visualize the tornado-like vortices that appear under mild-angled attack. neering Village)

ugh the Looking Glass: Explore Patterns with Math Tools ITS Front in mathematical principles through hands-on explorations of projective geometry, prime numbers, imilaritv.

Cheated? Find out by using Chromatography CSL-524 tudents are suspected of forging the answers to an exam. You need to determine if one of the pens on a suspect matches the ink from the exam. Use the same technique the police use to analyze ink.

y Crystallography ists and biologists learn how a molecule works by studying its three-dimensional structure, even rgest molecules are too small to be directly observed by the most powerful light microscopes. The CSL-231 on? Prepare a crystal of the sample and use x-rays!

neering Village: 7 Events! rospace Engineering Wind Tunnel (2)Visualization of Space Shuttle Aerodynamics (3)Witness an quake in Action (4)Real-time Rainfall and Erosion; (5)Fabrication/Manufacturing (6)Design & ling (7)Check out the Robotics.



FREE Activities for the Entire Family!