Exploring Your Universe 2011
November 12th, 12 – 8pm
Schedule

DAYTIME ACTIVITIES (12:00 – 5:00pm):

Astronomy (Court of Sciences unless otherwise noted):
- How the Sun works and solar telescope viewing
- Stellar Evolution
- Bottle Rockets
- Light and Spectra Lab (Mathematical Sciences 5203)
- Comet Making Demo
- Pocket Solar System and Asteroids
- Constellation Detectives
- Discovery methods for finding new worlds beyond our solar system
- Planetarium Shows (Mathematical Sciences 8th floor): Every half hour starting at 12:30 pm! **Pick up tickets to planetarium at the Information Booth.**

Physics (Physics and Astronomy Building - PAB):
- See radiation in a Cloud Chamber
- The science behind Optical Illusions
- Discovering the Speed of Sound
- Electricity and Magnetism
- Physics Demo Shows (rm 1-425): 2:30 -3:30, 4:00 – 5:00
- Singing Tesla Coil Show (rm 1-425): 2:00 – 2:30, 3:30 – 4:00
- Life of Tesla Video (rm 1-425): 5:00 - 6:00

Atmospheric and Oceanic Sciences (meet in lobby of Mathematical Sciences):
- Inside Look at Weather Observations and Forecasting Tour (requires walking up some stairs): 1:00-2:00 pm, 2:30-3:30 pm

Earth and Space Sciences (Geology Building):
- Spectacular Rock and Mineral Displays
- Fossil and Fossil Cast Displays
- Earthquake Education Demonstrations
- Stalactite Collection on Display
- Petrified Wood Collection on Display
- Understanding Fluid Dynamic Systems
- Understanding Meteorites and MeteorWrongs
- Making Fossil Casts
NASA Mission Representation (Geology Building/ Court of Sciences):
- Diviner Lunar Radiometer Experiment - http://diviner.ucla.edu/

UC CEIN - Center for Environmental Implications of Nanotechnology (Court of Sciences):
- What is nanoscience, and what is special about nanoscale science and engineering?
- Hands-on activities for all ages. Q&A with scientists

CNSI High School NanoScience Program (Court of Sciences):
- Learn about nanoscience and nanotechnology.
- Hands-on activities about Self-Assembly, Superhydrophobic Surfaces, and Magnetic Fluids!

Environmental Science (Court of Sciences):
- Climate Change: Causes & Consequences
- Sustainable Practices
- Solar Power Demo

Chemistry (Court of Sciences):
- Paint your nails using water as an applicator
- Explore the DNA of a strawberry
- And more!

Engineering (Court of Sciences):
- See the Baja Dune-buggy designed and built by students
- Learn about cool things engineers do and the wide scope of engineering

OSA/SPIE (Optical Society of America/The International Society for Optical Engineering) (Court of Sciences):
- Explore how optics work!
SCIENTIFIC TALKS (located in Mathematical Sciences Room 5200):

1:30-2:00 pm: David Jewitt (Earth and Space Sciences)
"DAWN: NASA's Mission to Asteroid VESTA"

2:30-3:00 pm: Richard Kaner (Chemistry)
"Fun With Chemistry"

3:30-4:00 pm: Matthew Malkan (Astronomy)
"Lookback Time: What's New in the Young Universe"

4:30-5:00 pm: Andrea Ghez (Astronomy)
"The Galactic Center Project: Uncovering the Pulse of our Galaxy"

NIGHTTIME ACTIVITIES (5:00-8:00pm):

Astronomy (Mathematical Sciences 8/9th floor):
- Planetarium Shows (continued)
- Telescopes Viewing (with extra participation from the LA Astronomical Society – TBD)

Physics (Mathematical Sciences 8/9th floor)
- Shadow Wall
- Light Tunnel