

BIANCHI PLANETARIUM SCHEDULE OCT-NOV-DEC 2009

DURING SECOND HALF OF FALL 2009 SEMESTER PLANETARIUM PROGRAMS WILL BE GIVEN EVERY OTHER FRIDAY NIGHT AT 7:30pm and 8:30pm STARTING OCT-23 WEATHER PERMITTING TELESCOPE VIEWING OF CELESTIAL OBJECTS USING CSUN'S CAMPUS OBSERVATORY WILL FOLLOW EACH PROGRAM.

Oct-23 7:30pm Autumn Sky Show.

Come and see and learn about stars and constellations and planets visible in the sky during the autumn of this year.

8:30pm Rainbows, Red Sunsets and Rocket Science Revisited.

What do patterns of light from the sky reveal about particles in the air? Atmospheric particles – aerosol, clouds droplets, and ice crystals – come in many sizes and shapes, and their interaction with sunlight affects Earth's climate and gives many spectacular atmospheric optical displays. From blue skies, red sunsets and green flashes to rainbows, arcs and halos, these effects are not only beautiful to behold but gives us clues to the nature of the airborne particles that cause them. This talk will look at some fundamental principles of atmospheric optics – to explain how several of these wonderful; visual displays are formed. The talk will be presented by Dr. David J. Diner who is a Principal Investigator with JPL's Multi-angle Imaging Spectroradiometer – a satellite which has been orbiting Earth since 1999.

Nov-06 7:30pm Autumn Sky Show.

Come and see and learn about stars and constellations and planets visible in the sky during the autumn of this year.

8:30pm Strolling Through the Heavens – An Introduction to the constellations of the Summer and Autumn Skies.

We all know constellations have names, but do we know why and where do those names come from? In this program a CSUN Physics and Astronomy student Mr. John Hodgson will explain the stories and mythology behind the constellations and why heroes, animals and objects were eternalized in the night sky.

Nov-20 7:30pm Autumn Sky Show.

Come and see and learn about stars and constellations and planets visible in the sky during late the autumn of this year.

8:30pm Light Years from Andromeda: A journey between two galaxies spans human history – and reveals the secrets of the cosmos.

A beam of light leaves a star in the Andromeda Galaxy and travels across the void of intergalactic space. For much of its journey the light traverses the nearly empty, cold, dark space between galaxies. In the meantime, on a planet in a neighboring galaxy, intelligent life begins to evolve. As the light speeds across the space over the course of many centuries, the primitives on the planet form culture and civilization and begin to wonder about the universe around them. Their awareness of the space increases as the beam of light approaches their planet. When the light finally reaches the planet, the planet's current inhabitants will begin to use the newly arriving light to conduct scientific study and exploration of the galaxy from which the light came – and beyond.

Dec-04 7:30pm Autumn – Winter Sky Show.

Come and see and learn about stars, constellations and planets visible in the sky during late autumn and early winter this year.

8:30pm The Really Big Picture: Things We Know About the Universe, and How We Know Them.

The structure and nature of the universe has puzzled and fascinated people for thousands of years. Only recently, however, has it been possible to measure some of its fundamental properties. What do we know, how do we know, and what might we learn in the future? All these topics will be discussed in this last program of our fall 2009 semester which will be given by Dr. Charles R. Lawrence who is a Principal Scientist in Astrophysics at JPL in Pasadena.

For show information: call 818-677-5601, or go to:

www.csun.edu/phys/announcements_and_planetarium/planetarium.html

For ticket information: call 818-677-2488

Tickets: general admission - \$5 for one show, \$8 for two shows
student admission - \$3 for one show, \$5 for two shows