



August 2010
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Central Texas ACS

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www.CentralTexasACS.org

Central Texas ACS Meeting
Tuesday, September 14th, 6:30-8:30 PM (Dinner 7:00, Talk 7:30)

Saturn's Rings through Cassini's Eyes: New Understanding and New Questions

Dr. Mark C. Lewis
Department of Computer Science, Trinity University

The County Line On The Hill
6500 Bee Cave Road, Austin, TX
(west of Loop 360 on Bee Cave Rd, see map)
\$10 for members/adults, \$5 for students
RSVP by email by Sept 10 to acs2010@stedwards.edu or call (512) 448-8461

Abstract

Saturn's rings are among of the most beautiful sights in our Solar System. They were originally discovered by Galileo four hundred years ago, but his telescope wasn't sufficient for him to figure out what they really were. For the last five years, the Cassini probe has been orbiting Saturn, providing us with astounding images and vast quantities of scientific data. This information has greatly increased our understanding of the ring system, but it has also opened a whole new set of questions. This talk will look at our evolving view of planetary rings. We will also take a photographic tour of many of the highlights of Saturn's rings as seen by Cassini and discuss what aspects of the system still remain unexplained.

Dr. Mark C. Lewis

Dr. Lewis is an Associate Professor of Computer Science at Trinity University. He received a Ph.D. in Astrophysics and Planetary Science and a M.S. in Computer Science from the University of Colorado at Boulder. He received his B.S. degree from Trinity University. His research in computer science and astrophysics includes simulations of the dynamics of planetary ring systems. He has collaborated with scientists at the University of Colorado at Boulder and elsewhere in analyzing data from NASA's Cassini probe.

Central Texas ACS: August 2010

Calendar of Events

Central Texas ACS Meetings Fall 2010

Monday October 18th

6:30-8:30 PM (Dinner 7:00, Talk 7:30)

Politics in America:

National & State Elections 2010

Dr. Brian W. Smith, St. Edward's University

Tuesday, November 9th

6:30-8:30 PM (Dinner 7:00, Talk 7:30)

Nontraditional Careers for Chemists

Lisa Balbes, Balbes Consultants

August Chemical Anniversaries

by *Leopold May*

August 1, 1885 – Georg von Hevesy was born. He was a researcher in radioisotopes and discovered hafnium (Hf, 72) in 1923 with Dirk Coster. In 1943, he was awarded the Nobel Prize in Chemistry for his work on the use of isotopes as tracers in the study of chemical processes.

August 4, 1859 – William Sutherland was born on this date. He did research on the relationship between viscosity of gas and temperature using Sutherland Constant, dissolution of strong electrolytes; viscosity of gases and liquids, molecular attraction, valency, ionization, ionic velocities, atomic sizes, and an electronic theory of matter.

August 6, 1960 – The first publication on the first working laser was published in the paper, "Simulated optical radiation in ruby," by Theodore H. Maiman in *Nature*, 197, 494 (1960).

August 27, 1859 – Edwin Drake discovered petroleum in Pennsylvania.

August 29, 1834 – Hermann J. P. Sprengel was born. He was a researcher in discharge tubes and invented the vacuum pump.

August 30, 1884 – Theodor Svedberg was born on this date. He was a researcher on the ultracentrifuge for determining molecular weights and sizes of proteins for which he was awarded the Nobel Prize in Chemistry in 1926 for his work on disperse systems.



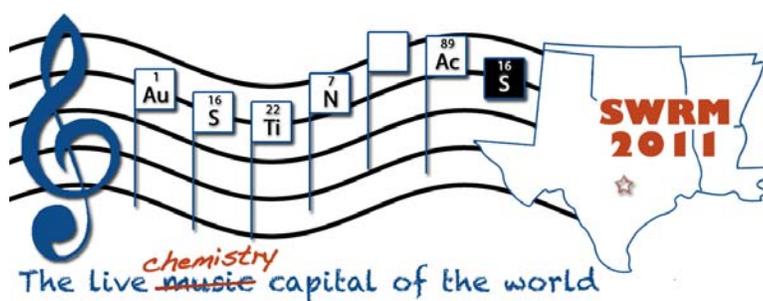
66th SWRM / 62nd SERMACS
New Orleans 2010

Great Chemistry in the Crescent City

Come on down to the Big Easy for the joint meeting of the 66th Southwest and 62nd Southeastern ACS Regional Meetings, which will be held in New Orleans, November 30-December 4, 2010, at the Hilton Riverside Hotel.

Symposia will be held in all disciplines of chemistry, and a special symposium and plenary lecture will examine the BP oil spill. Early registration continues until November 15, abstract submittal is open until October 15, and hotel reservations are now open.

Find the latest and most complete information on the meeting web site, www.swrm.org.



Mark your calendars November 9-12, 2011
for the 2011 Southwest Regional Meeting
hosted by the Central Texas Section
in Austin, Texas