



College of
Science
Department of Physics
& Astronomy

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Weekly Calendar and News

November 12-18, 2016

LSU Physics & Astronomy in the News

- Dr. Gabriela González featured as HENAAC “Scientist of the Year” in Technica Great Minds in STEM magazine.
<http://www.lsu.edu/physics/news/2016/11/TechnicaOct2016Gonzalez.pdf>
- Medical physics PhD student Joe Steiner competes in 3 minute thesis (3MT) competition and discusses prostate imaging techniques: [The Ultimate Elevator Challenge: 5 College of Science Students Deliver 3-Minute Science.](#)

Events

- **Saturday Science:** “[The Mississippi River Delta: How it formed, why it is disappearing and why we should preserve it](#)” by Sam Bentley, LSU Geology professor
Sat. Nov. 12, 10:00 - 11:15 AM, Room 130 Nicholson Hall
- **LaCNS Seminar:** “[Seeing the World with Neutron Vision](#)” by Dr. Daniel Hussey
Mon. Nov. 14, 3:00 PM, Room 1008B CCT Digital Media Center
- Join Professor Ravi Rau for an art discussion panel at the Shaw Center for the Arts on Sun. Nov. 13, 1:30 - 3:30PM @ 100 Lafayette St. downtown Baton Rouge
- **No colloquium this week**
- Thanksgiving Holiday: Students have a half day on Nov. 23 starting at 12:30 p.m. LSU's administrative offices will be closed Thursday, Nov. 24th and Friday, 25th.

***Faculty & Students join us
Tues., Nov. 15 at 3:30pm
Room 435 Nicholson***

Learn new methods and tools to help you:

- **Share your science with a broader audience**
- **Increase your citations**
- **Share content that will help you make the case for federal support of your research**
- **Use social media to gain research funding, obtain jobs, and increase scientific research collaborations**

Communicating Your Science & Broader Impacts

**Make a Difference in Your Scientific
Community **and** Beyond**

Take the Survey: bit.ly/lsuscicomm

Workshop Dates:

Chemistry Oct 12, 3-4:30pm, Choppin

Math Oct 27, 3:30-4:30pm, Lockett

Physics Nov 15, 3:30-5pm, Nicholson

Geology Nov 16, 3:30-5pm, Howe-Russell

Biological Sciences / LSUMNS TBA

LSU

College of

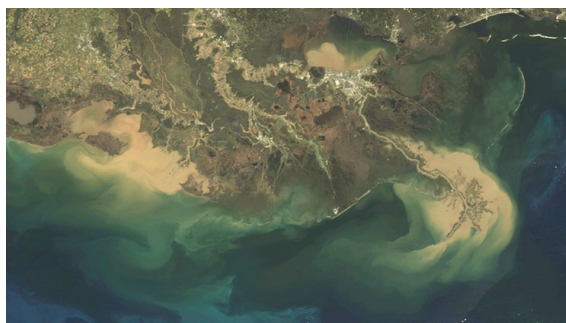
Science

@LSUscience

SATURDAY SCIENCE

The Mississippi River Delta: How it formed, why it's disappearing and why we should preserve it

A public lecture by
Dr. Sam Bentley



About the Speaker

Dr. Bentley is a professor at LSU in the Department of Geology and is director of the LSU Coastal Studies Institute. Though his students work on projects from the tropics to the Arctic, much of his interest in Louisiana focuses on Mississippi Delta conservation and restoration. Dr. Bentley's talk will explore the geological evolution and human alteration of the Mississippi River Delta. He will also explore why it is important to conserve the Delta, and how we plan to conserve the Delta, using the State of Louisiana's Coastal Master Plan.

12 November 2016, 10-11:00 a.m.

Room 130 Nicholson Hall, LSU

LSUSaturdayScience@gmail.com



Monday, November 14
3:00 pm
1008B Digital Media Center
Louisiana State University

Seeing the world with neutron vision

In this talk, I'll discuss how neutron imaging has benefited fuel cells, how one can image microstructural details in crystals and polymers, and introduce the idea of the neutron microscope. Neutrons primarily interact with matter via the strong nuclear force (as opposed to the electron density) and so provide a complementary view of the world compared to more conventional probes of matter. In particular, neutrons have a very high sensitive to hydrogen while being very insensitive to common metals such as aluminum. This has enabled neutron imaging to play a key role in understanding the water transport in hydrogen fuel cells. Because neutrons can also be thought of as both particle and wave, it is possible to create phase images which can resolve smaller changes than standard imaging, and also reveal structures that are much smaller than the spatial resolution of the image. An ongoing challenge in any neutron scattering or imaging measurement is the inherently low neutron intensity as compared to what is possible at modern x-ray synchrotrons. This is partly due to the difficulty in focusing neutrons as the refractive index differs from one by only 1-10 ppm. A new reflection base lens technology shows great promise to create the world's first practical neutron microscope.

SEMINAR SERIES 2016



Guest Speaker

**Dr.
Daniel
Hussey**

Staff Scientist,
Neutron Imaging
Facility

NIST, Gaithersburg,
MD

Free and open to the public



www.lsu.edu/physics/lacns



Join us for some fun and exciting events this weekend.



PAINTING COLOR

Steven Alexander, Siri Berg, Gabriele Evertz, Jane Logemann,
Robert Swain, Stephen Westfall, and Sanford Wurmfeld
Curated by Susan Bonfils

October 30, 2016 - January 6, 2017

Artist Reception: Saturday, November 12, 2016, 6:00 p.m. - 8:00 p.m.
Visiting artists Sanford Wurmfeld and Stephen Westfall will be at the reception.
Come say hello!

Panel Discussion: Sunday, November 13, 2016, 1:30 p.m.-3:30 p.m.
Join us on Sunday afternoon for a panel discussion on Color and Art featuring:

Melissa R. Beck – LSU Associate Professor of Psychology
Paul Dean – LSU Associate Professor of Art/Graphic Design
A. Ravi P. Rau – LSU Professor of Physics
Gregory Schufreider – Moderator, LSU Professor of Philosophy
Stephen Westfall – Visiting Artist
Sanford Wurmfeld – Visiting Artist

Light refreshments after discussion.
All events are free of charge and open to the public.

LSU School of Art - Glassell Gallery - Shaw Center for the Arts
100 Lafayette Street, Baton Rouge, LA 70801 225-389-7180

Image: Gabriele Evertz, *The Black Room Series (For Sonia D.)*, Acrylic on canvas, 60 x 60 inches, 2013.

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School of Art