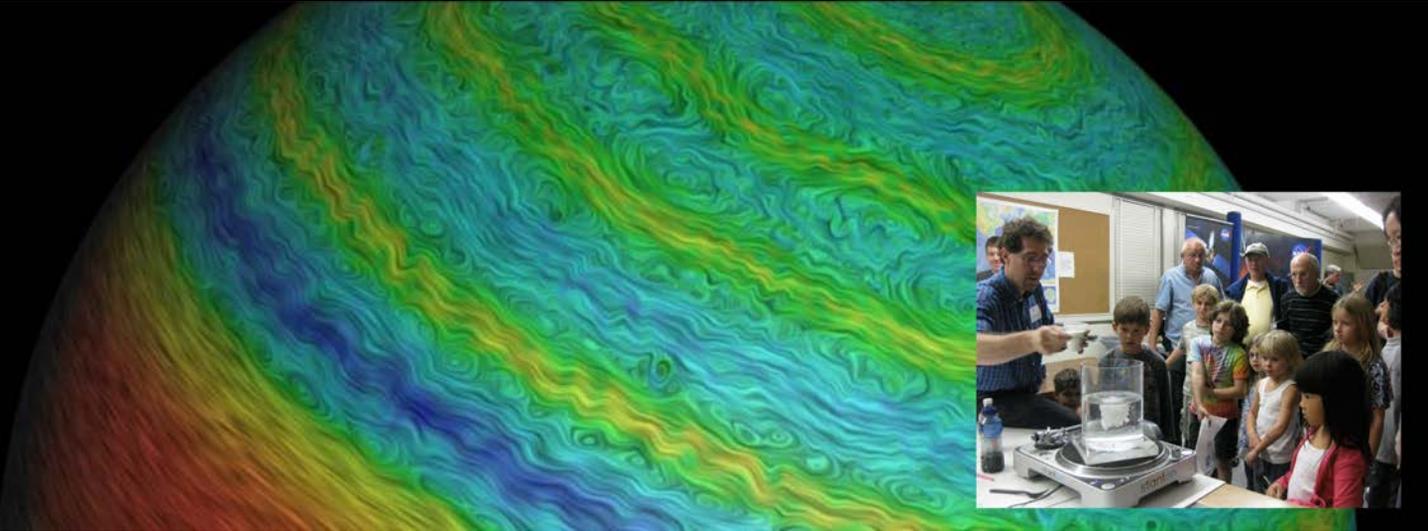


Generating Jovian Jets in a Giant Gyrating Jacuzzi

Tuesday, June 13, 2017, 7-8 PM, doors open at 6:30 PM
Page Center at SNARL, 1016 Mt Morrison Rd, Mammoth Lakes, CA



Dr. Jon Aurnou, Professor of Planetary Physics, Department of Earth, Planetary & Space Sciences, University of California, Los Angeles

Jon Aurnou studies geophysical fluid dynamics by way of laboratory experiments and massive computer simulations. Working at UCLA since 2002, Prof. Aurnou typically focusses on understanding planetary magnetic field generation as well as the large-scale flows observable on planetary surfaces (like Jupiter's jets and vortices). His group has also been building up a library of educational outreach videos showing small-scale experiments of planetary-style flows (<https://www.youtube.com/user/spinlabucla>).

Jupiter is girded by about 30 strong atmospheric jets — visible atmospheric cloud bands and belts that encircle the entire planet along various lines of latitude. NASA's Juno spacecraft is presently in a low altitude orbit around Jupiter and is acquiring incredible images of the Jovian cloud layer in addition to high resolution gravity and magnetic field data. One of the main goals of Juno is to finally understand how Jupiter's amazing jet flows operate. In this seminar, I will present some fresh Juno images of Jupiter and then do my best to explain how Jovian-style atmospheric jets and vortices form, using a mix of movies from my lab as well as through participation in hands-on experimentation using our outreach turntables and tanks. So wear clothes you don't mind getting food coloring on, and let's see if we can learn new things while making a bit of a mess! This seminar will be as qualitative and experiential as I can make it; young people are encouraged to attend and well-behaved children are welcome.

Please arrive early to park, secure a seat, snack and mingle. Seminars are geared to adult audiences, however young people are encouraged to attend and well-behaved children are welcome. Visitors are not allowed to bring dogs to SNARL, so please leave pets at home. This week's seminar sponsored by Great Basin Bakery, Bishop, CA.

