PLEASE POST!

The **C**enter for **O**cean **S**ciences **E**ducation **E**xcellence-**West** invites you, your colleagues and students, family and friends to learn more about Humboldt Squid! Admission is FREE.

COSEE-West presents

the second free lecture in the 2009-2010 series

Humboldt Squid

by Dr. William Gilly

Stanford University

at California State University, Long Beach

1250 Bellflower Blvd, Long Beach, CA 90840, in Peterson Hall 1, room 141 (PH1-141)

on Wednesday, January 27, 2010

6:30 - 7:30 pm: Public lecture and Q&A
7:30 - 8:30pm: Educators' Session

William F. Gilly received a BSE (Electrical Engineering, 1972) from Princeton and a Ph.D. (Physiology and Biophysics, 1978) from Washington University. He had additional training at Yale University, University of Pennsylvania and the Marine Biological Laboratory, Woods Hole. He has contributed to our basic understanding of electrical excitability in nerve and muscle cells in a wide range of organisms ranging from brittle-stars to mammals. Much of this work employed the giant axon system of the squid as an experimental model system for molecular and biophysical approaches. Additional studies with living squid revealed unexpected complexities in how the giant axon system controls escape responses, and how mechanisms governing that control are modified during development and by environmental factors.

Professor Gilly's current research program on squid concentrates on the behavior, physiology, and ecology of *Dosidicus gigas*, the jumbo or Humboldt squid. Fieldwork in the Gulf of California and off California employs electronic tagging and acoustic methods in order to track vertical and horizontal movements and to estimate biomass. Laboratory studies at Hopkins Marine Station and onboard research vessels focus on hypoxia tolerance and on control of chromatophores, the organs in the skin that allow squid to change color so rapidly. Oceanographic measurements are used to characterize temperature and oxygen levels in relation to vertical movements. Graduate students in Professor Gilly's lab are studying the early life history of Humboldt squid and the cause of their seasonal migrations to Monterey, California.

Members of Dr. Gilly's lab have gone on to faculty positions at the University of Washington, University of Utah, University of Pennsylvania, Albert Einstein Medical College & University of Puerto Rico.

Directions & parking: Take the 405 fwy, exit at Palo Verde Ave and head south (from the north, it's a right turn onto Palo Verde; from the south, it's a left turn) Passing Stearns Ave & Atherton St, Palo Verde ends at a gated community. Turn right onto State Drive East. On the left, will be the CSULB Foundation Building (and parking lot). Park there. The cost is $4. It's a 7-10 min. walk to the room. If that lot is full, park in lot 14 off of Atherton. **Please note:** it will be the first week of classes and traffic may be crazy, so please allow extra time.

For map and directions, visit http://www.csulb.edu/maps/

K-12 teachers may get documentation for Professional Development hours.

Educators: Pre-register for the educators' session to receive content materials and please register by Jan 20, 2010 to be included in the head count for a light supper.
by e-mail to cosee.west@gmail.com
or call the UCLA COSEE-West office at 310-206-8247.

For information about the COSEE-West program, visit http://www.usc.edu/org/cosee-west/

Supported by grants from the National Science Foundation to USC, UCLA & the College of Exploration for COSEE-West