

What does the future hold for Antarctica?



The Center for Ocean Sciences Education Excellence-West invites you, your colleagues and students, family and friends, to learn more about this remote, beautiful, and threatened part of our world. Admission is free.

"Ecological responses of Antarctic krill to environmental variability:
Can we predict the future?"

by Dr. Robin Ross

University of California Santa Barbara

Wednesday, March 21, 2007

at the Santa Monica Alternative School House

2525 5th Street, Santa Monica, CA 90405

5:45-6:45 pm: K-12 teachers'/informal educators' session

7:00-8:00 pm: Public lecture in the school auditorium

Dr. Robin Macurda Ross, a Research Biologist at the University of California, Santa Barbara, received her Master's and Ph.D. degrees in Biological Oceanography from the University of Washington. She then lived in Australia for two years with her husband and collaborator Langdon Quetin, conducting research on crustaceans found in mangrove swamps and on the coral reefs, as well as doing some feeding experiments with Antarctic krill in the lab.

Robin and Langdon then moved to UC Santa Barbara and from there they have conducted field research in the Antarctic since 1981. Their research focuses on the energetics of Antarctic krill (*Euphausia superba*), with the goal of understanding the strategies and adaptations that enable these small shrimps to succeed in an environment of such extremes in food supply and environmental conditions. They are particularly interested in the dynamics of interactions between larval Antarctic krill and their winter pack ice habitat.

From 1990 to the present they have also participated in the Palmer LTER (**L**ong-**T**erm **E**cological **R**esearch) program, 1 of 26 sites currently in the LTER Network. The Palmer LTER is in a region west of the Antarctic Peninsula that is experiencing the most rapid warming on the planet, with over 80% of the glaciers retreating. Drs. Ross and Quetin are documenting cycles or trends in the distribution and abundance of Antarctic zooplankton, including krill, that show up within the multi-year data set.

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- Additional content information and classroom materials will be provided and refreshments will be served in the pre-lecture educators' session.
 - Teachers & informal educators who attend both the educators' session & the lecture may be paid a stipend of \$50.
 - K-12 teachers may get documentation for Professional Development hours upon request. This event counts toward credit for COSEE-West UCLA Extension and LAUSD salary point courses.

TEACHERS/EDUCATORS: To register for the pre-lecture session,
contact Peggy Hamner at UCLA, tel: 310-206-8247, fax: 310-206-3987,
e-mail: cosee.west@gmail.com

For more information about COSEE-West programs for teachers and to register for other events, please visit our web site, <http://www.usc.edu/org/cosee-west>

Supported by grants from the National Science Foundation to USC & UCLA for COSEE-West and to the Los Angeles Unified School District for LA-SP. and a grant from Quiksilver, Inc. to USC