

AN INTERNATIONAL GRADUATE TRAINING COURSE IN ANTARCTIC BIOLOGY

"Integrative Biology and Adaptation of Antarctic Marine Organisms"

Sponsored by the National Science Foundation

Offered in Antarctica



January 4th to February 4th, 2006

Open to students and researchers at the graduate, post graduate, and professorial level

What Focus?

The emphasis of this month-long biology course in Antarctica will be on integrative biology, with laboratory and field-based projects that will be focused on studying adaptations in extreme environments. Modern laboratory facilities for experimental work, sophisticated operational support for field collection, and offering the course in Antarctica make this course unique. A diverse teaching faculty will offer students the possibility of working with a wide range of Antarctic organisms (bacteria, algae, invertebrates and fish), as well as working at different levels of biological analysis (molecular biology to whole organisms).

For Whom?

This NSF-sponsored course will accommodate 20 students and is open to all nationalities and to applicants from any country. Applications are invited from graduate students, postdoctoral-level researchers, and junior faculty members who are interested in the biology of Antarctic organisms.

How Much?

Full scholarships are available to each student accepted into the course. Scholarships will cover the cost of travel to and from your home institution to Antarctica, as well as room and board during the course.

Where?

The course will take place in Antarctica, at the Science Center located at the United States Antarctic Program's base at McMurdo Station. The on-site laboratories are equipped with excellent capital equipment for studying organisms at different levels of biological organization, ranging from molecular biology, to biochemistry, to physiology, and for studies of species diversity.



(Photographs of course participants working in Antarctica)

By Whom?

In addition to lectures from other scientists working in Antarctica, the following faculty will be teaching the course in January 2006:

Dr. Donal Manahan, Course Director, University of Southern California -- Invertebrate development and molecular physiology

Dr. Mark Denny, Stanford University -- Biomechanics

Dr. Deneb Karentz, University of San Francisco -- Photobiology and phytoplankton ecology

Dr. Antonio Quesada, Universidad Autonoma de Madrid -- Photobiology and diversity

Dr. Alison Murray, University of Nevada -- Microbial ecology and genomics

Dr. George Somero, Stanford University -- Biochemical adaptation

Applications must be received by SEPTEMBER 1, 2005

For more information about this training program and for on-line applications, please see:

<http://antarctica.usc.edu>