

# *Understanding Noise Impacts on Marine Animals*

## *~ National Acoustics Lecture Series ~*

A series of educational lectures and discussions of natural and human uses of sound in marine environments, how marine animals hear, and how they may be affected by human noise.

**National Aquarium, Washington D.C.**  
**U.S. Department of Commerce Building Auditorium**  
**14th & Constitution Ave, NW**  
**August 5<sup>th</sup>, 2004 ~ 2:00 p.m.**

**Dr. Brandon L. Southall**

NOAA Fisheries Acoustics Program, University of California, Santa Cruz  
*"Marine Mammal Hearing and the Effects of Noise"*

**Dr. William T. Ellison**

President and Chief Scientist, Marine Acoustics, Inc  
*"Baleen whales use their sounds to navigate:  
implications for environmental noise issues"*

This educational lecture is the seventh in a series of 14 lectures being delivered in 2004 by the NOAA Fisheries Acoustics Program and partners from the scientific research, conservation, and aquaria communities around the United States to increase public knowledge about human noise and marine animals. The series is entitled "Marine Animals and Human Noise" and runs from March through November. The purpose of these events is to discuss the current state of scientific knowledge about types and uses of human sound in marine environments, characteristics of sound and marine animal hearing, and biological and behavioral factors relevant to the effects of human noise. The meetings are intended to facilitate constructive dialogue among concerned parties and will demonstrate a commitment across involved communities to base conservation decisions on the best available science. Each lecture is open to the public and media and features local speakers from academia, government, and marine conservation organizations speaking at venues such as aquariums and research facilities.

