

February 17, 2003

## Caltech Physicist to Give First Mohammed Dahleh Distinguished Lecture

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Santa Barbara, Calif. --Hideo Mabuchi, associate professor of physics and control and dynamical systems at the California Institute of Technology, is giving the inaugural Mohammed Dahleh Distinguished Lecture, "Identification and Control in Quantum Optics," on Feb. 26 at 4:00 p.m. in the Engineering II Pavilion on the campus of the University of California at Santa Barbara (UCSB). The event is open to the public.

The lectureship was created to honor the memory, innovative spirit and contributions of the late UCSB Professor Mohammed Dahleh to the scientific community in general and UCSB in particular.

Mabuchi is an Alfred P. Sloan Research Fellow, an Office of Naval Research (ONR) Young Investigator, and a MacArthur Fellow. His path-breaking research on quantum optics and atomic physics includes fundamental studies in quantum measurement, conditional dynamics of observed quantum systems, real-time quantum feedback, and closed-loop quantum control. He is also known for his work on optical biophysics, which focuses on the use of experimental and mathematical methods from quantum optics to enable biophysical investigations at the few- or single-molecule level.

Dahleh was a professor of mechanical and environmental engineering and the research director of the UCSB Center for Control Engineering and Computation (CCEC). Under his leadership the CCEC became a focal point for technological innovation. Dahleh was an internationally recognized authority in the field of dynamical systems and control theory. His groundbreaking research contributions reflected his wide-ranging interdisciplinary interests, spanning several areas of science, engineering, and applied mathematics.

Today, the many research directions pioneered by Dahleh continue to be followed by a growing number of researchers and to form the starting point for new discoveries and technological advancements. Dahleh died in July of 2000 at the age of 39.

The Mohammed Dahleh Distinguished Lecturers are chosen based on their pioneering work, extraordinary accomplishments, and promise for exceptional contributions.

The lectureship and the accompanying award have been funded by Dahleh's friends and relatives, with the strong support of UCSB's Dean of Engineering Matthew Tirrell, the Richard A. Auhl Professor.

[Note: Questions about the Lecture may be directed to Mustafa Khammash, 805-893-4967.]

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