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Henrik Schmidt

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[Curriculum Vitae](#)

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Research Interests

Arctic acoustics. Shallow water acoustics. Scattering and reverberation due to sea surface and ice roughness. Development of robust algorithms for parameter estimation by matched field processing. Determination of seismic-acoustic propagation and reverberation in range dependent ocean environments as well as anisotropic elastic media. 3-D acoustics in very shallow water with applications to seabed imaging and mine countermeasures using undersea vehicle methods. Acoustic tomography for coastal ocean observation and forecasting.

Teaching Interests

13.863 Ocean Seismo-Acoustics
2.012J (13.014) Mechanics of Structures (formerly Marine Structures and Materials)
2.993 (13.002J) Introduction to Numerical Analysis for Engineers
2.068 (13.853) Computational Ocean Acoustics
2.067 (13.811) Submarine Structural Acoustics (formerly Advanced Structural Dynamics and Acoustics)

Educational Background

Technical University of Denmark M.Sc. 1974
Dept. of Structural Engineering Ph.D. 1978

Scientific and Professional Societies

Danish Center of Applied Mechanics and Mathematics
Acoustical Society of America, Fellow (1989)
Society of Exploration Geophysicists

Honors and Awards

1989 Fellow, Acoustical Society of America
1990-1993 Doherty Professorship in Ocean Utilization
1991-1994 Chair, ASA Technical Committee on Underwater Acoustics



People

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TEACHING STAFF

LECTURERS

RESEARCH STAFF

TECHNICAL STAFF

SUPPORT STAFF

POSTDOCS

VISITORS

FACULTY CLOUD

1994 Chief Scientist for Acoustics, ONR Sea Ice Mechanics Initiative
1996 Chief Scientist ONR Frontal Dynamics PRIMER
1998 Chief Scientist GOATS '98 experiment
2000-2003 Executive Council, Acoustical Society of America
2005-2007 Lead PI ONR Undersea Persistent Surveillance Program
2005 Pioneers of Underwater Acoustics Medal, Acoustical Society of America

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