

## People

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# Arthur B. Baggeroer

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# **Research Interests**

Ocean Seismo-Acoustics Laboratory

### **Teaching Interests**

2.163J (13.741J) /6.455J/12.518J - Sonar, Radar, & Seismic Signal Processing 2.164J (13.742J) /6.456J/12.519J - Array Processing 6.432 - Stochastic Processes, Detection, and Estimation

#### **Education**

Purdue University B.S.E.E. w/ Highest Distinction 1963

M.I.T. (NSF Fellow) S.M.& E.E. 1965

M.I.T. Sc.D. 1968 Doctoral thesis: State Variables, Fredholm Theory and Optimal Communications

#### **Honors and Awards**

National Science Foundation Fellow, 1963 - 1967 Cecil and Ida Green Scholar, Scripps Institution Oceanography, 1990 Chair, Ford Professor of Engineering, MIT, 1991 - present IEEE Oceanic Engineering Society, 1992 Distinguished Technical Achievement Award

National Academy of Engineering, elected 1995

#### **Memberships**

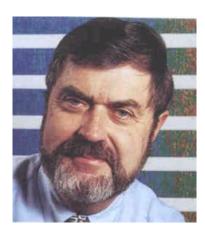
I.E.E.E.(Inst. of Electronic and Electrical Engineers), Acoustics, Speech and Signal Processing Group

Technical Committee on Multidimensional Signal Processing (1981-1986)

Information Theory Group Program Committee (1974)

Best Paper Award Committee (1975)

Communications Group



Oceanic Engineering Group

Associate Editor (1976 - present)

Treasurer (1979 - 1982)

Fellow (1988)

Acoustical Society of America

Chairman, Technical Committee on Underwater Acoustics (1986 - 1989)

Medals and Awards Committee (1990 - present)

Executive Council (elected) (1994 - present)

Fellow (1986)

A.G.U. (American Geophysical Union)

Tau Beta Pi (engineering honorary)

Eta Kappa Nu (electrical engineering honorary)

Sigma Xi (academic honorary)

National Academy of Engineering

American Institute of Physics, Editorial Board, AIP Series in Modern Acoustics and Signal Processing

#### **Government Committees and Service**

Purdue University Visiting Committee 2006

Member, Naval Studies Board 2000

Member, Ocean Studies Board 2000

Acoustic Observatory Working Group 1999 - present

Office of Naval Research

Visiting Committee Member 1999

Scripps Institution of Oceanography

Undersea Weapons and Science and Technology 1999

**Naval Studies Board** 

Technology for Future Naval Forces 1995 - 1997

Undersea Warfare Technology Working Group, Naval Studies Board

Submarine Superiority Technology Advisory Working Group 1995 - present

Joint US-Russian Working Group on Acoustic 1995 - present

Thermometry in the Arctic (ACOUS)

Co-chief Scientist for United States - Russian 1994

Transarctic Propagation (TAP) Experiment

Joint Oceanographic Institutions Panel on the 1994

Dual Use of the Integrated Undersea Surveillance System (IUSS)

Air Force (AFTAC) Review Panel for the Hydroacoustics 1994

Research on the Comprehensive Test Ban Treaty

Naval Studies Board, National Research Council 1993

Panel for Technical Review of Shallow Water Acoustic and Non-Acoustic R&D Programs

Co-chief Scientist, R/V Cory Chouest, ONR 1991, 1993

Special Research Program on Acoustic Reverberation

Ocean Studies Board, National Research Council 1992

Research Opportunities in Ocean Acoustics (Chairman)

Scientific Committee on Ocean Research (SCOR) 1991 - present

Working Group (96) on Acoustic Monitoring of Ocean Climate

National Science Foundation Fellowship Panel 1990, 1993

Ocean Studies Board, National Research Council 1990

Panel on Facilities for Oceanographic Research

Navel Studies Board, National Research Council Opportunities in Underwater Acoustics 1990

Chief Scientist for Acoustics, ONR CEAREX Expt. 1988 - 1989

ONR Board of Visitors, Arctic, Acoustics & Geophysics 1988- 1990

Visiting Committee Member, Scripps Institution of Oceanography 1988

Chief Scientist for ARAMP Experiment 1987

MIZEX Executive Committee for Acoustics 1983 - 1987

Chief Scientist for Acoustics, ONR Marginal Ice Zone Experiment (MIZEX) 1983, 1984

Polar Oceans Climate Panel, National Academy of Science 1984 - 1988

National Research Council Panel on Navy Long 1981 - 1982

Range, Deep Ocean Technology

Chief Scientist for ONR Fram II and Fram IV 1 Ice Stations 1980, 1982

NSF/IDOE Workshop on Multichannel Systems in Oceanographic Institutes 1973

Town of Westwood, MA - Finance Committee 1976 - 1977

Town of Westwood, MA - School Committee 1977 - 1989 (elected for four terms)

Chairman 1979 - 1980, 1982 - 1983

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