

## CURRICULUM VITAE

Kenneth G. Foote

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### EDUCATION

B.S., Electrical Engineering, The George Washington University, 1968

Ph.D., Physics, Brown University, 1973

### PRINCIPAL PROFESSIONAL EXPERIENCE

Associate engineer, engineer, senior engineer, Submarine Signal Division, Raytheon Company, 1968-1974

Postdoctoral fellow, Department of Electronic and Electrical Engineering, Loughborough University of Technology, 1974-1975

Postdoctoral fellow, research assistant, substitute university lecturer, Department of Mathematics, University of Bergen, 1975-1981

Senior scientist, Institute of Marine Research, Bergen, 1981-2001

Senior scientist, Woods Hole Oceanographic Institution, 1999-

### VISITING OR ADJUNCT APPOINTMENTS

Visiting assistant professor of physics, Brown University, 1982-1983

Visiting assistant professor of chemistry, Brown University, summer 1987

Visiting scholar, Fisheries Research Institute, University of Washington, Seattle, summer 1989

Visiting engineer, Centre de Geostatistique, Ecole des Mines de Paris, Fontainebleau, 1991-1992

Guest investigator, Department of Applied Ocean Physics and Engineering, Woods Hole Oceanographic Institution, summers or autumn 1993-1998

Adjunct professor, University of Bergen, 1998-1999

Associated senior researcher, Institute of Marine Research, Bergen, 2003-

### SOCIETY MEMBERSHIPS

Acoustical Society of America (Fellow, 1997)

American Association of Physics Teachers

American Physical Society

IEEE (formerly Institute of Electrical and Electronics Engineers)

IEEE Oceanic Engineering Society (OES)

Sigma Xi

### RESEARCH INTERESTS

Acoustic and optical scattering

Physical and geostatistical methods for resource quantification

Sonar performance evaluation and calibration

## CURRENT PROFESSIONAL ACTIVITIES

IEEE (formerly Institute of Electrical and Electronics Engineers)

Oceanic Engineering Society (OES) Administrative Committee (*Ex officio*), 2001-

OES Technology Committee on Underwater Acoustics (Chair), 2001-

Acoustical Society of America

Editorial Board (*Ex officio*), 2003-

Journal of the Acoustical Society of America: Associate Editor (underwater sound), 2003-

Acoustical Oceanography, Physical Acoustics, and Underwater Acoustics Technical Committees

International Electrotechnical Commission (IEC)

Technical Committee 87: Ultrasonics (U.S. expert, 2007-)

## FIVE RECENT PUBLICATIONS

Francis, D. T. I., and K. G. Foote. Depth-dependent target strengths of gadoids by the boundary-element method. *J. Acoust. Soc. Am.*, 114, 3136-3146 (2003).

Foote, K. G., D. Chu, T. R. Hammar, K. C. Baldwin, L. A. Mayer, L. C. Hufnagle, Jr., and J. M. Jech. Protocols for calibrating multibeam sonar. *J. Acoust. Soc. Am.*, 117, 2013-2027 (2005).

Foote, K. G., R. T. Hanlon, P. J. Iampietro, and R. G. Kvitek. Acoustic detection and quantification of benthic egg beds of the squid *Loligo opalescens* in Monterey Bay, California. *J. Acoust. Soc. Am.*, 119, 844-856 (2006).

Foote, K. G., D. T. I. Francis, and P. R. Atkins. Calibration sphere for low-frequency parametric sonars. *J. Acoust. Soc. Am.*, 121, 1482-1490 (2007).

Pena, H., and K. G. Foote. Modelling the target strength of *Trachurus symmetricus murphyi* based on high-resolution swimbladder morphometry using an MRI scanner. *ICES J. Mar. Sci.*, 65, 1751-1761 (2008).

## FIVE OTHER PUBLICATIONS

Foote, K. G. Optimizing copper spheres for precision calibration of hydroacoustic equipment. *J. Acoust. Soc. Am.*, 71, 742-747 (1982).

Foote, K. G. Linearity of fisheries acoustics, with addition theorems. *J. Acoust. Soc. Am.*, 73, 1932-1940 (1983).

Foote, K. G., H. P. Knudsen, R. J. Korneliussen, P. E. Nordbø, and K. Røang. Postprocessing system for echo sounder data. *J. Acoust. Soc. Am.*, 90, 37-47 (1991).

Foote, K. G. Acoustic sampling volume. *J. Acoust. Soc. Am.*, 90, 959-964 (1991).

Foote, K. G. Coincidence echo statistics. *J. Acoust. Soc. Am.*, 99, 266-271 (1996).

## WEBSITES

Project website for the Pilot Census of Marine Life: <http://www.whoi.edu/marinecensus>, 2000-2002.

Functional specification and materials for the Census of Marine Life, Gulf of Maine Area Program, website: <http://www.usm.maine.edu/gulfofmaine-census/> including, among other things, diverse materials for About the Gulf: Organisms; and Research: Technology, 2002-2006.