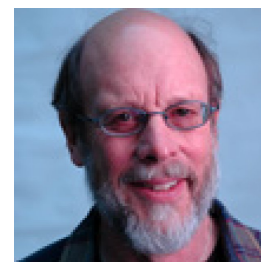


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CURRICULUM VITAE - Revised: February 2014

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Lee Anton Miller, b.24 Jan. 1941. Minneapolis Minnesota, USA. Married. Two children.

Education:

B.A. 1963 Gustavus Adolphus College, St. Peter, Minnesota

A.M. 1965 Harvard University, Cambridge, Massachusetts

Ph.D. 1969 Harvard University, Cambridge, Massachusetts

Thesis Advisers - Professor F.M. Carpenter,

Department of Biology. Harvard University.

Professor K.D. Roeder, Department of Biology.

Tufts University.

Title of thesis - "Hearing in the Green Lace Wing, *Chrysopa carnea* (Neuroptera)" - August, 1968.

Academic Positions:

Teaching Fellow, Harvard University, 1964-65, 1967.

NATO Postdoctoral Fellow, 1968-69.

Vikar Amanuensis (Assistant Professor), Zoophysiological Laboratory B, University of Copenhagen, 1969-70.

Assistant Professor, School of Biological Sciences, University of Kentucky, 1970-72.

Instructor, Marine Biological Laboratory, Wood Hole MA, USA, Neural Systems and Behavior, June-July 1984.

Lektor (Associate Professor) at the Institute of Biology, Odense University/University of Southern Denmark, 1973-from 06 2007 on reduced time.

Emeritus/Guest Researcher since 2011.

Leaves of absence:

Dr. Malcolm Burrows, Department of Zoology, University of Cambridge, England, August 1977.

Dr. Jeffrey Wine, Department of Psychology, Stanford University, California, April 1979 - June 1980.

Dr. Jim Simmons, Dept. of Psychology, Brown University, September 1990 - August 1991.

Marine Biology Research Center, Kerteminde, September 2003 – February 2004.

Major Administrative Jobs

Departmental Chairman, Inst. of Biology, Odense Univ. 1974-1975.

Member of the Faculty Senate, Natural Sciences Odense Univ. 1978-1980.

Member of Study Committees, Faculty of Natural Sciences, 1981-1988.

Head of Institute, Inst. of Biology, Odense Univ. 1993-1995.

Professional service:

Referee for the following journals:

Marine Ecology Progress Series

Royal Zoological Society, London

Journal of the Acoustical Society of America

Behavioral Ecology and Sociobiology

Journal of Comparative Physiology

Journal of Experimental Biology

Functional Ecology

Marine Mammal Science

Science

Nature

Grant reviews:

Norwegian Natural Sciences Research Council

National Science Foundation USA

Department of Agriculture USA

Editorial Board Member

Aquatic Mammals

Advisory Board- Acoustical Society of America- Bioacoustics

Memberships in Professional Organizations

Sigma Xi, 1968 -:

Society for Neuroscience, 1972-1988

American Society of Zoologists, 1972-1993

Society for Experimental Biology, 1975-

Int. Soc. for Neuroethology, 1984- (member of board 1993-95)

American Institute of Biological Sciences, 1984-

Association for Research in Otolaryngology, 1990-2001

Society for Marine Mammalogy, 1999-

European Cetacean Society, 2000-

European Association for Aquatic Mammals, 2002-

Acoustical Society of America, 2000-

Elected Fellow of the Acoustical Society of America - 2005

Masters and Ph.D. students within the past 7 years

Masters: Troels Jacobsen 2001, Jacob Rye Hansen 2001, Oluf Damsgaard Henriksen 2001, Bruno Mølgaard Geertsen 2002, Nina Eriksen 2003, Isabel Ebbesen 2003, Pernille Bondo Harders 2003, Søren R. Thomsen 2003, Malene Simon 2004, Kimie Salo 2004, Mille Rasch 2004, Trine Kristensen 2004, Outi Tervo 2006, Jeppe Dalgaard Balle 2006, Ana Carolina Gregório Atem 2006, Meike Lindenschmidt 2007

Ph.D: Jonas Teilmann 2001, Magnus Wahlberg 2002, Marianne H. Rasmussen 2004, Susi Manuela Clermont Edrén 2009, Signe May Andersen 2011.

RESEARCH AREAS

My research focuses generally on hearing, acoustic communication and biosonar in toothed whales. Field studies on biosonar and acoustic communication in narwhals, sperm whales, white-beaked dolphins and harbor porpoises are joint efforts to increase our knowledge their use of sound in the natural environment. We study the biosonar and prey capture behavior of captive harbor porpoises at our facility in Kerteminde and in cooperation with the Fjord & Bælt. I have also studied hearing in insects and bats and bat-insect interactions.

Some recent and current research in cooperation with students and colleagues includes: 1) the interactions between northern bats and hepialid moths, 2) adaptations of bats to clutter, 3) detection of echoes in noise by harbor porpoises using electrophysiological methods (auditory brainstem responses), 4) biosonar and prey capture behavior of harbor porpoises, 5) behavioral and physiological responses of harbor porpoises to potentially aversive sounds, 6) sound production by harbor porpoises using cadaver heads, 7) satellite tracking and diving profiles by wild harbor porpoises, 8) hydrophone array studies for determining source levels and directionality of clicks from wild sperm whales and white-beaked dolphins, and social signals (whistles from white-beaked dolphins, 9) playback of click bursts and tones to white-beaked dolphins in the wild for studying hearing and responses. 10) Audio gram of the white-beaked dolphin using auditory brain stem recordings. 11) Sound communication in bowhead whales. 12) Harbor porpoise biosonar and evolution