

CURRICULUM VITAE

Professor Arvid Naess

*Education and
academic degrees:*

1973 M. Sc. Applied Physics, Norwegian Institute of Technology (NTH)
1976 Dr. ing. (Ph.D.) Mathematics, NTH
1985 Dr. techn. Civil Engineering, NTH

Present positions:

2001- : Professor of Mathematical Statistics, Faculty of Information Technology, Mathematics and Electrical Engineering, Norwegian University of Science and Technology (NTNU, formerly NTH).

1987 - : Professor at the Department of Structural Engineering, Faculty of Civil and Environmental Engineering, Norwegian University of Science and Technology.

Past positions:

2003 - 2012: Key member of Centre of Excellence in Ships and Ocean Structures (CeSOS, www.cesos.ntnu.no), Norwegian University of Science and Technology

1976-85: Senior Research Engineer at the Norwegian Marine Technology Research Institute (MARINTEK), formerly the Ship Research Institute of Norway (NSFI).

1985: Visiting Scientist in the Dept. of Structural Engineering, Cornell University, on a 3 months grant from the Royal Norwegian Council for Scientific and Industrial Research (NTNF).

1985-86: Senior Research Engineer at the Norwegian Hydrotechnical Laboratory (NHL).

1987-88: Associate Professor, Faculty of Civil and Environmental Engineering, NTH.

1992-93: Visiting Professor, Department of Civil Engineering, Stanford University, Palo Alto, California.

1997 (February): Schmidt Distinguished Visiting Professor at the Center for Applied Stochastics Research, Florida Atlantic University, Boca Raton, Florida.

2000-2001: Visiting Professor, Department of Civil Engineering, University of California at Berkeley.

2006 (Fall semester): Visiting Professor at the School of Civil and Environmental Engineering, Cornell University, Ithaca, New York.

2007 (Spring semester): Visiting Professor, Department of Mechanical Engineering, Rice University, Houston, Texas.

2015-16: (Part-time) Visiting Professor, Columbia University, New York.

*Research
experience:*

1976: Experimental and theoretical investigation of slow-drift responses of moored offshore structures.

1977: Experimental work on the dynamics of oil booms in waves. Commission research on oil skimmers.

1977-79: Theoretical and experimental studies on natural dispersion of pollutants by breaking waves.

1980 - : Development of stochastic analysis techniques for prediction of extreme loads and motions of engineering structures.

1981: Investigation of methods for continuous monitoring of the stability of floating platforms.

1982 - : Theoretical investigations in statistical wave theory.

1983 - : Stochastic dynamics.

1986 - : Theoretical reliability theory.

1995 - : Statistical methods for estimation of extreme values.

2004 - : Stochastic models in financial engineering.

Membership:

Norwegian Society of Chartered Technical and Scientific Professionals (Tekna)

Society of Industrial and Applied Mathematics (SIAM)

European Mathematical Society (EMS)

The American Society of Civil Engineers (ASCE)

The American Society of Mechanical Engineers (ASME)

European Mechanics Society (Euromech)

*Honours and
Awards:*

The IASSAR Distinguished Research Award, 2017

The Alfred M. Freudenthal Medal, ASCE, 2010.

Fellow of the Engineering Mechanics Institute (EMI), ASCE.

Fellow of the American Society of Civil Engineers (ASCE).

Fellow of the American Society of Mechanical Engineers (ASME).

Elected member of the Norwegian Academy of Technological Sciences (NTVA).

Elected member of the Royal Norwegian Academy of Sciences and Letters (DKNVS).

ASME, Offshore Mechanics and Arctic Engineering Division, The Achievement/Special Service Award, June 2003.

ASME, Offshore Mechanics and Arctic Engineering Division, The Special Service Award, June 2002.

ASME, Offshore Mechanics and Arctic Engineering Division, Achievement Award, June 1995.

A/S Veidekke Jubilee Prize 1988 for International Publications.

Best Paper Award. OMAE 2011 – Structures, Safety and Reliability Symposium, Rotterdam, The Netherlands.

Best Minisymposium Award, ENOC 2011, Rome, Italy.

Appointments:

Associate Editor of *Journal of Engineering Mechanics*, ASCE (2004-2012) .

Associate Editor of *Ocean Engineering*

Associate Technical Editor of *Journal of Offshore Mechanics and Arctic Engineering*, ASME (2004-2014)

Associate Editor of *Journal of Ocean Engineering and Marine Energy*

Member of the Editorial Board of *Applied Ocean Research*

Member of the Editorial Board of *Structural Safety*

Member of the Editorial Board of *Probabilistic Engineering Mechanics*

Member of the Editorial Board of *Journal of Engineering Under Uncertainty: Hazards, Assessment, Mitigation*

Member of the Editorial Board of *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems*

Member of the Advisory Board of *International Journal of Nonlinear Dynamics and Control*.

Chairman of the IASSAR (International Association for Structural Safety and Reliability) Committee on Stochastic Dynamics.

Chairman (2002-2003) of the Ocean, Offshore and Arctic Engineering (OOAE) Division of the American Society of Mechanical Engineers (ASME) International.

Chairman of the 21st International Offshore Mechanics and Arctic Engineering Conference (OMAE 2002), Oslo, June 2002

Chairman of IUTAM Symposium on Advances in Nonlinear Stochastic Mechanics, Norway, 1995.

Member of numerous scientific committees of international conferences.

Students:

Supervised many PhD and Master students