

## Short CV – Bo Lundgren

### Degrees

- PhD (Licentiat) (Physical Oceanography – especially Marine Optics), University of Copenhagen, Denmark (1977).
- MSc (Physical Oceanography – especially Marine Optics), University of Copenhagen, Denmark (1971).
- Electronics Engineer, Chalmers University of Technology, Gothenburg , Sweden (1965).

### Positions

- Emeritus, DTU Aqua, Technical University of Denmark (2010-present).
- Senior Researcher, Danish Institute for Fisheries Resources (DIFRES)/DTU Aqua (1999-2010).
- Consultant jobs in India, DANIDA, Danish Ministry of Foreign Affairs (1987, 1989, 1990).
- Scientist, DIFRES (1981-1999).
- Consulting Engineer, Danish Fisheries Ministry (1980-1981).
- Consulting Engineer, Dannebrog Shipyard, Aarhus (1979-1980).
- Research Associate at JRC, Ispra, Italy (1977 & 1978).
- Research Associate, Inst. of Physical Oceanography, University of Copenhagen, Denmark (1966-1977).
- Research Engineer, Inst. of Oceanography, University of Gothenburg, Sweden (1965).

### Research area

- Development of marine measurement instrumentation and methods in optics, hydrography and acoustics.
- Development of underwater acoustic methods for stock assessment, species recognition with acoustic methods.

### Memberships of scientific committees, 2011-present

- ICES Working Group on Fisheries Acoustics (WGFAST) (1989-present).
- ICES Working Group on Fisheries Technology and Fish Behaviour (WGFTFB) (1995-present).

### Review, 2011-present

- Occasionally referee for international journals, like ICES Journal of Fisheries Research.
- Occasional internal reviewing of staff articles on acoustics and gear technology.

**Peer reviewed publications: 14. Reports: 7. International conferences: 6.**

### Supervision, 2011-present

**PhD students:** 1 (Co-supervisor).

## Five selected publications

Lundgren B, Nielsen JR. (2008). A method for the possible species discrimination of juvenile gadoids by broad-bandwidth backscattering spectra vs. angle of incidence. *ICES Journal of Marine Science* 02/2008; 65(4):581-593. DOI:10.1093/icesjms/fsn031

Pham AH, Lundgren B, Stage B, Pedersen MM, Nielsen MB, Hemmsen MC, Jensen JA. (2012). Shadow effects in simulated ultrasound images derived from computed tomography images using a focused beam tracing model. *The Journal of the Acoustical Society of America* 07/2012; 132(1):487-97. DOI:10.1121/1.4726031

Adams JT, Aas E, Højerslev NK, Lundgren B. (2002). Comparison of Radiance and Polarization Values Observed in the Mediterranean Sea and Simulated in a Monte Carlo Model. *Applied Optics* 06/2002; 41(15):2724-33. DOI:10.1364/AO.41.002724

Nielsen JR, Lundgren B, Jensen TF, Stæhr K-J. (2001). Distribution, density and abundance of the western Baltic herring (*Clupea harengus*) in the Sound (ICES Subdivision 23) in relation to hydrographical features. *Fisheries Research* 03/2001; 50(3-5):235-258. DOI:10.1016/S0165-7836(00)00220-4

Lundgren B. (1976). Spectral Transmittance Measurements in the Baltic. PhD-thesis. Rep 30, Institute of Physical oceanography (later included in NBI), University of Copenhagen, 1976.