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Curriculum

See personal home page: www.marbio.sdu.dk

Education: M.Sc. (1976), Ph.D. (1979) and D.Sc. (1982) from University of Copenhagen.

Positions held: 1977-1983: Experimental Zoophysiologicalist, Marine Pollution Laboratory, National Agency of Environmental Protection, Charlottenlund, Denmark. 1983-2008: Associate Professor, Institute of Biology, University of Southern Denmark. 1997-2000: Guest Professor, Kristineberg Marine Research Station (Royal Swedish Academy of Sciences). 2008-present: Professor, Institute of Biology, University of Southern Denmark.

Research: My research has mainly contributed to filter feeding, bioenergetics and fluid mechanical analysis of filter-pumps in marine invertebrates. Key words: filter-feeding in marine invertebrates; bioenergetics (food-uptake, assimilation, respiration, energy budgets, growth, costs of growth, growth efficiency); biological filter-pumps; biomixing; fluid mechanics; population grazing impact; particle capture mechanisms; benthic-pelagic coupling; biological structure and nutrient dynamics; grazing impact of benthic filter feeders; implications of density driven currents for interaction between jellyfish and zooplankton. Several research sojourns, among them: Skidaway (USA), Woods Hole (USA), University of Wales (U.K.), Kristineberg Marine Research Station (Sweden).

Editorial boards:

- (1) Contributing/Review Editor (since 1985) for the journal *Marine Ecology Progress Series* (MEPS)
- (2) Co-editor (since 1995) for the *Journal of Sea Research*
- (3) Advisory board (1996-2005) of the journal of North Atlantic marine science *Sarsia*
- (4) Editor (since 2000) of *MEPS Discussion Forum 2* (web debate on the peer-review system)
- (5) Editorial Board Member (since 2007) of the *Journal of Cell and Animal Biology*
- (6) Editorial Board Member (since 2007) of the *Open Oceanography Journal*
- (7) Editorial Board Member (since 2007) of the *Open Oceanography Reviews*
- (8) Editorial Board Member (since 2008) of *Journal of Marine Biology*
- (9) Editorial Board Member (since 2009) of the journal *Advanced Studies in Biology*
- (10) Editorial Board Member (since 2011) of the *Open Journal of Marine Science*
- (11) Expert on Cnidaria and Ctenophora (since 2010) for The Great Danish Encyclopaedia (*Den Store Danske Encyklopædi*)

Memberships: Member of the Danish Academy of Sciences (DNA); American Society of Limnology and Oceanography (ASLO); Society for Experimental Biology (SEB). Member of the steering committee for the Biodiversity Research Programme, the Research Council of Norway (Sept 2004 - Dec 2007). Member of the Nordic Marine Academy (NMA, key supervisor Jan 2005).

Miscellaneous: In 1990, I established the small Fjord Biological Laboratory in Kerteminde which in 1997 became a part of the new Marine Biological Research Centre where I am now Manager. I have supervised some 40 candidate (M.Sc.) research-projects, and supervised or co-supervised 7 Ph.D. projects; organized a number of international Ph.D. courses. I have received substantial support from the Danish National Research Council, private funds, and from a number of major grants from national research agencies, and EU research programmes.

Publications: Total number of publications (1977-2011): about 183 titles