

## Short CV – Jens Kjerulf Petersen

### Degrees

- PhD, Department of Biology, University of Odense (1994).
- MSc, Biology, Marine Biological Laboratory, University of Copenhagen (1988).

### Positions

- Professor, Head of Danish Shellfish Centre, DTU Aqua, Technical University of Denmark (2014-present).
- Managing Director, Danish Shellfish Centre (2008-2014).
- Senior Scientist, Head of Benthic Section, Nat. Environmental Research Institute, Denmark (2002-2002 & 2004-2008).
- Senior Scientist, National Environmental Research Institute (1999-2009).
- Research Scientist, National Environmental Research Institute (1994-1999).
- Research Associate, National Environmental Research Institute (1991-1994).
- Consultant, MRG (MiljøRådgiverGruppen) (1990).
- Nordic Scholarship, Kristineberg Marine Biological Station, Royal Swedish Academy of Science (1988-1989).
- Scholarship, Marine Biological Laboratory, University of Copenhagen (1988).

### Research area

Experimental marine biologist and specialist in ecophysiology and population dynamics of benthic suspension feeders, benthic-pelagic coupling in coastal waters and all aspects of shellfish production. Experience in research and development with fish physiology and biology.

### Distinctions and awards

Nordic Scholarship (1988-1989).

### Memberships of scientific committees, 2011-present

- Member of the Permanent Mussel Committee under the Ministry of Environment and Food of Denmark (since 2005).
- Member of ICES Working Group on Aquaculture (since 2013).

### Review, 2011-present

- Reviews for Israeli, American, New Zealand and Portuguese Research Councils.
- Referee for a large number of international journals including Marine Biology, Marine Ecology Progress Series (Member of the Panel of Referees), Aquatic Living Resources, Journal of Applied Ecology, Limnology & Oceanography, Journal of Ecological Applications, Invertebrate Biology, Plos One, Aquaculture Environment Interactions (Review Editor).

**Peer reviewed publications: 57. Books and book chapters: 1. Reports: 76. International conferences: 9.**

### Advisory tasks, 2011-present

Advisory tasks regarding implementation of EU Species & Habitats Directive and Water Framework Directive for Ministry of Environment in Denmark, adviser for European Environment Agency re indicators for the EU Marine Strategy, task manager on environmental monitoring re the construction of the Øresund fixed link, chief adviser to the Danish AgriFish Agency re shellfish and seaweed production, member of working group on nutrient loading for the Nature and Agriculture Commission. Member of the Permanent Mussel Committee under the Ministry of Environment and Food of Denmark.

### Educational tasks, 2011-present

DTU courses: 25305 Marine Aquaculture (Contributor); 25307 Fisheries Ecology and assessment (Contributor) and 25310 Biological Oceanography (Contributor).

### Supervision, 2011-present

**PhD students:** 6 (Co-supervisor). **Postdocs:** 1 (Main Supervisor).

### Grants, 2011-present

PI on 3 EU funded research projects (1 as Work Package Leader), project coordinator on 2 Green Development and Demonstration Program projects, PI on 2 Danish Strategic Research Council projects (1 as Coordinator), project manager of 6 European Fisheries Fund projects, PI and/or project coordinator of additionally 3 projects.

### Research collaboration with stakeholders, 2011-present

Project coordinator 2 Green Development and Demonstration Program projects in collaboration with fisheries (development of sustainable fishery of starfish) and mussel farming industry (development of production methods), project coordinator on a Business Innovation Fund project on development of the shellfish sector in the Limfjorden area with participation and funding from fisheries, aquaculture and processing. Project coordinator on 3 European Fisheries Fund projects including active participation of the industry.

### Five selected publications

Petersen JK, Hansen JW, Laursen MB, Clausen P, Carstensen J, Conley DJ. (2008). Regime shift in a coastal marine ecosystem. *Ecological Applications* 18(2), 497-510.

Petersen JK, Maar M, Ysebart T, Herman PMJ. (2013). Near-bed gradients in particles and nutrients above a mussel bed in the Limfjorden: influence of physical mixing and mussel activity. *Marine Ecology Progress Series* 490, 137-146.

Petersen JK, Hasler B, Timmermann K, Nielsen P, Tørring DB, Larsen MM, Holmer M. (2014). Mussels as a tool for mitigation in the marine environment. *Marine Pollution Bulletin* 82, 137-143.

Holmer M, Thorsen SW, Carlsson MS, Petersen JK. (2015). Pelagic and benthic nutrient regeneration processes in mussel cultures (*Mytilus edulis*) in a eutrophic coastal area (Skive Fjord, Denmark). *Estuaries & Coasts* 38(5), 1629-1641.

Nielsen P, Cranford P, Maar M, Petersen JK. (2016). Magnitude, spatial scale and optimization of ecosystem services from a nutrient extraction mussel farm in the eutrophic Skive Fjord, Denmark. *Aquaculture Environment Interactions* 8, 311-329.