

Short CV – Per Bovbjerg Pedersen

Degrees

- MSc, Aarhus University, Denmark (1987).

Positions

- Head of Section for Aquaculture, Danish Institute for Fisheries Research (DIFRES)/DTU Aqua, Technical University of Denmark (2006-present).
- Researcher, Dept. of Marine Ecology and Aquaculture, DIFRES (1999-2006).
- Head of Aquaculture Department (acting director during part of 1996), Danish Institute for Fisheries Technology & Aquaculture (DIFTA) (1993-1999).
- Biologist (Feed/nutrition and recirc. systems), DIFTA (1990-1992).
- Acting company manager, Botax Aqua Farming Ltd., Aarhus, Denmark (1988-1990).
- Biologist (Eel farm management and consulting), Botax Aqua Farming Ltd., Aarhus, Denmark (1987-1988).
- Teacher (Aquaculture and environment), Danish Aquaculture Centre, Horsens Polytechnic, Denmark (1988-1990).

Research area

Recirculation systems and environmental effects; Fish feed and nutrition.

Distinctions and awards

Appointed member by the Minister of Environment to the superior National Body for Environmental Issues (“Naturklagenævnet”) (2008-present).

Memberships of scientific committees, 2011-present

- Danish Ministry of Food, Agriculture and Fisheries: Expert working group on revising official reporting, National working group on legislation for organic fish farming, National Committee on Model Trout Farms, National Committee on Marine Fish Farming and various other working groups.
- Danish Ministry of Environment: National expert group on regulation for net cage farming, Expert group on a new regulation for Model Trout Farms and various working groups.
- Nordic Network on Recirculation Technology, steering group member.

Review, 2011-present

Evaluation of research proposals under the Danish Ministry of Food, Agriculture and Fisheries, Danish Food Agency, Norwegian Research Council, Faroe Islands, different research foundations etc.; Evaluation of applications for FIGG/EFF for >6 years; Review of manuscripts for various scientific journals, e.g. Aquaculture, Aquacultural Engineering, Water Research

Peer reviewed publications: 51. **Books and book chapters:** 19. **Reports:** >42. **International conferences:** 8.

Advisory tasks, 2011-present

Coordination and a key role in preparation of all advisory activities related to aquaculture towards the Danish Ministry of Food, Agriculture and Fisheries and the Danish Ministry of Environment (now merged); Numerous notes and advisory tasks prepared. Advice and short-term consultancies to DANIDA (Danish Foreign Aid).

Educational tasks, 2011-present

- Teaching, supervision and censoring of master-projects for students from DTU, Aarhus Univ. and Univ. of Copenhagen.
- Courses (BSc) in leadership/management at e.g. DTU and University College of Aalborg.

Supervision, 2011-present

PhD students: 3 (Main Supervisor); 2 (Co-supervisor). **Master students:** >10 (Main Supervisor).

Postdocs: 2 (Main Supervisor).

Grants, 2011-present

- Many grants for research and innovation projects. Since 2006 more than 15 larger projects, funded by national, Nordic and EU programmes. In most projects acting as initiator, principal applicant and/or, coordinator and participant. Most grants related to recirculation and the application thereof, e.g. in Model Trout Farms.
- Collaboration internationally with diff. European partners and nationally with e.g. DCE/Aarhus University, Danish Hydraulic Institute and different DTU institutes as well as Danish Aquaculture Association and many industrial partners.

Research collaboration with stakeholders, 2011-present

A wide variety of collaborative research with authorities and also fish farmers, fish farmers association, supporting industry, recirculation system- and equipment suppliers, fish feed producers and suppliers of feed ingredients etc.

Other activities

Design, construction and implementation of (all) recirculation systems at the research facility at DTU Aqua Hirtshals.

Five selected publications

von Ahnen, Mathis; Pedersen, Per Bovbjerg; Hoffmann, Carl Christian; Dalsgaard, Anne Johanne Tang (2016). Optimizing nitrate removal in woodchip beds treating aquaculture effluents. *Aquaculture*.458, p. 47-54.

Pedersen, Lars-Flemming; Suhr, Karin Isabel; Dalsgaard, Anne Johanne Tang; Pedersen, Per Bovbjerg; Arvin, Erik (2012). Effects of feed loading on nitrogen balances and fish performance in replicated recirculating aquaculture systems. *Aquaculture*, 338-341, p. 237-245.

Dalsgaard J, Pedersen PB. (2011). Solid and suspended/dissolved waste (N, P, O) from rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*. 313 (1-4): p. 92-99.

Suhr, Karin; Pedersen, Per Bovbjerg (2010). Nitrification in moving bed and fixed bed biofilters treating effluent water from a large commercial outdoor rainbow trout RAS. *Aquacultural Engineering*, Vol. 42, No. 1, p. 31-37.

Pedersen, Lars-Flemming; Pedersen, Per Bovbjerg; Nielsen, Jeppe L.; Nielsen, Per .H (2009). Peracetic acid degradation and effects on nitrification in recirculating aquaculture systems. *Aquaculture*, 296, No. 3-4, p. 246-254.