Short CV – Lars-Flemming Pedersen

Degrees

- PhD, Technical University of Denmark & University of Aalborg, Denmark (2009).
- MSc (Biology) University of Aarhus, Denmark (2001).
- BSc (Ecotoxicology) University of Aarhus, Denmark (1997).

Positions

- Senior Researcher, DTU Aqua, Technical University of Denmark (2013-present).
- Research Scientist, DTU Aqua (2010-2013).
- PhD stipend, DTU Aqua (2007-2009).
- Project Researcher, Danish Institute for Fisheries Research (DIFRES) (2002-2006).

Research area

Aquaculture water quality; chemical and microbial water treatment; water disinfection; biofiltration; nitrification; organic aquaculture; recirculating aquaculture systems.

Review, 2011-present

American Society of Agricultural and Biological Engineers; Aquaculture; Aquacultural Engineering; Aquaculture Research; Environmental Engineering and Management Journal; Journal of Hazardous Materials; Journal of Molecular Science; Journal of World Aquaculture Society; Journal of Fish Diseases; Microbial Biotechnology; Water Research.

Peer reviewed publications: 47. **Books and book chapters:** 2. **Reports:** 16. **International conferences:** 14.

Educational tasks, 2011-present

Lecturer in 25316 Recirculation Aquaculture Systems, DTU; 25322 Advanced RAS, DTU; and RAS Study group & national and an EU project related industrial competence course about RAS, water quality and water treatment.

Supervision, 2011-present

PhD students: 1 (Main Supervisor); 2 (Co-supervisor). ***Master students:*** 4 (Main Supervisor).

Grants, 2011-present

- Danish Min. of Food, Agriculture & Fisheries and European Fisheries Fund: RAS management and environment (38815).
- Danish Environmental Protection Agency, Eco-efficient Technology Promoting Programme (MUDP): Toxic microalgae in land based saltwater RAS (39032).
- Danish Min. of Food, Agriculture & Fisheries and Green Development and Demonstration Programme (GUDP): Stable water quality in RAS (39154).
- Danish Environ. Protect. Agency, Biocide Research Programme: Environmental neutral aquaculture water treatment (39295).
- EU FP7, COFASP: Microbial stabilization in RAS (39277).
- Danish Min. of Food, Agriculture & Fisheries and European Fisheries Fund: Formalin network (39140).
- Danish Agency for Science, Technology & Innovation: Electrochemical nitrate oxidation (39327).
- Danish Environmental Protection Agency, Eco-efficient Technology Promoting Programme (MUDP): RAS2020 (39328).

Research collaboration with stakeholders, 2011-present

- Project related research collaboration with Danish RAS companies and suppliers (RK Plast; ElectroCell, Billund Aquaculture service, AquaPri, Mycometer), Danish Aquaculture Organization, fish farmers and fish veterinarians.
- International research collaboration with colleagues in the US (TCFFI, VW & USDA, AR), Norway (NTNU, Trondheim) and Germany (IGB, Berlin).

Five selected publications

Pedersen L-F, Oosterveld R, Pedersen PB. (2015). Nitrification performance and robustness of fixed and moving bed biofilters having identical carrier elements. Aquacultural Engineering, 65, 37-45.

Pedersen L-F, Meinelt T, Straus DL. (2013). Peracetic acid degradation in freshwater aquaculture systems and possible practical implications. Aquacultural Engineering, 53, 65-71.

Pedersen L-F, Suhr KI, Dalsgaard J, Pedersen PB, Arvin E. (2012). Effects of feed loading on nitrogen balances and fish performance in replicated recirculating aquaculture systems. Aquaculture, 338, 237-245.

Pedersen L-F, Pedersen PB. Nielsen JL, Nielsen PH. (2010). Long term/low dose formalin exposure to small-scale recirculation aquaculture systems. Aquacultural Engineering, 42(1), 1-7.

Pedersen L-F, Pedersen PB, Nielsen JL, Nielsen PH. (2009). Peracetic acid degradation and effects on nitrification in recirculating aquaculture systems. Aquaculture, 296, 246-254.