7th NordicRAS Workshop Program 8-9 October 2025, Aalborg, Denmark,

	Day 1: Wednesday, 8 October 2025
08 ³⁰ -10 ⁰⁰	Registration
	Opening
-	gi Thor Thorarensen, UiT, Norway Iohanne Dalsgaard, DTU Denmark
10 ⁰⁰ -10 ¹⁰	Welcome Johanne Dalsgaard, DTU Aqua, Denmark
10 ¹⁰ -10 ³⁰	Landbased aquaculture – What's going on? Pål Mugaas Jensen, Oceanspace Media, Norway
10 ³⁰ -10 ⁴⁵	Current status and future prospects of RAS in China Zhitao Huang, NIVA, Norway
10 ⁴⁵ -11 ⁰⁰	Scotland's RAS evolution: Lessons learned and the road ahead Brendon Davis, BioMar, Scotland
11 ⁰⁰ -11 ¹⁵	Grieg's Global RAS activities Timo Roche, Grieg Seafood, Norway
	Session I: RAS operation, part 1
11 ¹⁵ -11 ³⁰	A way towards appetite-based feeding of Atlantic salmon in RAS Jelena Kolarevic, UiT, Norway
11 ³⁰ -11 ⁴⁵	Optimizing drum filter mesh size – Is smaller better? Kim João de Jesus Gregersen, DTU Aqua, Denmark
11 ⁴⁵ -12 ⁰⁰	Faeces on the rise: How "Floating Faeces" improve solid and nutrient removal for Atlantic salmon pre-smolt production in RAS Mark Schumann, FFS & LAZBW, Germany
12 ⁰⁰ -13 ³⁰	Lunch
	Session II: Salmon RAS
	na Kolarevic, UiT, Norway Torsten Wik, Chalmers, Sweden
13 ³⁰ -13 ⁴⁵	Gaia Salmon – A land-based post-smolt facility located 40 miles out to sea Paula Rojas-Tirado, Gaia Salmon, Norway
13 ⁴⁵ -14 ⁰⁰	The Skagen Salmon Model for circular aquaculture, performance and lessons learned Per Sonnesen, Skagen Salmon, Denmark
14 ⁰⁰ -14 ¹⁵	Chilled to thrive: Temperature manipulation in RAS and its impact on salmonid performance post-transfer Vegard Flo, Cargill Aqua Nutrition, Norway

Day 1. Wodnosday	9 October 2025 continued
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Session III: Water quality

- 14¹⁵-14³⁰ Effect of adding calcium hydroxide as a coagulant in a protein skimmer on water quality and Atlantic salmon (*Salmo salar*) performance in freshwater RAS Kiran Subash, NMBU, Norway
- 14³⁰-14⁴⁵ Optimizing water quality in recirculating aquaculture systems through organic matter monitoring and ozonation

Aikaterini Spiliotopoulou, OxyGuard International A/S, Denmark

- 14⁴⁵-15⁰⁰ Effects of alkalinity controlling chemicals on nitrification and sludge nutrient profiles in freshwater recirculating aquaculture systems

 Wanhe Qi, LUKE, Finland
- 15⁰⁰-15³⁰ Coffee break

Session IV: RAS operation, part 2

Chair: Vasco Filipe Cardoso Neves Mota, NMBU, Norway Co-chair: Per Bovbjerg Pedersen, DTU Aqua, Denmark

15³⁰-15⁴⁵ Open-Access innovation in RAS learning: New tools to increase competence in aquaculture

Jordan Gould, NMBU, Norway

15⁴⁵-16⁰⁰ RAS operation – Lessons learned and future developments Mario R. Palma G., FosterAqua LLC, USA

Session V: Non-salmon RAS

16⁰⁰-16¹⁵ Kingfish in RAS - Lessons learned

Mikkel Thomsen, Nordic Aquafarms Technology ApS, Denmark

16¹⁵-16³⁰ Catfish – A new animal in Swedish barns

Johan Ljungquist, Gårdsfisk, Sweden

16³⁰-16⁴⁵ Bio economical optimization of a marine RAS cultivating giant grouper (*Epinephelus lanceolatus*) in Europe

Jaime Orellana, Erwin Sander Elektroapparatebau GmbH, Germany

16⁴⁵-17⁰⁰ Growing healthy food in a regenerative farming model at Superior Fresh Steven Summerfelt, Superior Fresh LLC, USA

Break

20⁰⁰-23⁰⁰ Workshop dinner (optional)

Restaurant Podium, AKKC, Europa Plads 4, 9000 Aalborg, Denmark

Day 2: Thursday, 9 October 2025

Session VI: Microbial water quality

Chair: Lars-Flemming Pedersen, DTU Aqua, Denmark

Co-chair: Ingrid Bakke, NTNU, Norway

- 08³⁰-08⁴⁵ Rapid H₂S production in layers of freshwater and marine fish organic waste in RAS Sanni L. Aalto, DTU Aqua, Denmark
- 08⁴⁵-09⁰⁰ Microbial community dynamics under elevated organic matter conditions in RAS Nhat Ton Nguyen, SLU, Sweden

Session VII: Diseases & Biosecurity

- 09⁰⁰-09¹⁵ Experimental IPNV infection in Atlantic salmon RAS Carlo C. Lazado, Nofima, Norway
- 09¹⁵-09³⁰ Disinfection and the parasite *Spironucleus salmonicida* in Atlantic salmon RAS Lill-Heidi Johansen, Nofima, Norway
- 09³⁰-09⁴⁵ Effect of biosecurity measures on pathogen persistence in RAS facilities: experimental trials and on-farm surveillance

Sonal Patel, Norwegian Veterinary Institute, Norway

109⁴⁵-10⁰⁰ The role of biosecurity strategies on biofilter performance and microbial dynamics after a challenge with infectious Salmon Anemia Virus (ISAV)

Paulo Mira Fernandes, NIVA, Norway

10⁰⁰-10³⁰ Coffee break

Session VIII: Waste treatment and valorization

Chair: Jouni Vielma, LUKE, Finland

seaweed

Co-chair: Paulo Mira Fernandes, NIVA, Norway

- 10³⁰-10⁴⁵ From waste to worth: Unlocking the potential of fish sludge Gro Bjerga, NORCE Research, Norway
- 10⁴⁵-11⁰⁰ Redox-driven valorisation of marine RAS sludge and effluents for nutrient recovery and Ulva sp. cultivation
 Sarah Perché, University of Murcia, Spain
- 11⁰⁰-11¹⁵ From RAS effluent to livestock methane reduction closing nutrient loops with red

Damien Balkin, Maripure, Denmark

Life cycle assessment (LCA) of three wastewater denitrification scenarios (none, woodchip, activated sludge) for the treatment of RAS effluent
Natalie Rizzo, DTU Sustain, Denmark

Day 2: Thursday, 9 October 2025 - continued

Session IX: Off-flavors

11³⁰-11⁴⁵ Removal of geosmin and 2-methylisoborneol from aquaculture water by hydrophobic carriers

Jaap van Rijn, the Hebrew University of Jerusalem, Israel

11⁴⁵-12⁰⁰ Capture of off-flavors in recirculating aquaculture systems

Petra C Lindholm-Lehto, LUKE, Finland

12⁰⁰-12¹⁵ Comparison of electrochemical and traditional purging for geosmin removal in growout Atlantic salmon RAS

Thanh Nguyen Duc, University of Gothenburg, Sweden

12¹⁵-13¹⁵ Lunch

Session X: Welfare

Chair: Carlo Lazado, Nofima, Norway

Co-chair: Paula Rojas-Tirado, Gaia Salmon Holding AS, Norway

13¹⁵-13³⁰ Recirculating aquaculture systems and fish welfare: A critical overview of constraints and opportunities

Manuel Gesto, DTU Aqua, Denmark

13³⁰-13⁴⁵ Dietary stress mitigation in Atlantic salmon reared in Recirculating Aquaculture Systems

Jonas Mueller, Kiel University, Germany

Session XI: Innovations in RAS

- 13⁴⁵-14⁰⁰ Innovations in salmon breeding: Shaping the future of land-based farming Andrew Preston, Benchmark Genetics, Norway
- 14⁰⁰-14¹⁵ Application of membrane aerated biofilm reactor technology for high-efficiency nitrogen removal from RAS wastewater

Anastasia Stavrinou, DTU Aqua, Denmark

- 14¹⁵-14³⁰ Geothermal brine-based artificial seawater for shrimp and salmonid RAS
 Nerijus Nika, Klaipeda University, Lithuania
- 14³⁰-14⁴⁵ Hybrid flow-through in Finland: A new current Kalle Sinisalo, Paras Aqua Oy, Finland
- 14⁴⁵-15⁰⁰ LAXEY and farming salmon on land in Iceland: Challenges, lessons learned and the road ahead

Rustan Lindqvist, LAXEY, Iceland

15⁰⁰ Goodbye and see you next time