



FEED & TREAT WORKSHOP

Towards environmentally friendly aquaculture for Atlantic salmon

Optimizing water quality and treatment efficiency in recirculating aquaculture systems for salmon smolt production through better adjustment of fish feed and water treatment devices.

In order to supply the demand and reduce the environmental impact of salmon smolt production, at least 50% of the 400 actual flow-through plants needs to be transformed to recirculating aquaculture systems (RAS) in the next decades. RAS for salmon smolt production have several advantages compared to flow-through operation: reduced freshwater requirements and energy consumption, better control of water-quality, improved bio-security and disease prevention and in the end a cheaper and better product.

OBJECTIVES:

- 1) Improve treatability of fish excrements through definition of a "value added" feed and optimisation of mechanical treatment of solids;
- 2) Optimize existing biological water treatment concepts used for RAS for higher treatment performance and specific matching to the improved, adapted feed;
- 3) Revise the denitrification step inside the system in order to reduce the increased organic load from a more effective mechanical treatment by using it as carbon source for the denitrification process;
- 4) Reduce the freshwater intake/wastewater outflow and thus the energy consumption (heating) and the environmental impact.

Feed & Treat in a nutshell

Name	Feed & Treat
Objective	Establish environmentally friendly Atlantic salmon smolt production in RAS
Consortium	7 partners from 5 countries
Duration	Feb 2012 - Jan 2014
Project coordinator	IMARES, Wageningen UR
Support	Grant from the EU (FP7-SME-2011-286143)

Feed & Treat Workshop

Trondheim Spektrum

Klostergt. 90

7030 Trondheim

Date: August 12, 2013

Time: 14.00 – 17.00

Participation: Free

Sign up before Aug. 5 2013

Contact:

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PROJECT PARTNERS

IMARES Wageningen UR

Inter Aqua Advance A/S

ACUI-T Sarl

NOFIMA (RTD, Norway)

Sømna Settefisk AS

Lakeland Group

BIOMAR A/S



DRAFT PROGRAMME

Below is a tentative schedule of the presentations by the consortium.

A final programme will be provided to all participants in advance of the workshop.

Feed & Treat, August 12, 2013, Trondheim, Norway

Time	Speaker	Presentation
14.00-14.20	Arjan Palstra, Wageningen	Welcome & Introduction to Feed & Treat Project
14.25-14.45	Bjørn Steinar Sæther, NOFIMA	“Selection of Feed Components for Feed in RAS”
14.50-15.10	Andries, IMARES	Research Status
15.15-15.35	BioMar	Feed development
15.40-16.00	Paul Sindilariu	Water Quality in RAS
16.05-16.25	Jens Ole Olesen, Inter Aqua	“Treatment Systems in RAS Plants”
16.30-16.50	Client Statements	
16.50-17.00	General questions & comments	

The Feed & Treat Consortium hopes to see you at this workshop intended for the Aquaculture Industry end-users as well as OEM's.

Please sign up for participation before August 5th 2013:

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More information about the project can be found at <http://sites.wageningenur.nl/en/feedandtreat.htm>.

