

**Programme for the 1st RAS workshop organized by the
Nordic Network on Recirculating Aquaculture Systems**

www.NordicRAS.net

October 5-6, 2011

Venue: House of Estates, Helsinki, Finland

October 5		
12:30-13:30		Registration
13:30-13:40		Welcome by network organizer Anne Johanne Dalsgaard
13:40-14:10	No-1	Opening keynote: Jean-Paul Blancheton (IFREMER): General RAS overview
Theme 1: RAS in practice		
Session by RAS contractors / supplier of RAS technology		
TOPIC: How to design 500-1000 ton salmonid RAS system		
14:10-14:25	No-2	Billund Aquakultur Service by Bjarne Hald Olsen
14:25-14:40	No-3	AKVA group by Jacob Bregnballe
14:40-14:55	No-4	Inter Aqua Advance by Jens Ole Olesen
14:55-15:10	No-5	AquaOptima by Idar Schei
15:10-15:25	No-6	Krüger Kaldnes by Eivind Lygren
15:25-16:00		Coffee break
Session by feed companies		
TOPIC: Designing feed for RAS		
16:00-16:15	No-7	Ewos by Louise Buttle
16:15-16:30	No-8	Biomar by Peter Jessen: Feed for RAS - a key to maximum output
16:30-16:45	No-9	Matis by Jón Árnason
16:45-17:00	No-10	Aller Aqua by Hanno Slawski
17:00-17:15	No-11	Fishfarming Technology, Steinar Skybakmoen: Effects of feed and system operation on waste output
17:15-17:30	No-12	TBA
Session by fish farmers/managers		
TOPIC: Experience with RAS farming with different species and regions		
17:30-17:45	No-13	Arctic char & tilapia: Ragnheidur Thorarinsdottir (Matorka, Iceland)
17:45-18:00	No-14	European lobster: Asbjørn Drengstig (HOBAS, Norway)
18:00-18:30		Sandwich break
18:30-18:45	No-15	Pikeperch: Martin Vestergaard (AquaPri, Denmark)
18:45-19:00	No-16	Perch: Ola Öberg (Sweden): Swedish experience on recirculating aquaculture in floating bags
19:00-19:15	No-17	Salmon smolt: Thue Holm (Langsand Laks, Denmark)
19:15-19:30	No-18	Model trout farms: Christina Kongsted (Kongeåens Dambrug Aps., Denmark)
19:30-19:45	No-19	Sturgeon: Kaj Arvonen (Arvotec, Finland): Feeding automation and control in RAS. Finnish sturgeon farming as an example
19:45-20:00	No-20	AquaCircle: Jesper Helbo (Denmark)
20:00-20:15	No-21	Aquacultural Engineering Society (AES): Asbjørn Bergheim (IRIS)
October 6		
Theme 2: Feed, nutrition and waste characterisation		

08:30-09:00	No-22	Keynote: Alexander Brinker (LAZBW): Waste characterisation in RAS
09:00-09:15	No-23	Turid Synnøve Aas (Nofima): Reflections about physical feed quality
09:15-09:30	No-24	Anders Kiessling (UMB): Feed quality
09:30-09:45	No-25	Anne Johanne Dalsgaard (DTU Aqua): Feed and organic matter
09:45-10:00	No-26	Trond Storebakken (APC): Comparing wastes from feeding of salmonids in intensive production systems
10:00-10:30		Coffee break
Theme 3. Water quality in RAS		
10:30-11:00	No-27	Keynote: Ep Eding (Wageningen University): Water quality in RAS
11:00-11:15	No-28	Bendik Fyhn Terjesen (Nofima): Influence of RAS water quality parameters on fish physiology and system management
11:15-11:30	No-29	Sveinung Fivelstad (Bergen Uni. Coll.): Water quality criteria for salmonides in intensive fish farming
11:30-11:45	No-30	Helgi Thorarensen (Holar Uni. Coll.): Gasses and ammonia
11:45-12:00		Robert Eliassen (Høgskolen, Bodø): Title TBA
12:00-13:00	No-31	Lunch
13:00-13:15	No-32	Yngve Ulgenes (SINTEF): Title TBA
13:15-13:30	No-33	Torsten Wik (Chalmers Uni. Technology): Modelling of RAS
13:30-13:45	No-34	Per Bovbjerg (DTU Aqua): New developments in marine RAS
Theme 4. Waste management and diseases in RAS		
13:45-14:15	No-35	Keynote: Jaap van Rijn (Hebrew Uni. Jerusalem): Waste management in RAS
14:15-14:45		Coffee break
14:45-15:00	No-36	Karin Suhr (DTU Aqua): Sludge hydrolysis
15:00-15:15	No-37	Speaker and title TBA
15:15-15:30	No-38	Lars-Flemming Pedersen (DTU Aqua): Water treatment in RAS – Green chemistry in practice
15:30-15:45	No-39	Rannveig Bjornsdottir (Matis): probiotics
15:45-16:00	No-40	Edward Schram (IMARES): Off flavour in RAS
16:00-16:15	No-41	Niels Henrik Henriksen (DA): parasites
16:15-16:30		Closing by network organizer Anne Johanne Dalsgaard