

AQUA NOR FORUM PROVISIONAL PROGRAMME¹



August 15-16, 2007.

Trondheim Spektrum, Norway.

Within AQUA NOR 2007, 14-17 August 2007



The **AQUA NOR FORUM 2007** is the first of a new type of event, organised by the European Aquaculture Society (EAS) every second AQUA NOR, that provides a forum for science, industry, consumers and policy makers to review developments in the aquaculture sector and to discuss the key issues that affect those developments. EAS will organise its Aquaculture Europe International conference in Trondheim every four years, starting from 2009.

AQUA NOR FORUM 2007 will take place at the Trondheim Spektrum, Norway, on August 15-16 and within Aqua Nor 2007. The event is organised by the EAS in cooperation with the Nor Fishing Foundation and SINTEF Fisheries and Aquaculture.

AQUA NOR FORUM 2007 will address the issue of **welfare as a driver for technological development in aquaculture**. The forum will be divided into three sessions, which look at different “housing situations” (structures used for the production of aquatic animals) and the interaction between different stakeholders in designing production systems. The three sessions are brought together in a press conference that summarises discussions and recommends future action.

AQUA NOR FORUM ‘AT A GLANCE’

Tuesday, August 14th

AQUA NOR official opening	
FORUM Onsite Registration open	10.00 - 17.00
FORUM Reception (at AQUA NOR reception)	18.00 - 20.00

Wednesday, August 15th

Registration open	10.00 - 17.00
FORUM Session: My First Home	10.30 - 13.00
Lunch (on your own)	13.00 - 14.00
FORUM Session: My Land Home	14.00 - 16.30

Thursday, August 16th

Registration open	10.00 - 11.00
FORUM Session: My Sea Home	10.30 - 12.00
Lunch (on your own)	12.00 - 13.00
FORUM Session: My Sea Home (cont)	13.00 - 15.30
FORUM Press conference	15.30 - 16.00

¹ Please note that this is a provisional programme and could be subject to change.

MY FIRST HOME - WEDNESDAY AUGUST 15TH 10.30-13.00



This session will address the specific environment of the seawater hatchery and nursery, where larval fish are fragile and require special husbandry. The session will start with an overview of the status of our knowledge of the welfare biology of the larval and juvenile stages of the most important species in European aquaculture. It will then develop issues related to welfare in the current production systems used in cold and warm water hatcheries and in current hatchery methods employed throughout Europe. A technology overview presenting needs and future trends will open the discussion.

Session Moderator: Kjell-Inge Reitan, SINTEF, Norway

Panel Members and contributions:

- Grete Bæverfjord, Akvaforsk, Norway – Larval rearing issues - The EU Finefish project
- Eamonn O'Brien, Skretting, The Netherlands - Nutritional aspects related to fish welfare in marine fish hatcheries
- John Sweetman, Ecomarine Ltd, Greece - Hatchery husbandry and critical stress points
- Gunvor Øie, SINTEF, Norway - Future technology needs and possibilities

General discussion and concluding comments

MY LAND HOME - WEDNESDAY AUGUST 15TH 14.00-16.30



This session will focus on land-based rearing units – both flow-through and recirculation aquaculture systems - that provide control of the environment, thus potentially reducing stress and favouring welfare. The session will include discussions on smoltification and smolt quality, as well as new knowledge on transport and stunning of farmed fish.

Session Moderator: Sunil Kadri, University of Glasgow & Aquaculture Innovation, UK

Panel Members and contributions:

- Sunil Kadri – Specific considerations for fish welfare in land-based systems
- Hilde Toften, Fiskeriforskning, Norway - Fresh water quality and its effects on smoltification
- William Harris, MariCal Inc., USA - Smolt quality and subsequent seawater performance
- Jean-Paul Blancheton, IFREMER, France – The special case of recirculation aquaculture systems (RAS)
- Hans van de Vis, Institute for Marine Resources and Ecosystem Studies, Wageningen University and Research Centre, the Netherlands - Transport and stunning of farmed fish: welfare and product quality aspects
- Adriaan Kole, Centre for Innovative Consumer Studies, Wageningen University and Research Centre, the Netherlands – Consumer perception of farmed fish and farmed fish production.

General discussion and concluding comments



This will be an extended session, and will be split into two parts. The morning session will allow the panel members to present the key issues and the forum participants to have comments on these. After lunch, various contributors will present snapshots of more detailed issues, split into two areas - the technological challenges related to improving welfare conditions in fish containment systems (notably concerning sea cages and their management) and how welfare can be optimized in handling operations, such as grading, transport and harvesting.

Session Moderator: Alexandra Neyts, Norwegian University of Science and Technology, Norway

Panel Members:

- Gier Lasse Taranger, Institute of Marine Research, Norway – welfare biology in sea cage aquaculture
- Bob Waller, Freedom Foods, UK – Profit through welfare
- Kjell Maroni, Norwegian Seafood Federation (Aquaculture) and the Federation of European Aquaculture Producers, FEAP - Overview over technological challenges in sea cage welfare
- Mary Ellen Walling, BC Salmon Farmers Association, Canada – Communication of welfare issues from the producer organisation to wider stakeholders

Lunch (on your own)

Optimising welfare in fish containment systems

Contributions:

- Arne Fredheim, SINTEF, Norway - New concepts in cage technology, based on multi-disciplinary research
- Olav Brekk, Marine Harvest, Norway – Rearing environment, monitoring and welfare challenges in commercial sea cages
- Trond Lysklætt, Aqualine, Norway - New cage design features
- Patrick Dempster, Akva Group, Norway - the development of control and automation devices for the optimisation of welfare in sea cage and open ocean aquaculture

General discussion

Optimising welfare in handling operations

Contributions:

- Welfare technology in the pre-slaughtering phase – Kjell Midling, Fiskeriforskning, Norway
- Optimising welfare for routine handling in commercial production – Sinan Toplu, Bio-Sis, Turkey
- Ian Armstrong, Sølvrans AS and Nevis Marine Ltd., UK – Closed valve wellboat harvesting in Scotland to Freedom Food standards

General discussion and concluding comments

AQUA NOR FORUM PRESS CONFERENCE THURSDAY AUGUST 16TH 15.30 - 16.00

The session moderators will join the organizers for a press conference (for the aquaculture and general press representatives present in Aqua Nor) to present the outcomes of the forum and answer questions related to it.

REGISTER NOW AT WWW.EASONLINE.ORG

EAS has made a special agreement with **Tvete Arrangement** in Trondheim to combine and simplify your registration for the AQUA NOR FORUM 2007 and for your accommodation.

To ensure your place at the FORUM, we invite you to pre-register. All pre-registered participants will have the best prices for both registration and hotels. The pre-registration fee includes access to AQUA NOR FORUM 2007 sessions; a FORUM pack, including the programme and background information and access to the Aqua Nor 2007 Welcome Reception on Tuesday, August 14th.

The sessions are short to encourage maximum participation during the busy Aqua Nor days. Lunches and coffee breaks are therefore not provided as part of the registration fee.

PRE-REGISTRATION IS STRONGLY ADVISED

- Registration and hotel booking at the same time though the [EAS web site](#)
- Onsite registration will also be available at the EAS stand (D-305) in Aqua Nor 2007, but does NOT include access to Aqua Nor 2007, NOR to the Aqua Nor 2007 Welcome Reception.
- E-mail general information: aqn2007@aquaculture.cc
- E-mail registration and hotels: arrangement@tvete.com

AQUA NOR FORUM 2007 ORGANISING COMMITTEE

Chair: Kjell-Inge Reitan (Norway)

Members: Sunil Kadri (UK), Adriaan Kole (The Netherlands), Alexandra Neyts (Norway) and Geir Lasse Taranger (Norway).

AQUA NOR 2007

The Aqua Nor trade shows are held biennially in Trondheim and recent events have attracted around 20,000 visitors from close to 50 nations. 300 exhibitors representing more than 600 manufacturers and suppliers from all over the world present current developments in the fields of aquaculture technology, fish feed, fish health, quality assurance, research, training, funding, insurance, fish farmers network, grading, processing, packaging and distribution.



Exhibitors emphasize the unique opportunities that Aqua Nor provides for interaction with decision-makers and buyers representing both the national and international aquaculture industries.

Visitors find that Aqua Nor offers the best overview of products and services provided by the finest suppliers of the trade. They all highlight the excellent atmosphere and open interaction that colleagues from all over the world experience at Aqua Nor.

WE LOOK FORWARD TO WELCOMING YOU TO THE AQUA NOR FORUM 2007!