

“Creating an Optimum Environment”

Monday, April 12, 2021 just prior to AE2020

*Connection for registered participants from 8:45 - 9:00

09.00 Welcome from the EAS President 2020-2022, **Herve Migaud**, *University of Stirling, UK*

09.05 - 10.35 How do we best approach disinfection in the RAS loop?

The scope of this session will be to address the advantages and disadvantages of the disinfection protocols in RAS (for example use of ozone, UV), management of microbial communities and biosecurity.

Moderator: **Jaap van Rijn** *The Interuniversity Institute for Marine Sciences in Eilat (IUI), Israel*

Introductory presentation: **Chris Good** *The Conservation Fund Freshwater Institute, Shepherdstown, USA*

See the panellists on page 2.

10.30 - 11.00 Break

11.00 - 12.30 Where are we going with monitoring & autonomy?

Panellists will give their insights into the value of data from cameras, sensors and probes and other devices for real-time monitoring of RAS and how this can contribute to optimal system management.

Moderator: **Øyvind Fylling-Jensen** *NOFIMA, Norway*

Introductory presentation: **Bård Skjelstad** *ScaleAQ, Norway*

See the panellists on page 3.

12.30-14.00 Break

14.00 - 16.30 What are the most challenging interactions between fish & RAS environment?

While RAS technology has improved rapidly over recent years, understanding of the interactions between fish and RAS environment remain limited. This session will review and discuss some of these challenges.

Moderator: **Damien Toner** *Bord Iascaigh Mhara (BIM), Ireland*

Introductory presentation: **Jelena Kolarevic** *UiT The Arctic University of Norway/ Nofima, Norway*

See the panellists on page 4.

Registration is FREE for the EAS members, or 100 EUR for non-members.
Registration for this event can be made separately on the **AE2020 registration page**,
but all those registered for the full AE2020 event will be able to attend.



Scan this QR code to register, or click here.

For free access join the EAS

www.aquaeas.eu/cb-registration

How do we best approach disinfection in the RAS loop?



Jaap van Rijn

Moderator

Jaap van Rijn is a full professor at the Robert H. Smith Faculty of Agriculture, Food and Environment of the Hebrew University of Jerusalem in Rehovot, Israel. His research interests are microbial ecology and microbial processes affecting water quality in aquaculture systems. His group has developed an environmentally friendly RAS concept, which involves aerobic and anaerobic water treatment stages.

He is co-Editor-in-Chief of Aquacultural Engineering since 2001.



Christopher M. Good

Introductory presentation & Panellist

Christopher M. Good, DVM, PhD is the Director of Research at The Conservation Fund Freshwater Institute in Shepherdstown, USA. Chris's research has focused on improving the sustainability of the aquaculture industry through enhanced health and welfare of farmed fish, with recent emphasis on Atlantic salmon grown to market size in closed containment RAS facilities.

He is involved in peer-reviewed and industry publications, lectures at conferences and workshops, and frequent interaction with government, industry, and private non-profit stakeholders.

Chris is a Certified Aquatic Veterinarian with the World Aquatic Veterinary Medical Association and is a Diplomate of the American College of Veterinary Preventive Medicine.

Panellists:



Carlo Lazado
NOFIMA,
Norway



Aran Lavi
Atlantium Technologies,
Israel



Andries Kamstra
Kamstra Consult,
The Netherlands



Pieter van West
University of Aberdeen,
UK

Where are we going with monitoring & autonomy?



Øyvind Fylling-Jensen

Moderator

Dr. Fylling-Jensen has been the CEO of NOFIMA AS since 2009 and has led the transformation making it into a leading applied research institute in the food, aquaculture and seafood sector. Prior to this he had senior management roles at Matforsk AS (The Norwegian Institute of Food Research), Fjord Seafood ASA, Alpharma, Medlab and Dynal. He was also Associate Professor in veterinary pathology at the Norwegian School of Veterinary Science (NVH).

Øyvind has a veterinary degree from the University of Giessen, Germany (1981) and a PhD in veterinary pathology from the University of Giessen and NVH (1985). He has received management training from IMD, Harvard Business School, the Norwegian School of Economics, Norwegian School of Management and INSEAD. He has served on several boards, including the Executive Board of the Research Council of Norway (RCN) and its Portfolio Management Board for Life Sciences. He was Chairman of the Board of the University of Oslo Life Science Initiative.



Bård Skjelstad

Introductory presentation & Panellist

Baard Skjelstad, DVM, is the CTO of ScaleAQ. His experience comes not only from his previous veterinary practice but also from several years with AquaGen, SalMar, VESO and more. His focus has mainly been on biosecurity, fish welfare and general optimization. Skjelstad currently also holds a position as guest researcher at NTNU in Trondheim.

Panellists:



Bjarne Hald Olsen

Billund Aquaculture,
Denmark



Nikos Katribouzas

Andromeda Group,
Greece



Eleni Kelasidi

Sintef,
Norway



John Richmond

MOWI,
UK

What are the most challenging interactions between fish & RAS environment?



Damien Toner
Moderator

Having worked in the commercial shellfish and finfish sectors previously, Damien's role at BIM focuses on new species and innovations. He has significant experience with RAS design and operation in hatcheries and Nursery systems and his work includes helping companies develop new products and services for the aquaculture industry. Damien is also interested in how RAS design and methodologies can be better applied to semi intensive systems.



Jelena Kolarevic
Introductory presentation & Panellist

Jelena Kolarevic is a senior research scientist at NOFIMA, Norway and the leader of Department for Technology and Environment in the Centre for Research-Based Innovation in Closed-Containment Aquaculture (CtrlAQUA). She has background in population ecology, fish physiology, molecular biology and fish reproduction biology. Since 2008, she has been working with the topics related to the recirculating aquaculture systems and since 2013 with semi-closed containment systems in the sea. The focus of her work with closed containment systems are fish welfare and performance, the environment and fish monitoring and their interaction and automation, as well as equipment testing in above mentioned systems. From January 2021, Jelena will start working as a Professor in RAS biology at the Norwegian College of Fishery Science, The University of Tromsø – The Arctic University of Norway, Norway.

Panellists:



Frederic Gaumet
Krüger Kaldnes AS,
Norway



Jon Walden
Grieg Seafood Shetland,
UK



Alexander Brinker
Fishery Research Center
(FFS),
Germany



Rod Wilson
University of Exeter,
UK

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aquaculture
society
corporate



Our Aquaculture Europe events attract close to 100 companies from the aquaculture value chain.

**EAS is offering CORPORATE MEMBERSHIP
to companies that support our objectives and have
a desire to be part of our community on a year-round basis.**

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