

# Programme

## PROVISIONAL AGENDA

### **Perspectives for Fishmeal and Fish Oil in light of the management of forage fisheries, alternative uses of meal and oil and the development of new feeds and technologies**

A Symposium jointly organised by the Nordic Marine Think Tank and EUfishmeal with funding support from the Nordic Council of Ministers to take place at the North Sea Centre, Hirtshals, on August 29-30, 2016.

#### **Day 1 - August 29, 2016**

Chair: Hartvig Joensen - Manager, Havsbrún

#### **11:00-12:00 Opening of Symposium**

Welcoming Remarks by EUfishmeal (Johannes Palsson), NMTT Chair (Sten Sverdrup-Jensen) and State Secretary for Fisheries, Norway (Ronny Berg).

#### **12:00-13:30 NETWORK LUNCH**

#### **13:30 - 14:15 Keynote Introductions to Symposium - Setting the Scene**

Fishmeal and fish oil: Why bother? - Opportunities and challenges (Frank Asche, University Stavanger)

Fishmeal and fish oil: social and economic contribution of the fishmeal and fish oil value chain (Carl-Christian Schmidt, NMTT)

#### **14:15 - 16:00 Biological challenges of Forage Fisheries, moderated by Henrik Mosegaard, DTU-Aqua**

Managing forage fisheries in a Nordic context (Hans Lassen, NMTT)

Do forage fisheries impact other parts of the eco-system? State of knowledge, (Anna Rindorf, DTU Aqua)

Eco-system functioning and management of pelagic species (Henrik Sparholt, NMTT)

How can knowledge and data from the fishing industry be integrated in stock assessments (Esben Sverdrup-Jensen, Danish Pelagic Producers' Organisation)

#### **16:00 - 16:30 Coffee and Networking**

#### **16:30 - 17:45, Forage fisheries, Food Security and Other Societal Concerns, moderated by Dawn Purchase, Aquaculture Programme Manager, Marine Conservation Society, UK**

The Importance of Forage Fisheries - Linking Forage Fisheries to Food Security (Stefania Vannuccini, FAO)

MSC Certification of Forage Fisheries (Camiel Derichs, Regional Director Europe, Marine Stewardship Council)

## The purpose

*The purpose of the symposium is to bring stakeholders together for an informed discussion of trends, challenges and opportunities for the fishmeal and fish oil value chains (catch, processing and end use i.e. from supplies over processing to demand) in light of changing policy environments with respect to fisheries management, regulatory framework, food security, technological developments and changing stakeholder views.*

*As a background it is noted that fishmeal and fish oil have for many years been of central importance to the feed compounds industry for use in animal feed, for both fish and land-based animals. Over the past decade an increasing demand for fish meal and fish oil for aquaculture and pharmaceuticals has resulted in increasing prices.*

*Concurrently, innovation in plant breeding technologies and the use of alternatives to small pelagic fish (such as seaweed) has made it feasible to substitute traditional fishmeal with new meal products with Omega3 content. Aquaculture feed technologies have also evolved and the need for fish oil in feeds has decreased while the overall demand has gone up due to an increased global aquaculture production. In some countries public opinion has raised concerns about the use of pelagic resources for animal feed. Concurrently, the extent to which fishmeal and fish oil can be substituted, without compromising fish health and quality, is a challenge. A better mapping and understanding of fishmeal and fish oil's economic, biological and social interaction with the marine environment and the sector's economic and social contribution is warranted.*

## Background Documents

 [Download program](#)

 [Fishmeal and Oil Why Bother](#)

 [Social and Economic Contribution Value Chain](#)

The future for fishmeal and fish oil in feed ingredients (Chris Nannes, Aquaculture Stewardship Council)

 [Forage Fish in the Marine Environment and Their Management](#)

Potential future source of raw material: What do we know? (Michael St. John, DTU Aqua)

#### **19:10 Welcome-drink at the Oceanarium**

**19:30 Symposium Networking Dinner, hosted by EUfishmeal - North Sea Centre, Hirtshals. Dinner speech by Lene Kjeldgaard, Mayor of Thisted, Denmark.**

Day 2 - August 30, 2016

#### **9:00-11:00 Fishmeal and Fish Oil Value Chain Perspectives, moderated by Frank Asche, University of Stavanger, Norway**

Fishmeal and fish oil and its role in sustainable aquaculture (Andrew Jackson, IFFO)

The importance of fishmeal and fish oil in Salmon Diets (Odd Eliassen, Havsbrun and Bakkafrost)

Mastering the Omega-3 distribution balancing act (Mari Moren, Nofima)

Marine ingredients in the new bio-economy (Tormod Thomsen, Firmenich)

Innovation needs - Developing fishmeal and fish oil as package nutrients (Anders Aksnes, Cargill)

#### **11:00 Coffee and leg-stretching**

#### **11:30-12:30 Roundtable Discussion moderated by Jóhann Sigurjónsson, Ministry of Foreign Affairs, Iceland**

The panel will include Odd Eliassen, Frank Asche, Anders Aksnes and Henrik Sparholt.

Closing remarks by Hartvig Joensen, NMTT Chair and EUfishmeal Chair

#### **12:30 - 14:00 Lunch**