



OFFSHORE MARICULTURE CONFERENCE 2014

9-11 April 2014 • Plaza Caserta • Naples • Italy

Two day conference, including conference dinner
11 April 2014: visit to offshore fish farm

SUPPORTED BY:



Conference Programme

Investing in the future of Offshore Mariculture

The 5th Offshore Mariculture Conference is the perfect meeting place for professionals who are looking to gain valuable information on the progress and prospects for farming offshore such as the latest policies, products, research and case studies within the fin/shell fish and seaweed offshore farming industries. The 2014 event will explore the progress and prospects for offshore aquaculture in both European and international waters and includes a technical visit to a fish farm allowing delegates a comprehensive insight in to how offshore fish farms are operating today.

Conference chair: Alessandro Lovatelli, Aquaculture Officer, Aquaculture Manager and Conservation Service (FIRA), Fisheries and Aquaculture Department, FAO of the UN. **Keynote speakers:** Jose Aguilar-Manjarrez, Aquaculture Officer, FIRA and FAO; James McDaid Kapetsky, FAO Consultant; Jeff Jenness, FAO Consultant; Paul Holthus, founding President/CEO, World Ocean Council; Katherine Hawes, Principal, Aquarius Lawyers "The Fish Lawyer"

SPONSORED BY:



MEDIA SUPPORTERS:



A MERCATOR MEDIA EVENT

mercatormedia³
magazines events online

CPD
MEMBER
The CPD Certification Service

www.offshoremariculture.com

The Offshore Mariculture Conference is a Mercator Media Ltd event

Who should attend

This is a must attend event for anyone involved in, or looking to become involved in, offshore mariculture. Our 2012 conference saw over 120 attendees from over 26 countries attend making use of the excellent networking opportunities, whilst learning from key industry speakers more about this rapidly expanding industry.

Special rates available for fish farmers

To ensure the Offshore Mariculture Conference is readily accessible for fish farmers worldwide, we are pleased to offer these individuals preferential rates. All places include invitations to the conference dinner and offshore fish farm visit. To obtain codes for reduced rates please contact the Events team on +44 1329 825 335 or email conferences@offshoremaraiculture.com



WEDNESDAY 9 APRIL 2014

08.15 REGISTRATION AND NETWORKING COFFEE

09.00 Welcome Address

Pier Antonio Salvador, President, Associazione Piscicoltori Italiani (API)

Session One - Introduction and Keynote presentations

09.10 Setting the scene for the Offshore Mariculture Conference 2014

Chairman: Alessandro Lovatelli, Aquaculture Officer, Aquaculture Management and Conservation Service (FIRA), Fisheries and Aquaculture Department, FAO of the UN

09.20 The what, where and how much of offshore mariculture: global development opportunities from a spatial perspective

José Aguilar-Manjarrez, Aquaculture Officer, FIRA and FAO, James McDaid Kapetsky, FAO Consultant and Jeff Jenness, FAO Consultant

09.40 International ocean policy developments and offshore aquaculture – global and regional actions affecting the future of your business

Paul Holthus, founding President/CEO, World Ocean Council

10.00 Legal issues effecting offshore aquaculture development

Katherine Hawes, Principal, Aquarius Lawyers "The Fish Lawyer"

10.20 Question & Answers to speakers from session one

10.30 NETWORKING COFFEE BREAK

Session Two – Investment in Offshore Mariculture today

11.00 Aquaculture Certification Scheme: managing expectations to maximize investment returns in offshore mariculture

Carson Roper, Independent Consultant, Seafood Industry Liaison
Identifying and understanding the economic benefits of satisfying market expectations through aquaculture certification is a pre-requisite for informed investments. This presentation explores the implications of external expectations for the industry.

11.20 Cage aquaculture in the Kingdom of Saudi Arabia: current situation and sector development plans

Francesco Cardia, Project Manager, FAO of the UN
The presentation will report on the current status of the cage aquaculture industry in the Kingdom of Saudi Arabia and focus on relevant actions of the recently approved national aquaculture development plan. An overview on existing farming operations will be provided (data updated to 2013).

11.40 Investing in environmentally sustainable offshore aquaculture: the risks, challenges and opportunities.

Robert Orr, Chief Executive Officer, Cuna de Mar LP
Significant investments are required; to be successful in transforming the industry to an offshore and environmentally sustainable platform. Robert Orr will share experiences, perspectives on the risks, challenges and opportunities of investing in this sector.

12.00 Questions & Answers to speakers from session two

12.10 NETWORKING LUNCH

Session Three – Equipment Update by Manufacturers

13.40 VIPICUL, Offshore Fish Farm Protection

Alfredo Leret, Director, Inteo Media Mobile

13.50 DDD - Dolphin Dissuasive Device

Martin Ipuche, Marketing Manager, STM PRODUCTS SRL

Session Four – Technological Innovations for Offshore Mariculture – Cage and Nets

14.00 Offshore fish farm cage bridle and anchoring system

Ludvig Karlsen, Associate Professor, Norwegian University of Science and Technology
In-depth description of farms and equipment available today for salmon offshore fish farming, including floater design and capabilities, net designs, bridle system for circular cage floater farms, anchoring frames and traditional connection plate designs.

14.15 Development of air diffusion system for oxygenation in Mediterranean cage culture

Henrik Grundvig, Aquaculture Consultant, Product Development Division, Teknologisk Institutt AS
Suboptimal dissolved oxygen (DO) levels are experienced periodically during the warm season in many Mediterranean fish farms. AirX is a new diffuser based aeration concept for control of dissolved oxygen levels in aquaculture that is under development, designed for use in large rearing units.

14.30 New solutions for net management in offshore cages

Terry Drost, President, Four Links Marketing Ltd
As we move further offshore fish containment systems are becoming more substantial and rigid requiring new approaches for cleaning and maintenance of water flow through the nets. Insitu net cleaning has also advanced significantly with the development of Remote Operated Net Cleaners (RONCs) by Multi Pump Innovations (MPI) of Norway, which offer a new solution to onsite net management.

14.45 Ocean farming at temperature edge: advantages of movable cages in a case study for Madeira Island

Carlos Andrade, Head of Marine Aquaculture Division, Fisheries Directorate of Madeira Autonomous Region
Ocean fish farming is seldom presented as the new frontier for aquaculture; the opportunity to overcome space limitations and conflicts with other water users. Several models of ocean cages have been proposed and tested. If linked to geo positioning systems, this latest type of cage would have a high degree of autonomy, ensuring minimal conflict and risks for both infrastructure and live stocks.

15.00 Submersible cage operated by variable ballast

Alessandro Ciattaglia, Sales & Marketing Manager, BADINOTTI GROUP SpA and Davide Caprile, R&D Technical Assistant, BADINOTTI GROUP SpA
The use of submersible cages allows farmers to develop aquaculture activities in exposed and unprotected sea sites, improving the potential production of a coastal region, whilst ensuring the environmental compatibility of farming sites. At the same time, farmers can achieve a significant improvement in quality.

15.15 Environmentally friendly, single-point mooring submersible and flexible net cage aquaculture systems

Josef Melchner, Vice President, SUBflex, Open Ocean SPM Net Cage Systems
SUBflex is an Israeli based technological company, which designs and commercialises innovative Submersible Net Cage Systems for offshore fish farming. SUBflex presents its tailor-made solutions for specific requirements and site conditions, based on years of experience with offshore fish farming.

15.30 Questions & Answers to the speakers from session four

15.40 NETWORKING COFFEE BREAK

Session Five – Offshore Mariculture Past and Present – Moving on from 2012

16.10 Danish aquaculture industry goes offshore

Karl Iver Dahl-Madsen, President and Lisbeth Jess Plesner, Chief Advisor, Danish Aquaculture
At the 2010 conference researchers and industry representatives laid out a vision for offshore farming in part of the 105.000km² Danish territorial waters. As of today, a new pilot scale offshore trout farm has been constructed in the open Great Belt in May 2013. The projects are ongoing, but preliminary findings will be discussed.

16.30 Offshore mobile revolving and submersible fish cage: a solution to further expand offshore?

Siegfried Beck, International Aquaculture Consultant
This innovative cage swims permanently in clean oxygenated waters below the wave trough preventing stress to the fish, whilst the integrated MAC-Marine Aquaculture Center with large food stores and an innovative liquid feeder serves the cage; renewable wind and solar energy makes MAC entirely independent.

16.50 Green growth marine aquaculture development in Turkey

Hayri Deniz, Director of Overseas Investments and International Relations, Kilic Seafood Company
Turkey has great potential for aquaculture amounting to a total water surface area of 26 million ha and rivers of 177,714km total length. The offshore fish farming market began in the early 1970s with an involvement only in rainbow trout culture and has grown to total fisheries production of 644,852 tons in 2012, making it the fastest growing food production sector in Turkey in the last decade.

Conference dinner Offshore fish farm visit

The conference dinner will be held at Antica Hostaria Massa dal 1848 restaurant in the historic centre of Naples. The dinner will be held on 9 April 2014 and will provide a great atmosphere for delegates to continue networking. An invitation is included with every delegate place and coach transfer will be provided to and from the hotel.

Following the two days of technical presentations and discussions, delegates will have the opportunity to participate in a visit to the Piscicoltura del Golfo di Gaeta (P2G) fish farm, which consists of 72 floating cages. This will be a full day excursion not returning until late afternoon/early evening. Coach transfers to and from the hotels and a buffet lunch will be provided.



17.10 Why offshore mariculture is a viable investment – an analysis of Kampachi Farms

Toby Baxendale, UK Entrepreneur

After meeting at the Offshore Mariculture Conference 2012 in Turkey, a success story between Toby Baxendale, UK Entrepreneur and Kampachi Farms was born. Learn more about this story and how to ensure the viability of a mariculture project. The presentation will further look at ways on how investments can be achieved.

17.30 Questions & Answers to speakers from session five

17.40 Round up of day one of the conference from the Chairman

19.00 Meet in hotel reception

19.30 Conference Dinner at the Antica Hostaria Massa dal 1848

THURSDAY 10 APRIL 2014

08.30 REGISTRATION AND NETWORKING COFFEE

09.15 Welcome to day two of the conference from the Chairman

Session Six – Stock Management

09.25 Water quality monitoring in open ocean aquaculture: does sound science make sense?

Neil Anthony Sims, President, Ocean Stewards Institute

This presentation provides an outline of a white paper by the Ocean Stewards Institute on the need for greater scientific rigor in design, implementation and oversight of water quality monitoring in open ocean aquaculture. The paper will provide a synopsis of the available science on water quality impacts around open ocean mariculture sites.

09.55 GIS and selection of an offshore organic salmon farm on the West coast of Ireland

Benen Dallaghan, GIS Officer, BIM, Irish Sea Fisheries Board

An overview of salmon aquaculture in Ireland and tracing the use of GIS as part of the site selection process for an offshore organic salmon farm within Galway bay.

10.25 Viral Nervous Necrosis (VNN) disease as a new threat in the aquatic ecosystem of the Caspian Sea

M.E.J. Zorriehzahra, Head of Aquatic Animal Health & Disease Dept., Iranian Fisheries Research Organisation

VNN is a disease affecting several species worldwide. To now, more than 50 species have been affected and this is likely to rise following the increase of aquaculture trade.

10.55 Questions & Answers to the speakers from session six

11.05 NETWORKING COFFEE BREAK

Session Seven – Fish Nutrition & Feed Management

11.35 Resources for fish feed in future mariculture

Yngvar Olsen, Trondhjem Biological Station, Department of Biology, Norwegian University of Science and Technology

There is a growing concern about the ability to produce enough nutritious foods to feed the global human population; environmental conflicts and a limited freshwater supply constrains further developments in agriculture. The main aim of this paper is to speculate on how feed supplies can be produced for an expanding aquaculture industry by and beyond 2050 and to establish a roadmap of the actions needed to achieve this.

11.55 Active control in offshore aquaculture feeding management

Juan Antonio González, Technical Support Manager, Skretting Southern Europe

Achieving profitability in offshore marine fish aquaculture is mainly related to low production costs. The most important production cost is fish feed, and applying the correct feeding strategy can be challenge, this presentation will active control feeding management to address this challenge.

12.15 Hydraulic feed distribution for submerged open ocean cages

Stephen Page, General Manager, Ocean Farm Technologies

This presentation will review the history of hydraulic feed delivery systems, state of the art, and future needs for technology development in this field. Much of the technology required is currently being used with success in adjacent industries.

12.35 Questions & Answers to the speakers from session seven

12.45 NETWORKING LUNCH

Session Eight – Integrating Offshore Mariculture with Renewable Energy

14.00 Blue energy for offshore cage culture

David Campbell, Chief Financial Officer, Albatern

In early 2013 Albatern carried out a feasibility study for the UK Government and confirmed the viability of providing power from wave energy for use in offshore aquaculture in waves from 0.3m significant height to the design limit of the current device at 6m significant.

14.20 Multi-Trophic Aquaculture (IMTA) and Macroalgal Cultivation

Dr Adrian MacLeod, Environmental Impact Assessment Consultant, SAMS Research Services Ltd (SRSL)

Food and energy security remain important future objectives as the human population is set to increase to 9-10 billion over the next 40 years. SRSL, is underpinned by a legacy of scientific research in the use of Integrated Multi-Trophic Aquaculture (IMTA) in the production of seaweed for food and natural products.

14.40 Aquaculture as a part of a multi-use platform

Erik Damgaard Christensen, Professor, DTU Mechanical Engineering, Technical University of Denmark

Presentation of preliminary results and ideas from the “Ocean of Tomorrow” project MERMAID which develop concepts for the next generation of offshore platforms for multiple purposes. The project will theoretically examine new concepts, such as combining structures for energy extraction, aquaculture and platform related transport.

15.00 Farming the deep blue with multi-use offshore platforms

James Ryan, Managing Director, AquaVision

The need for sustainable open ocean systems is even more pressing and a partnership approach could result in significantly increased funding for the technology development required for success.

15.20 Questions & Answers to the speakers from session eight

15.30 NETWORKING COFFEE BREAK

Session Nine – Equipment update by manufacturers

16.00 Developments with offshore cages: application of modern netting materials

Darko Lisac, Managing Director, Refa Med Italy

Session Ten – Fish Farm Case Study

16.20 Gaeta fish farm – case study

Alessandro Galio, Production Manager, Azienda Ittica San Giorgio srl

16.40 Questions & Answers to speaker from session ten

16.50 Round up of conference from the Chairman

FRIDAY 11 APRIL 2014

Visit to offshore fish farm

Conference programme is subject to change and final confirmation

