# **WEFTA 2019 CONFERENCE PROGRAMME**

# MONDAY 14<sup>TH</sup> OCTOBER 2019

14:00 - 18:00	WEFTA Analytical Working Group Meeting
16:00 - 19:00	Registration at Hotel Føroyar
18:00 - 20:00	WEFTA National Representatives Meeting
19:30 - 21:00	Welcome Reception - Müllers Pakkhús (Council of Tórshavn/Tórshavnar Býráð)

#### TUESDAY 15<sup>TH</sup> OCTOBER 2019

08:00 - 09:00	Registration at Hotel Føroyar
09:00 - 09:20	Opening Ceremony of WEFTA 2019
	Jákup Mørkøre, chair WEFTA 2019
	Welcome Minister of Fisheries - Jacob Vestergaard

#### **SESSION 1:** Value creation from pelagic and demersal fisheries (Industry Session)

Chairpersons: John Fagan, BIM, Ireland and Ása Jacobsen, Fiskaaling, Faroe Islands

- **09:20 09:50 KO1 KEYNOTE ADDRESS:** Flemming Jessen, DTU Aqua, Denmark (WEFTA Award winner 2018) Rigor mortis and seafood quality
- **09:50 10:10 KO2 KEYNOTE ADDRESS:** Ole J. Marvik, Special Advisor for Life Sciences at Innovation, Norway Exploring/unleashing business opportunities within new marine resources and advanced biorefining
- **10:10 10:30 KO3 KEYNOTE ADDRESS:** Michael Gallagher, Pelagic Sector Manager within BIM, Ireland Developing higher value opportunities from an under-utilised resource: blue whiting
- **10:30 10:45 KO4 KEYNOTE ADDRESS:** Bogi Jacobsen, Man. Dir. of Varðin Pelagic, Faroe Islands Bigger production units in pelagic fish area herring, mackerel and blue whiting and especially VAS
- 10:45 11:15 Coffee break and poster viewing Sponsored by LÍV

## CONTINUATION SESSION 1: Value creation from pelagic and demersal fisheries (Industry Session)

- 11:15 11:35 OP01 Maria Hayes, Teagasc, Ireland

  Adding value to marine pelagic by-products: Functional foods and nutrition for pets
- 11:35 11:55 OP02 Mursalin Sajib, Chalmers University of Technology , Sweden

  Towards optimized valorization of herring (Clupea harengus) filleting by-products to silages: effect of temperature and time on lipid oxidation, protein hydrolysis and TVB-N
- 11:55 12:15 OP03 Themistoklis Altintzoglou, Nofima AS, Norway

  Why do consumers involved in food waste reduction need more convincing to become positive about products that include by-product ingredients?
- 12:15 12:20 OP04 Anni Nisov, VTT, Finland

  Restructured fish meat from whole Baltic herring by high-moisture extrusion cooking
- **12:20 12:25 OP05** Bjørg Helen Nøstvold, Nofima, Norway Social sustainability as a market driver

<b>SESSION 2:</b> Sustainable aguaculture – healtl	thy production tod	av and in the	tuture
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Chairpersons: Jasper van Houcke, HZ University of Applied Sciences, the Netherlands and Bjørn Tore Rotabakk, Nofima, Norway

- **12:25 12:45 KO5 KEYNOTE ADDRESS:** Atli Gregersen, Man. Dir., Hidden Fjord, Faroe Islands
  Faroese aquaculture from the beginning until today. The position of aquaculture today and the development in the future
- 12:45 12:50 OP06 Julia Mougin, Institute Charles violette, France
  "I will survive": when Vibrio harveyi in fish farming systems thinks he is Gloria Gaynor!
- **12:50 12:55 OP07** Philip James, Nofima, Norway *AQUAVITAE: New species, processes and products contributing to increased production*
- 12:55 13:00 OP08 Agnes Mols-Mortensen, Fiskaaling, Faroe Islands

  Exploring the potential of macroalgae in an integrated multi-trophic aquaculture system in the Faroe Islands
- 13:00 14:00 Lunch Sponsored by Høvdavirkið, FMP P/F

## **CONTINUATION SESSION 2:** Sustainable aquaculture – healthy production today and in the future

- 14:00 14:20 OP09 Jasper van Houcke, HZ University of Applied Sciences, the Netherlands

  Refinement of Pacific cupped oysters (Crassostrea gigas) by exogenous uptake of free amino acids
- 14:20 14:40 OP10 Narcisa Bandarra, IPMA, Portugal

  Lipid and mineral composition and elemental bioaccessibility of farmed oysters (Crassostrea gigas) fed different alga-based diets
- 14:40 15:00 OP11 Alberto Maximiliano Crescitelli, NTNU, Norway

  Computer vision approach used to build large datasets of fish species using video footages in fish farms environments
- 15:00 15:20 OP12 Rúni Weihe, Havsbrún, Faroe Islands

  An alteration of the "fish in fish out" model to a food productivity assessment: the case of farmed Atlantic salmon (Salmo salar L.)
- 15:20 15:50 Coffee break and poster viewing Sponsored by Oilwind P/F

#### CONTINUATION SESSION 2: Sustainable aquaculture - healthy production today and in the future

- **15:50 16:10 OP13** Gunnvør á Norði, Fiskaaling, Faroe Islands

  Modelling the potential bio-mitigation by blue mussel at a commercial fish farm
- **16:10 16:30 OP14** Ása Johannesen, Fiskaaling, Faroe Islands Waves limit the space available to salmon in a salmon cage
- **16:30 16:50 OP15** Ása Jacobsen, Fiskaaling, Faroe Islands *Gaping in salmon fillets a different approach*

#### **SESSION 3:** Zero waste production and biorefining

Chairperson: Margrét Geirsdóttir, Matis, Iceland

- **16:50 17:10 KO6 KEYNOTE ADDRESS:** Sigurjón Arason, Matís, Iceland Zero waste production and biorefining (total utilisation)
- 17:10 17:15 OP16 Federico Casanova, DTU, Denmark

  Potential application of gelatine from fish skin in food products: physico-chemical and colloidal approach
- 17:15 17:20 OP17 Kristine Kvangarsnes, NTNU, Norway

  Properties of hydrolysates made from stored heads of farmed trout (Oncorhynchus mykiss)
- 17:20 17:25 OP18 Mohd Abual Taher, NTNU, Norway

  Approaching SDG target 12.3: Post-harvest processing of Farmed Salmon in Norway
- 17:25 17:30 OP19 Eirin Bar, NTNU, Norway

  The efficiency of shelf life extension efforts to prevent food loss and waste of seafood products

## WEDNESDAY 16<sup>™</sup> OCTOBER 2019

#### **CONTINUATION SESSION 3:** Zero waste production and biorefining

Chairpersons: Veronique Bagnis-Verrez, Ifremer, France and Alexandre Descomps, Nofima, Norway

- **08:45 09:05 OP20** Haizhou Wu, Chalmers University of Technology, Sweden Extending the shelf life of herring by-products to increase the possibilities for value-adding
- **09:05 09:25 OP21** Fionn Ó Fearghail, Technical University of Dublin, Ireland Exploring shellfish by-products as sources of blue bioactivites
- **09:25 09:45 OP22** Nina Gringer, Technical University Denmark, Denmark

  The use of enzymes and autolysis to increase the protein concentration in blue mussel meal
- **09:45 10:05 OP23** Mehdi Abdollahi, Chalmers University of Technology, Sweden

  Turning the pH-shift process to a multiple product biorefinery platform to meet zero waste goal in seafood processing
- 10:05 10:25 OP24 Diana Lindberg, Nofima, Norway
  Rapid process measurements for process control and product quality optimization in the enzymatic protein hydrolysis industry
- **10:25 10:45 OP25** Jingnan Zhang, Chalmers University of Technology, Sweden *CROSS -a novel concept for preventing lipid oxidation during pH-shift processing*
- 10:45 11:15 Coffee break and poster viewing Sponsored by Faroe Origin P/F

## **CONTINUATION SESSION 3:** Zero waste production and biorefining

11:15 – 11:35 OP26 Margrét Geirsdóttir, Matis, Iceland

Chemical properties of the various parts of cod heads as effected by different processing methods

11:35 – 11:55 OP27 Silje Steinsholm, Nofima, Noway

Application of nuclear magnetic resonance (NMR) to assess the development of flavor attributes during enzymatic protein hydrolysis

11:55 – 12:00 OP28 Gudrun Svana Hilmarsdottir, University of Iceland, Iceland
Pilot flash-heat processing of Atlantic mackerel side-streams compared to traditional fishmeal production

#### SESSION 4: Health effects of seafood consumption and promotion of marine-based food

Chairperson: Ingrid Undeland, Chalmers University of Technology, Sweden

- 12:00 12:20 KO7 KEYNOTE ADDRESS: Pál Weihe, Director, Ph.D., Department of Occupational Medicine and Public Health, Faroe Islands, Health & Ocean (seafood)

  Health & Ocean (seafood)
- **12:20 12:25 OP29** Jaakko Hiidenhovi, Natural Resources Institute Finland (Luke), Finland Isolation of value-added fractions from Baltic herring side streams

#### **SESSION 5:** Seafood safety and authenticity (emerging risks)

Chairperson: Alexandre Dehaut, Anses, France

- **12:25 12:55 KO8 KEYNOTE ADDRESS:** Tinka Murk, Wageningen University Research, the Netherlands *Microplastics in seafood, mega worries but a negligible health risk*
- 12:55 13:00 OP30 Sónia Pedro, IPMA, Portugal

  Limpets: nutritional composition and chemical and microbiological contamination
- 13:00 14:00 Lunch Sponsored by Vestmanna Seafood P/F

#### **CONTINUATION SESSION 5:** Seafood safety and authenticity (emerging risks)

Chairpersons: Johan Robbens, ILVO, Belgium and Isabel Sánchez-Alonso, ICTAN, Spain

- **14:00 14:20 OP31** Alexandre Dehaut, Anses, France

  Toward harmonization and good practices for the study of microplastics in seafood?
- **14:20 14:40 OP32** Ane Del Rio, AZTI, Spain

  New molecular tool for tracing geographical origin of farmed mussels
- 14:40 15:00 OP33 Ole Mejlholm, Royal Greenland, Denmark

  Smoked and marinated seafood: From high risk to low risk products a review of more than 15 years of collaboration between research and the industry
- **15:00 15:20 OP34** Jørgen Lerfall, NTNU, Norway

  A environmental friendly and healthy shift in cold-smoke processing of Atlantic salmon (Salmo salar L.)
- 15:20 15:25 OP35 Anita Nordeng Jakobsen, NTNU, Norway

  Screening of lactic acid bacteria for inhibition of pathogenic bacteria in lightly processed seafood

15:25 – 15:30 OP36 Vangelis Economou, Aristotle University of Thessaloniki, Greece

Evaluation of the shelf-life and the survival of halophilic pathogenic bacteria during salting and preservation of anchovy fillets

15:30 – 16:00 Coffee break and poster viewing - Sponsored by Fiskamarknaður Føroya - Faroe Fish Market P/F

#### **CONTINUATION SESSION 5:** Seafood safety and authenticity (emerging risks)

Chairperson: Jan Fritsche, Max Rubner-Institut, Germany

16:00 - 16:20 OP37 Mercedes Careche, ICTAN, Spain

Anisakis L3 Modifications in the resistance to the action of gastric enzymes after freezing treatments given to minces infected under controlled conditions

16:20 - 16:40 OP38 Isabel Sánchez-Alonso, ICTAN, Spain

Absorption of Anisakis spp. proteins using human Caco-2 cellular model

**16:40 – 16:45 OP39** Aslı Cadun Yunlu, Ege University, Turkey

Occurence of Anisakis in fish products in Turkey

16:45 - 16:50 OP40 Ana G. Cabado, ANFACO-CECOPESCA, Spain

Development and implementation of a detoxification procedure to reduce PSP toxins in mussels

**16:50 – 16:55 OP41** Sónia Pedro, IPMA, Portugal

Evaluation of nutritional value and contamination of the invasive tunicate species

19:00 – 23:00 Conference dinner at Listsavn Føroya, National Gallery of the Faroe Islands -

Sponsored by Nótaskip and JFK P/F

## THURSDAY 17<sup>™</sup> OCTOBER 2019

## **SESSION 6:** Micro and macroalgae and future applications

Chairperson: Narcisa Bandarra, IPMA, Portugal

**09:00 – 09:20 KO9 - KEYNOTE ADDRESS:** Ólavur Gregersen, Man. Dir., Ocean Rainforest/Syntesa, Faroe Islands

Seaweed cultivation and Blue Bioeconomy in the Faroe Islands

09:20 - 09:40 OP42 Frederike Reimold, Prof. Dr., University of Applied Sciences, Bremen, Germany

Packaging concept based on macroalgae for food applications

**09:40 – 09:45 OP43** Urd Grandorf Bak, Ocean Rainforest Sp/F, Faroe Islands

An investigation of the biochemical composition of kelps cultivated in open-ocean in the Faroe Islands in a commercial perspective

#### SESSION 7: Advanced processing technologies and impact on quality of seafood

Chairpersons: Mercedes Careche, ICTAN, Spain and Margrethe Esaiassen, UiT, Norway

09:45 – 10:05 OP44 Anlaug Ådland Hansen, Nofima, Norway

Quality and shelf life of anaerobic packaged mackerel fillets by use of recyclable packaging materials

10:05 – 10:25 OP45 Janna Cropotova, NTNU, Norway

Effect of pulsed electric field (PEF) pre-treatment on quality parameters of salted sea bass

10:25 – 10:45 OP46 Jonas Steenholdt Sørensen, National Food Institute, Denmark
Superchilling of Atlantic cod from Greenland extent shelf-life to more than 32 days and MAP (40%
CO2 /60 % N2) in combination with superchilling prevent microbial spoilage

## 10:45 - 11:15 Coffee break and poster viewing - Sponsored by Oilwind P/F

## CONTINUATION SESSION 7: Advanced processing technologies and impact on quality of seafood

11:15 – 11:20 OP47 Cheryl Marie Cordeiro, Nofima, Norway Market Access: A Keyword in Context Study

**11:20 – 11:25 OP48** Grete Hansen Aas, NTNU, Norway

Quality of monkfish from catch to market- Comparison of flake ice and slurry ice as chilling method

**11:25 – 11:45 OP49** Neil Anders, IMR, Norway

Physiological and flesh quality consequences of pre-mortem crowding stress in Atlantic mackerel (Scomber scombrus)

11:45 – 12:05 OP50 Stein-Kato Lindberg, Nofima, Norway

Restitution of trawl-caught fish and its effect on blood concentration in fillets

**12:05 – 12:25 OP51** Turid Rustad, NTNU, Norway

Changes in quality characteristics of sous-vide cooked Atlantic salmon treated with natural antioxidants from Mediterranean plants during chilled storage

12:25 – 12:45 OP52 Sherry Stephanie Chan, NTNU, Norway

Effect of superchilling on water holding properties throughout the whole value chain: from whole to cold-smoked Atlantic salmon (Salmo salar L.)

12:45 – 12:50 OP53 Juan Benito Calanche Morales, IA2, Spain

Sensory quality of defrosted cod fillets using ultra sound technology, an opportunity to improve thi process in the industry

**12:50 – 12:55 OP54** Marthe Jordbrekk Blikra, Nofima/DTU, Norway

Modelling with data from «The Internet of Fish»

**12:55 – 13:00 OP55** Janna Cropotova, NTNU, Norway

Assessing changes in quality parameters of sous-vide cooked Atlantic cod by spectroscopic techniques coupled with conventional methods of analysis

## 13:00 - 14:00 Lunch - Sponsored by Tavan Sp/f

## **CONTINUATION SESSION 7:** Advanced processing technologies and impact on quality of seafood

Chairpersons: Nina Gringer, Technical University Denmark, Denmark and Tibor Janči, University of Zagreb, Croatia

**14:00 – 14:20 OP56** Jan Fritsche, Max Rubner Institute, Germany

Formation and mitigation strategies of esterified and free monochloropropanediol (MCPD) in fried and smoked fishery products

14:20 - 14:40	<b>OP57</b> Cécile Dargentolle, Matis, Iceland  Prediction modelling of sensory palatability of frozen Atlantic mackerel (Scomber scombrus) from chemical evaluations
14:40 - 15:00	<b>OP58</b> Hildur Inga Sveinsdóttir, Matis, Iceland  Effect of antioxidants on the sensory quality and physicochemical stability of Atlantic mackerel (Scomber scombrus) fillets during frozen storage
15:00 - 15:20	<b>OP59</b> Karsten Heia, Nofima, Norway  How can rapid non-destructive blood analysis, based on hyperspectral imaging, contribute to higher quality of landed fish?
15:20 - 15:25	OP60 Silje Kristoffersen, Nofima, Norway Live-storage, feeding and quality of Atlantic cod (Gadus morhua L.)
15:25 - 15:30	<b>OP61</b> Burcu Şen Yılmaz, Ege University, Turkey Replacement of sodiumchloride with potassiumchloride in marinated shrimps
15:30 - 16:00	Coffee break and poster viewing - Sponsored by Fiskavirkið P/F
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16:00 - 16:05	<b>OP62</b> Silvia Tappi, University of Bologna, Italy  Valorisation of Squilla mantis through the production of mechanically separated flesh and the extraction of chitosan
16:05 - 16:10	<b>OP63</b> Khushboo, Amity University, India  Value Chain Mapping- A prerequisite for value creation in Indian Surimi value chain
16:10 - 16:15	<b>OP64</b> Helena Maria Lourenço, IPMA, Portugal  Proximate composition, macro and trace elements in sea cucumber from south west Portugal coast
16:15 - 16:20	<b>OP65</b> Bjørn Tore Rotabakk, Nofima, Norway  Melanosis of snow crab (Chionoecetes opilio) as an effect of high pressure processing
16.20 - 16.25	<b>OP66</b> Marianne Svorken, Nofima , Norway Increased utilization of residuals in the Norwegian white fish industry – how to get everything ashore?
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CLOSING CEREN 16:25 - 16:30	Report WEFTA national representatives meeting
10.00	
16:30 - 16.35	Guillaume Duflos, Anses, France Report WEFTA working group Analytical Methods
16:35 - 16:40	Jasper van Houcke, HZ University of Applied Sciences, the Netherlands WEFTA 2020 announcement
16:40 - 16:45	Jákup Mørkøre
	Closing WEFTA 2010

Closing WEFTA 2019