



The Nordic Lipidforum invites to a seminar on



## High Quality Lipid Products – lipid oxidation and sensory properties

Ålesund, NORWAY  
24 – 25 October 2018



Foto: Møreforsking

Lipid oxidation is a crucial factor during production of high-quality lipids. How will your technology and process effect your product? How can you control oxidation? How to monitor and analyse oxidation compounds? Do we need better analytical indicators than Anisidine- and Peroxide value? Can we avoid formation of, or even remove, unwanted components from our oil? What about sensory properties? What can we learn from production of extra virgin olive oil?

This seminar aims to answer such questions and will cover topics useful for manufacturing of high-quality lipid products for human consumption. The aim is to provide latest knowledge on process related lipid oxidation and to review related topics. The seminar will be useful for industrial production and quality control work, as well as for research purposes.

### Program topics:

#### INTRO

- Market opportunities for high quality marine oils – next level of production quality
- Health concern and global regulation for oxidised products

#### LIPID OXIDATION

- Lipid oxidation and volatile oxidation compounds
- Identification and analytical methods for oxidation compounds

#### HIGH QUALITY INDUSTRIAL PRODUCTION

- High quality production of highly unsaturated vegetable oils and highly unsaturated marine oils and concentrates
- How to remove pollutants and oxidation compounds during production
- How to improve smell and taste

#### SENSORY PROPERTIES

- Extra virgin oils - key quality aspects and ideas for other industries
- Aroma wheel – how to describe sensory properties for omega-3 products
- Mini sensory course: taste session with extra virgin oils, other plant oils and fish oils

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#### Nordic Lipidforum

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## Program

### Wednesday 24 October - DAY ALPHA – at [Quality Waterfront Hotel](#)

10:00 – 11:30: Registration

11:30 Introduction and welcome – R&D Manager Iren Stoknes/Sec. Robert Wolff

#### Session I – Marked, health and regulation

Session chair: Astrid Nilsson

11:40 Market challenges and prospects for high quality marine omega-3 dietary supplements - Product Manager Sarah Christianslund – Epax, NOR

12:00 Health concerns and global regulations for oxidation quality of oil supplements – Director of Compliance & Scientific Outreach Gerard Bannenberg – GOED, SPA

12:30 Lunch

#### Session II – Lipid oxidation – related to manufacturing processes

Session chair: Astrid Nilsson

13:30 Lipid oxidation and volatile compounds – which compounds can be formed? – Senior Scientist John-Erik Haugen, NOFIMA, NOR

14:00 Analytical methods for oxidation compounds – are there alternative analytical methods to AV and PV? – Chief Adviser Chemistry Gjermund Vogt, Eurofins Food & Feed Testing Norway

14:30 Poster session and exhibition - Coffee break

#### Session III – High quality industrial production – how to avoid oxidation

Session chair: Iren Stoknes

15:00 Production of high-quality Vegetable oils – Prof. Anna-Maija Lampi, University of Helsinki, FIN

15:30 Production of Marine Oils and concentrates - key process steps – Scientist Revilija Mozuraityte, SINTEF Ocean, NOR

16:00 Concluding remarks – end of Day Alpha - Exhibitors / poster session

16:30 Guided bus tour. "Speed visit" at the omega-3 company Epax Norway/Pelagia and the famous mountain Aksla (Fjellstua) with a gorgeous view. Stairs down to the city centre if you like!

Ca. 18:00 Back at hotel.

19:00 Networking in the poster area or in the hotel pub...

20:00 Seated for Seminar dinner at the Quality Waterfront Hotel

### Thursday 25 October – DAY OMEGA - at [Campus Ålesund](#)

#### Session III continuous – High quality industrial production – how to avoid oxidation

Session Chair: Iren Stoknes

08:45 Welcome to NMCC – registration and information

09:00 How to remove pollutants and oxidation products by adsorbents – Bruce Patsey, VP and General Manager, Oil Dri Corp., USA

09:30 How to improve smell and taste by Deodorisation – Dr. Véronique Gibon, Science Manager - Desmet Ballestra, BEL

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## Session IV – Sensory Properties – how to describe sensory properties

Session Chair: Iren Stoknes

- 10:00 **Extra Virgin olive oils – ideas to new quality standards for marine and vegetable oils** – Prof. Erminio Monteleone, University of Florence, ITA
- 10:30 **Poster session and exhibition** - Coffee break
- 11:00 **Aroma wheel – sensory properties for omega-3 products** – Scientist Wenche Emblem Larsen, Møreforsking Ålesund, NOR
- 11:20 **Mini sensory course: taste session with extra virgin olive oils, other vegetable oils and fish oils** – Project QOmega: Scientist Wenche E. Larsen, Sensory Scientist Mats Carlehøg, Nofima, NOR, and prof. Erminio Monteleone
- 12:00 **Concluding remarks and take-home message - Session Alpha and Omega**
- 12:30 Lunch – See you all at [Nordic Lipidforum Symposium 2019 in Horsens](#), Denmark
- 13:15 **Post seminar offer:** Blue Legasea offers a guided tour at the Blue Innovation Arena and presentation of the digital catapult DigiCat. Ends at 1430 at the latest.

### PRACTICAL INFORMATION

#### Where:

Ålesund - Norway

Day Alpha at [Quality Waterfront Hotel](#).

Day Omega at [Campus Ålesund](#).

#### How to get there:

Direct flights, [international and domestic](#).

#### Visitor Information:

<https://www.visitalesund.com/>

#### Seminar language:

English

#### Poster presentations:

Participants are invited to submit poster presentations

linked to any of the areas described above. Abstracts are limited to 2500

characters. **Deadline for registration and poster abstract submission: 10 October 2018.**

#### Seminar fee includes two lunches, coffees and refreshment:

Members of Euro Fed Lipid and Lipidforum: NOK 2200 (EUR 235)

Non-members: NOK 3000 (EUR 320)

Academia, members: NOK 1650 (EUR 175)

Academia, non-members: NOK 2200 (EUR 235)

Students, members: NOK 1100 (EUR 120)

Student, non-members: NOK 1700 (EUR 185)

Seminar dinner: NOK 600 (EUR 65)

#### Payment:

Invoicing upon registration.

#### Accommodation:

We recommend [Quality Waterfront Hotel](#). Special seminar offer: Single room NOK 950,- and double room NOK 1050,-. Reservation direct to hotel.

#### Registration:

Fill in registration [here](#).

#### Sponsors:

Please contact organising committee for more information.

#### Public transportation:

Information available on website [here](#). Maps also available at the same website.

#### Organising committee:

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See you all in Ålesund!

Made possible by our Gold sponsors:



**BLUE LEGASEA**



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