SEAFOODplus invites industry representatives, scientists and policy makers to attend



The third Open SEAFOODplus Conference

at Arktika, Polar Environment Centre, Tromsø, Norway

Tuesday 30 May 2006
Plenary session
• Seafood for a better life

Wednesday 31 May 2006 Three parallel symposia

- Consumer oriented seafood product development
- Seafood and lowering the risk of chronic diseases
- New developments to manage microbial seafood safety

www.seafoodplus.org

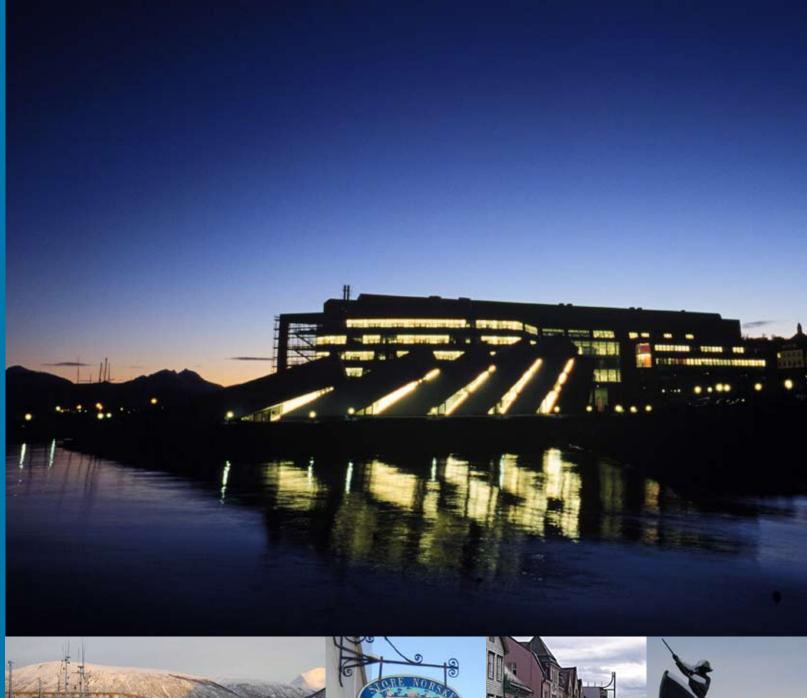
The conference will take place at the Arktika Conference Centre, Polar Environment Centre, Tromsø, Norway

For registration, payment and hotel booking please visit

www.seafoodplus.org

For further information contact: Coordinator Torger Børresen, tb@dfu.min.dk +45 45 25 25 77

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Welcome reception Monday 29 May 2006

A welcome reception will take place at 19:00 at the Polaria Museum, Strandveien, Tromsø.

The mayor of Tromsø, Hermann Kristoffersen, will welcome the SEAFOODplus participants to Tromsø.

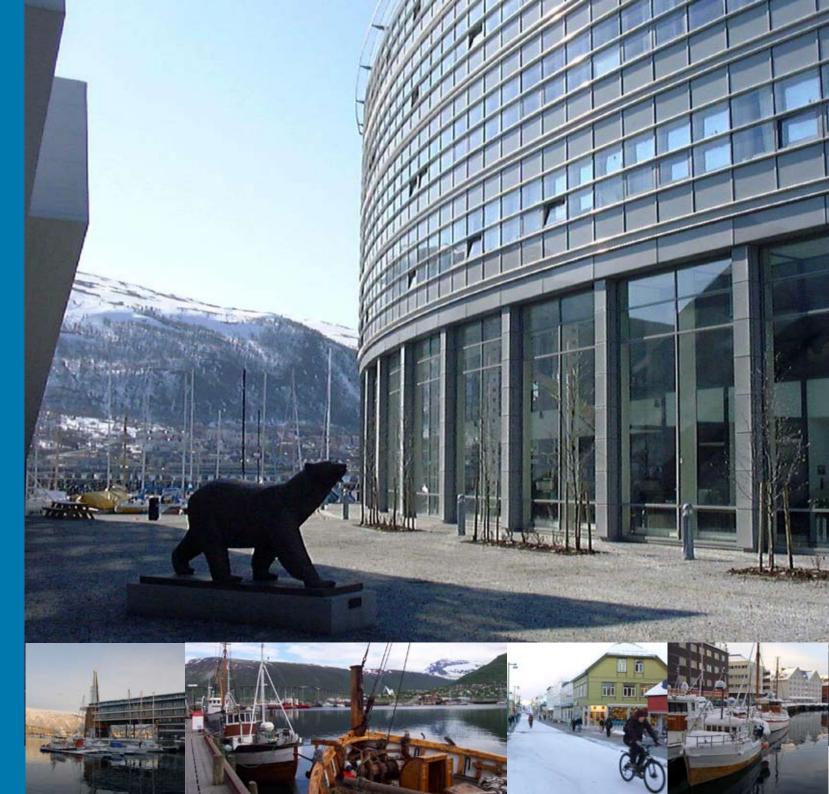
A variety of seafood delicacies are kindly offered by Rya Produkter.

Registration for the Conference and the three symposia will take place from 19:00.

"SEAFOODplus has been running for more than two years, and with more than 200 researchers working on 20 different projects, so many results are emerging that it has been a difficult task to select this year's presentations. The quality of research results has been balanced against the interest of the seafood processing industry. This is the third open conference where SEAFOODplus results are being presented. The first conference was in Copenhagen 2004, and the second in Granville, France 2005. I am very happy that Fiskeriforskning has taken on the arrangement of this third conference in Tromsø. It will emphasise the important role this institute has in SEAFOODplus."



Torger Børresen
Coordinator
SEAFOODplus
Danish Institute for
Fisheries Research
Department of
Seafood Research



Seafood for a better life

A new dimension has been added to encourage good discussions, making the plenary session even more exciting. This has been achieved by grouping the presentations such that a certain theme is being addressed from different angles.

Each group of presentations has been composed such that researchers with different opinions are presenting their results, sometimes creating conflicting views. Towards the end of each session the researchers are invited to discuss their opinions, thus creating a more lively discussion. The audience is of course welcome to take part in these discussions.

Four main themes are addressed in this way. The first considers what consumers would like to know about seafood in contrast to how industry is prepared to deliver this information e.g. in the form of traceability.

The second theme contrasts seafood product characteristics and how these may impact the quality of life of young consumers.

The third theme addresses aquaculture and the last theme considers potential loss of nutrients by industrial processing and in household preparations.

Joop Luten
Local organiser
RTD team representative
SEAFOODplus
Fiskeriforskning

Programme for the SEAFOODplus plenary session – Tuesday 30 May 2006 'Seafood for a better life'

8:00	Registration – continued	12:25	Lunch
9:00	Opening and welcome speeches Helga Pedersen, Norwegian Minister of Fisheries and Coastal Affairs, Norway Ivan C. Burkow, Managing Director, Fiskeriforskning, Norway Ciaran Mangan, Scientific Officer, DG Research, Directorate E, Biotechnology, Agriculture & Food, Belgium Torger Børresen, SEAFOODplus Coordinator, Danish Institute for Fisheries Research	14:00	Presentation of the first SEAFOODplus Associate Certificate to Angulas Aguinaga Torger Børresen, Danish Institute for Fisheries Research, Denmark and Mercedes Careche, Consejo Superior de Investigaciones Científicas (CSIC), Spain
		14:10	Using SmartTag as operational welfare indicator of farmed fish Øyvind Aas-Hansen, Fiskeriforskning, Norway
9:30	What consumers would like to know about seafood Karen Brunsø, MAPP, Denmark and Wim Verbeke, Ghent University, Belgium	14:30	New sustainable feed resources and impact of nitrogen extractives in farmed rainbow trout Anders Aksnes, Fiskeriforskning, Norway
9:50	Seafood traceability for the industry in the global trade Erling Larsen, Danish Institute for Fisheries Research, Denmark	14:50	Dietary modulation of new healthy selenium compounds in farmed African catfish Edward Schram, The Netherlands Institute for Fisheries Research (RIVO), The Netherlands
10:10	Discussion on the consumer perspective versus the industry perspective	15:10	Discussion on the feed resource perspective versus the health component perspective
10:25	Coffee break	15:25	Coffee break
10:45	Seafood as the key to improve the quality of life in young European families Inga Thorsdottir, Landspitali-University Hospital, Iceland	15:50	The impact of processing on nutritional benefits of seafood Edel Elvevoll, University of Tromsø, Norwegian College of
11:05	New knowledge about the mechanisms of seafood lipid oxidation Charlotte Jacobsen, Danish Institute for Fisheries Research, Denmark		Fishery Science, Norway
		16:10	Changes in nutrients in farmed African catfish during household preparations
11:25	Natural antioxidants: great potential for use in seafood Isabel Medina, Consejo Superior de Investigaciones Científicas (CSIC), Spain		Narcisa Bandarra, The National Research Institute on Agriculture and Fisheries Research (IPIMAR), Portugal
		16:30	Discussion on the nutrient loss during industrial processing versus household cooking
11:45	Muscle proteomics as a new tool to better understand texture defects in farmed fish Martine Morzel, Institut National de la Recherche Agronomique (INRA), France	16:45	Summary of the third SEAFOODplus Open Conference Torger Børresen, Danish Institute for Fisheries Research, Denmark
12:05	Discussion on the nutrition perspective versus the product quality perspective	17:00	Adjourn
		19:30	Conference Banquet at Rica Ishavs hotel, Tromsø Award for the best presentation will be announced



Consumer oriented seafood product development

In each of the symposia SEAFOODplus is showing how the ongoing research relates to activities outside SEAFOODplus. In addition to presentations from the project, some speakers not participating in SEAFOODplus has also been invited to contribute to the symposia.

In the symposium on consumer oriented seafood product development some core results from SEAFOODplus are being presented. In addition, other speakers are contributing along the same lines, showing how the seafood industry may benefit from new approaches to product development.

It is of major importance for manufacturers of seafood products to deliver to consumers seafood that has a good taste. However, the final touch of taste is delivered when the seafood is prepared for serving on the plate. Here the artistic skills of a chef can create new taste sensations. This will be demonstrated during the symposium session, to which the participants of the other symposia are also invited to take part in.

Further, one of the members of the External Advisory Board to SEAFOODplus has encouraged consideration of culinary principles for seafood preparation. This will be highlighted in one of the presentations where culinary based product development will be explained.

Programme for the SEAFOODplus Symposium no 1 - Wednesday 31 May 2006 'Consumer oriented seafood product development'

9:00	Opening Joop Luten, Fiskeriforskning, Norway	12.10	Lunch – with product demonstrations from Angulas Aguinaga, Spain, and local Tromsø seafood producers
9.10	Success stories of seafood product development Javier Borderias, Consejo Superior de Investigaciones Científicas (CSIC), Spain	13.30	Farmed cod – evaluation by chief cooks from European restaurants Morten Heide, Fiskeriforskning, Norway
9.40	Culinary based product development for seafood and the stage gate principle Mike Morrissey, Oregon State University, USA Member of the SEAFOODplus External Advisory Board	14.00	Consumer preferences for different cod products: Why do some consumers prefer one product to another? Kolbrun Sveinsdottir, The Icelandic Fisheries Laboratories Iceland
10.10	Coffee break	14.30	How do young consumers perceive new convenience seafood products in Europe? Svein Ottar Olsen, Fiskeriforskning, Norway
10.40	From consumer studies to seafood product design Adriaan Kole, The Netherlands Institute for Fisheries Research (RIVO), The Netherlands		
		15.00	Coffee break
11.10	The results of the SEAFOODplus food design contest To be announced by Adriaan Kole, The Netherlands Institute for Fisheries Research (RIVO) and demonstrated by the winner of the contest	15.30	Enhancement of consumer preference for frozen and thawed cod fillets by new processing methods Jens Østli, Fiskeriforskning, Norway
		16.00 16.30	Successful new seafood products enriched with taurine Ronan Gormley, Ashtown Food Research Centre (Teagasc), Ireland
11:25	Innovative seafood product development from a SEAFOODplus Associate Member's point of view Jose Luis Hurtado, Angulas Aguinaga, Spain		
			Summary of the symposium Joop Luten, Fiskeriforskning, Norway
11.40	Plenary show with the other symposia participants: Seafood a joint for ever! A top chief cook will present his view on seafood for		
		16:45	Adjourn



European consumers and prepare seafood dishes!

Kjetil Gundersen, Gastronomic Institute, Norway

Seafood and lowering the risk of chronic diseases

In each of the symposia SEAFOODplus is showing how the ongoing research relates to activities outside SEAFOODplus. In addition to presentations from the project, some speakers not participating in SEAFOODplus has also been invited to contribute to the symposia.

Consumer health and well-being is an important aspect for the research within SEAFOODplus. Prevention of disease through selection of the right diet is among the issues studied in the research pillar 'seafood and human nutrition'.

In this symposium emphasis is put on how one of the major diseases, cancer, can be prevented through dietary changes. This is also a specialty of one of the members of the External Advisory Board of SEAFOODplus, who will contribute with a presentation at the symposium.

Other topics related to seafood and human health are also taken up, making the scope of the symposium a broader approach to the benefits of seafood in the human diet. One of these constitutes the study of how fatty acids may impact the cognitive development of children.

As for the other symposia, this symposium will also join the presentation of the chief cook just before lunch.

Programme for the SEAFOODplus Symposium no 2 – Wednesday 31 May 2006 'Seafood and lowering the risk of chronic diseases'

- 9:00 Opening
 Ingeborg Brouwer, Wageningen Centre for Food Science,
 The Netherlands
- 9.10 Seafood and the interplay between the brain and the intestines
 Robert Jan Brummer, Wageningen Centre for Food

Robert Jan Brummer, Wageningen Centre for Food Science and University of Maastricht, The Netherlands

- 9.40 Fish consumption and cancer risk: results from the European Prospective Investigation into Cancer (EPIC)
 Elio Riboli and Teresa Norat, Imperial College London,
 United Kingdom
- 10.10 Coffee break
- **10.40** Seafood and guthealth
 Gertjan Schaafsma, Wageningen University,
 The Netherlands
- 11.10 Farmed fish and cancer the controversy between toxicology and epidemiology on the effect of organic pollutants

 Eiliv Lund, University of Tromsø, Norway
- 11.40 Plenary show with the other mini-symposia participants:
 Seafood a joint for ever!
 A top chief cook will present his view on seafood for
 European consumers and prepare seafood dishes!
 Kietil Gundersen, Gastronomic Institute, Norway

- 12.10 Lunch with product demonstrations from Angulas Aguinaga, Spain, and local Tromsø seafood producers
- 13.40 Seafood and prevention of colon cancer potential mechanisms of action
 Elizabeth Lund, Institute of Food Research, United Kingdom
- 14.10 Bioactive dietary compounds in seafood and colon cancer prevention
 Cindy Davis, National Cancer Institute, USA
 Member of the SEAFOODplus External Advisory Board
- 14.40 Seafood and colorectal tumours: a meta-analysis and genetic susceptibility
 Ellen Kampman, Wageningen University, The Netherlands
- 15.10 Coffee break
- 15.30 Early essential fatty acid status and later cognitive development of children
 Gerard Hornstra, Nutri-Search, The Netherlands
- **16:00 Quantitative Risk Benefit Analysis: the fish case**Nynke de Jong, National Institute for Public Health and the Environment. The Netherlands
- **16.30** Summary of the symposium
 Ingeborg Brouwer, Wageningen Centre for Food Science,
 The Netherlands
- 16:45 Adjourn



New developments to manage microbial seafood safety

In each of the symposia SEAFOODplus is showing how the ongoing research relates to activities outside SEAFOODplus. In addition to presentations from the project, some speakers not participating in SEAFOODplus has also been invited to contribute to the symposia.

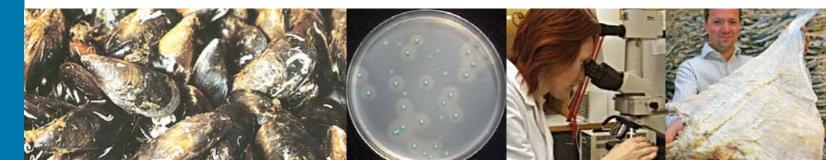
Consumers request all seafood to be safe. In SEAFOODplus the major aspect of seafood safety is the role of micro-organisms, including both viruses and bacteria. In the present symposium prevention of virus contamination in shellfish will be considered and it will be explained how risk based management may be implemented in shellfisheries. Pathogenic bacteria will also be discussed, and rapid method for detection will be presented.

Further, models to predict growth of the pathogenic bacterium Listeria monocytogenes will be presented. Histamine poisoning will be considered and it will be explained how a newly discovered bacterium has adapted to cause histamine production at very low temperatures. One of the members of the SEAFOODplus External Advisory Board will give a presentation on the perspective of seafood safety issues in USA.

As for the other symposia, this symposium will also join the presentation of the chief cook just before lunch.

Programme for Symposium no 3 – Wednesday 31 May 2006 'New developments to manage microbial seafood safety'

9:00	Opening Bill Doré, Marine Institute, Ireland	12.10	Lunch – with product demonstrations from Angulas Aguinaga, Spain and local Tromsø seafood producers
9:10	new psychrotolerant and histamine producing forganella species ette Emborg and Paw Dalgaard, Danish Institute for	13.40	Risk based management of shellfisheries Monique Pommepuy, The French Research Institute for the Exploration of the Sea (IFREMER), France
9:40	Fisheries Research, Denmark Listeria monocytogenes: Predicting the growth boundary in seafood Paw Dalgaard and Ole Mejlholm, Danish Institute for Fish-	14.10	The industry perspective of risk based management of shellfisheries Doug McLeod, Scottish Shellfish Association, United Kingdom
10:10	ries Research, Denmark offee break	14.40	Foodborne viruses: an emerging problem? Marion Koopmans, National Institute of Public Health and The Environment (RIVM), The Netherlands
10.40	Promising hurdle technologies to minimise the survival and growth of pathogens and spoilage bacteria in seafood during processing Francoise Leroi, The French Research Institute for the Exploration of the Sea (IFREMER)	15.10	Coffee break
		15.30	Rapid methods for detection of Vibrio spp. in European seafood Ron Lee, The Centre for Environment, Fisheries &
11.10	The growth and survival of Listeria in ready-to-use salt cured cod Ingebrigt Bjørkevoll, Fiskeriforskning, Norway		Aquaculture Science (CEFAS), United Kingdom
		16.00	Seafood Safety Issues: A USA Perspective Steve Otwell, University of Florida, USA Member of the SEAFOODplus External Advisory Board
11.40	Plenary show with the other mini-symposia participants: Seafood a joint for ever! A top chief cook will present his view on seafood for European consumers and prepare seafood dishes! Kjetil Gundersen, Gastronomic Institute, Norway		
		16:30	Summary of the symposium Bill Doré, Marine Institute, Ireland
		16:45	Adjourn



Brokerage event

The participants of the Conference will have the opportunity to discuss with representatives from **Innovation Relay Centres** from Nordic countries and the SEAFOODplus ITD pillar 4 coordinator the possibilities for creating new business in seafood.

Local organizer of the third Open SEAFOODplus Conference:



INDOVASJOD

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Lay-out:

Innovation Norway Norwegian Raw Fish Organisation



The Research Council of Norway



Marine Institute of Ireland



The Research Council of Norway