

September 29<sup>th</sup> 2014, 12:00 – 17:00  
 Radisson Blu Saga Hotel  
 Hagatorg, 107 Reykjavík, Iceland

## “Quantifying Environmental Impacts in the Salmonid Aquaculture Sector”



“HarmoniSed Environmental Sustainability in the European food and drink chain”

[www.senseproject.eu](http://www.senseproject.eu)



**Workshop:** A workshop on environmental assessment of aquaculture will be held in Reykjavík on September 29<sup>th</sup> 2014. The event is part of the ongoing European project “SENSE” and organized by the University of Iceland and EFLA Engineers in collaboration with EAS (European Aquaculture Society).

**Objective:** To bring together the salmonids production companies that have tested the SENSE tool and Aquaculture Producer Organisations in several countries (e.g. Iceland, Norway, Denmark, UK) to assess the usefulness and potential of the tool and its place within the monitoring of sustainability in the professional sector.

**Participation:** More than 30 participants are expected from the countries mentioned above – individual producers, association representatives and other industry partners.

If you are interested to participate in the workshop, please contact with Gudrun Olafsdottir, University of Iceland e-mail: [go@hi.is](mailto:go@hi.is) or Eva Yngvadóttir, EFLA Engineers, e-mail: [eva.yngvadottir@efla.is](mailto:eva.yngvadottir@efla.is)

### Agenda Monday 29<sup>th</sup> September 2014

**Chairs:** [Sigurður Bogason](#), Applied Supply Chain Systems Research Group, University of Iceland  
[Alistair Lane](#), European Aquaculture Society

|               |  |   |
|---------------|--|---|
| 12.00 – 13.00 | A welcome lunch buffet   |   |
| 13.00 – 13.05 | Opening  | Guðbergur Rúnarsson, <a href="#">Iceland Aquaculture Association IAA</a>                          |
| 13.05 – 13.15 | Overview of the SENSE initiative and the expected outcomes of the workshop   | Begona Perez Villareal, <a href="#">AZTI</a>  |
| 13.15 – 14.00 | An <b>overview of the environmental issues</b> that companies in the sector are facing <ul style="list-style-type: none"> <li>• "Demonstrating environmental credentials: a company perspective"</li> <li>• Discussion with participants to identify and prioritise the relevant issues</li> </ul>   | Catarina Martins, Group Manager Environment & Sustainability - <a href="#">Marine Harvest ASA</a> |
| 14.00 – 15.00 | <b>KEPIs and the SENSE tool</b> <ul style="list-style-type: none"> <li>• Selection of Key Environmental Performance Indicators for food supply chains as input data to the SENSE tool</li> <li>• Demonstration of the SENSE tool</li> </ul>  | Birgit Landquist, <a href="#">SIK</a><br>Saioa Ramos, <a href="#">AZTI</a>                        |
| 15.00 – 15.30 | Coffee break   |   |
| 15.30 – 16.00 | <b>Feedback on data and benchmarking of companies that have tested the tool</b> <ul style="list-style-type: none"> <li>• Presentation of the pooled information from initial testing</li> <li>• Feedback from the testing companies</li> </ul>   | Guðrún Ólafsdóttir, <a href="#">Applied Supply Chain Systems Research Group, UoI</a>              |
| 16.00 – 16.30 | <b>Discussion on the importance, potential and challenges to the uptake of the SENSE tool</b> <ul style="list-style-type: none"> <li>• SENSE partners' views on the uptake and use</li> <li>• Discussion on how SENSE could fit within other monitoring tools/standards</li> <li>• How to position SENSE in the <a href="#">Product Environmental Footprint initiative</a> ?</li> <li>• Feedback on uptake and use (other issues that will affect the SENSE expectations)</li> </ul> | Discussion moderated by the workshop chairs   |
| 16.30 – 16.45 | <b>Recommendations to the European Commission</b> <ul style="list-style-type: none"> <li>• Application of the SENSE tool for environmental assessment in the salmonid aquaculture food supply chain</li> </ul>   | Alistair Lane, <a href="#">EAS European Aquaculture Society</a>                                   |
| 16.45 – 17.00 | Closing comments   | Sigurður Bogason, <a href="#">Applied Supply Chain Research Group, UoI</a>                        |

### Meet the speakers

#### Invited speaker



**Catarina Martins** is the Group Manager of Environment and Sustainability at Marine Harvest, based in Bergen, Norway. Catarina has a PhD in Animal Sciences (Aquaculture) from Wageningen University, a MSc in Marine Biology from the University of Lisbon (Portugal) and supplementary education on Environment and Sustainability from Harvard University (USA). Over the last 10 years she has managed several international projects in the fields of sustainability, recirculating aquaculture systems and fish welfare. Catarina is currently involved in a number of international sustainability initiatives such as the Global Salmon Initiative and the Global Sustainability Seafood Initiative. She coordinates Marine Harvest's global implementation of the Aquaculture Stewardship Council salmon standard and is responsible for managing R&D projects in the area of environment and sustainability.

#### SENSE partners

**Begoña Pérez-Villarreal**, coordinator of the SENSE project, is the Business Director of the Food Research Division of AZTI ([www.azti.es](http://www.azti.es)). She has been involved in R&D&I activities and technology transfer to the food industry in the last 25 years, particularly in the SME area, concerning quality issues and product development. Her research interest the last years has been focused on authentication, traceability and sustainability of the food chain, has 65 publications within Food and Fish Technology and is co-author of 5 new food product patents. She is the chair of the Executive Board of SAFE Consortium ([www.safeconsortium.org](http://www.safeconsortium.org)), has been a management team member of 12 European projects and external evaluator in the Food, Nutrition & Health area for DG Research-European Commission, and member of several EU Technological Platforms: ETP-Food for Life; European Aquaculture Technology and Innovation Platform (EATIP); European Fisheries Technology Platform (EFTP).



With a MSc in Environmental Agrobiology and a degree in Biology from the University of the Basque Country, **Saioa Ramos** is working as a researcher in the Sustainability Department of the Food Research Division at AZTI-Tecnalia. Her work is focused on performing Life Cycle Assessment (LCA) of food products and processes in order to eco design new food products. Part of her research is dedicated to complete her doctoral thesis on the evaluation of the environmental impact of food production in collaboration with the University of Santiago de Compostela (USC). One of the main projects she is involved in, is the SENSE project funded by the European Union, which aims to develop a harmonized method for environmental analysis of food and drink products. *As an active member in the SENSE project the main focus is to introduce the life cycle assessment philosophy into the developing of the sense tool, together with the scientific testing of the tool.*

**Guðrún Ólafsdóttir**, is a project leader in the Applied Supply Chain System Research Group at the University of Iceland. She has a Food Chemistry background with MS degree from University of Wisconsin, and PhD in Food Science from University of Iceland. With 18 years of experience as a project leader at the Icelandic Fisheries Laboratories the main research expertise is on monitoring quality indicators of fish and fish products mainly volatile compounds contributing to loss of quality. Current research activities are on environmental and sustainability assessment of food products. As a WP leader in the SENSE project the focus is on the implementation of simplified environmental assessment and testing of the SENSE tool in food supply chains including aquaculture supply chains.



**Sigurður Bogason**, is Research Group Leader for the ASCS Research Group at the University of Iceland. He has a Food Science and Technology background, with B.Sc. from University of Iceland, a Ph.D from Oregon State University. Sigurdur has worked more than 30 years in the food and seafood industry, and has extensive experience in managing international collaborative RTD projects. In his roles as research director and executive manager for seafood marketing, fisheries and processing companies, he has successfully managed complex international projects in both fisheries and aquaculture. Current research interests focus on the supply chain systems and their sustainability, and how the food industry needs to develop new technologies for providing consumers with validated information to ensure integrity, trust and transparency in the food supply chains.

**Alistair Lane** has been the Executive Director of the European Aquaculture Society (EAS) since 2000, managing this International Non-Profit Association of more than 500 members in over 40 countries. After graduating with an MSc. in Marine Biology, he worked in the aquaculture feeds business for 10 years in UK, France and Spain, with responsibilities in distribution, marketing and general management. He has a special interest in aquaculture networks and has been involved in several European initiatives related to sustainable aquaculture development, presenting aquaculture issues to European policy makers (Parliament, Commission). He is an expert for the evaluation of European Commission RTD projects and for the Research Council of Norway. Within SENSE, EAS is helping to mobilise aquaculture companies to test and take up the SENSE tool and providing input to (social) policy issues that are inherent in the project.



**Birgit Landquist** works as senior project leader at SIK – the Swedish Institute for Food and Biotechnology. She has a long experience from international agriculture and food industry through her former employment at Nordic Sugar/Nordzucker working with sustainability topics within the area of customer's requirements, suppliers and communication. She has an exam in agricultural sciences from the Swedish University of Agricultural Sciences (1994) and her work is focused on sustainable agriculture and food production from a life cycle perspective including ecosystem services. In the SENSE project Birgit was WP leader of WP1, where the key environmental challenges for the food chains was defined and the methodology for environmental assessment to be used in the SENSE tool was established.

#### Organised by the SENSE Consortium:

