



**SIG Seaweed**  
INDUSTRIAL BIOTECH NETWORK NORWAY

# SIG Seaweed 7 Conference

## Technology development for an upscaled seaweed industry

Radisson Blu Royal Garden Hotel Trondheim 15.-16. November 2022

SINTEF Ocean is happy to invite you to the seventh SIG Seaweed Conference in Trondheim! The conference is arranged in close collaboration with the Seaweed Biorefinery Platform Norway (the Seaweed platform), coordinated by NTNU and with SINTEF, NMBU, Nofima and Møreforskning as partners. In this project we develop new knowledge about seaweed as a feedstock for a long range of products and how the processing can contribute to high quality and sustainable utilisation of the resource. The Seaweed platform collaborates with Norwegian companies in the seaweed sector and this conference is a main arena to meet, present results from the R&D and discuss further what this growing industry needs.

The conference will also present other ongoing Norwegian R&D-projects and leading companies within farming, product development and technology progress will talk about their businesses and services and how they work with technology development for upscaling. This year will also be great opportunities to meet representatives from the seaweed industry and research in the Netherlands!

We look forward to seeing you in Trondheim 15.-16. November and hope that you will use this opportunity to learn about the latest seaweed news and network with seaweed enthusiasts from the industry, research, education, governmental and funding bodies with knowledge and competence along the whole seaweed value chain – from farming to end products!

**Date:** 15. November (10:00) – 16. November (13:00)  
**Venue:** Radisson Blu Royal Garden Hotel, Trondheim  
**Language:** English  
**Price:** Regular: 2500,- NOK  
Student: 500,- NOK  
Dinner (optional): 1000,- NOK  
Speaker (appointed, dinner included): 0,- NOK  
All prices exclusive VAT

**Registration:** [Register here](#)

**Deadline:** 1. November 2022

**Hotel, special price:** [Radisson Blu Royal Garden Hotel](#)  
First come - first served

**Cancellation cost:** 250,- NOK. No refund after 1. November.

**On behalf of SIG Seaweed and the Norwegian Seaweed Biorefinery Platform**

Jorunn Skjermo, Silje Forbord, Tom Ståle Nordtvedt, Øystein Arlov (SINTEF) and Finn Achmann (NTNU)



**Program:**

**Day 1, 15. November**

**10:00 11:15 Registration and coffee**

**11:15 12:00 Lunch**

12:00 12:10 Welcome and SIG Seaweed-introduction

12:10 12:40 Seaweed and climate impacts – a systems perspective and comparison with other foods

12:40 12:55 RI SEAWEED – Norwegian Test Center for Seaweed Cultivation and Utilization Technologies

12:55 13:10 Towards selective breeding of sugar kelp

13:10 13:25 The Seaweed Biorefinery Platform in Norway (SBP-N)

**13:25 14:00 Coffee break**

14:00 14:15 Enzymatic fucoidan extraction from brown seaweeds

14:15 14:30 The market is demanding kelp – dozens of products under development

14:30 14:45 Seaweed based bioplastic

14:45 15:00 Monitoring elements of potential environmental concern along the Norwegian coast using sugar kelp

**15:00 15:45 Wine break**

15:45 16:05 MacroSystems: challenges and opportunities of offshore Giant kelp Cultivation in California (*online*)

16:05 16:20 A respectful continuation of the Norwegian alginates heritage

16:20 16:35 Production and market update from Seaweed Solutions

16:35 16:50 Status Ocean Forest – where are we and in which direction are we moving?

**16:50 16:55 End of Day 1**

**19:00 Dinner at Radisson Blu Royal Garden Hotel**

**Day 2, 16. November**

09:00 09:20 North Sea Farmers

09:20 09:35 An overview of the Norwegian Seaweed Industry and how the Norwegian Seaweed Association works

09:35 09:50 Nutritious and safe kelp ingredients to the food industry – insights from the SusKelpFood project

09:50 10:05 Challenges of converting seaweed to paint and dresses

**10:05 10:40 Coffee break**

10:40 11:00 Foods of Norway – seaweed as a feed resource

11:00 11:15 Dualistic approach - characterizing the fucoidan modifying enzymes while solving the structure of fucoidans

11:15 11:35 Sealoop: scaling the seaweed cultivation cycle by next generation offshore rigs, mechanisation, remote control and ERP tools

11:35 11:50 Macroalgae - How does the Research Council of Norway prioritize the funds?

**11:50 12:00 End of Day 2**

**12:00 13:00 Lunch**

**Chair Day 1: Tom Ståle Nordtvedt**

Jorunn Skjeremo, SINTEF Ocean

Jean-Baptiste Thomas, KTH Royal Institute of Technology, Sweden

Aleksander Handå, SINTEF Ocean

Åshild Ergon, NMBU

Finn Aachmann, NTNU

Nanna Rhein-Knudsen, NMBU

Dagbjørn Skipnes, Nofima

Øystein Arlov, SINTEF Industry

Stefania Piarulli, SINTEF Ocean

Eliza Harrison, Ocean Rainforest, USA

Katharina Nøkling-Eide, SINTEF Industry

Maren Sæther, Seaweed Solution

Harald Sveier, Ocean Forest

**Chair Day 2: Silje Forbord**

tba

Marit Gjerstad, Norges Vel

Pierrick Stevant, Møreforskning

Jaap Van Hal, TNO, The Netherlands

Margareth Øverland, NMBU

Maren Oftebro, NTNU

Job Schipper, SWD Connectors, The Netherlands

tba, Research Council of Norway



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### About SIG SEAWEED

The Special Interest Group SIG Seaweed is a Norwegian cross-sectorial and multidisciplinary meeting place gathering businesses that cultivates and uses macroalgae as raw material for various products, in addition to providers of technology, equipment and R&D in these areas. The SIG Seaweed was established the 19<sup>th</sup> September 2014 by IBNN - Industrial Biotech Network Norway, Innovation Norway and SINTEF Fisheries & Aquaculture, and is coordinated by Jorunn Skjermo ([jorunn.skjermo@sintef.no](mailto:jorunn.skjermo@sintef.no)) at SINTEF Ocean.



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