



BSR LNG COMPETENCE CENTER DEVELOPMENT WORKSHOP STUDY VISIT ÅLESUND & TRONDHEIM, NORWAY, 21-23 MAY 2018

Co-organised by Shipping & Offshore Network (Go LNG project partner) and Sintef Ocean

MONDAY 21 MAY

Ålesund, Radisson BLU Hotel

Check-in at Radisson BLU Hotel, Sorenskriver Bulls gate 7, tel +47 70 16 00 00

20.00 **Opening Dinner at XL Diner**, Skaregata 1B, tel +47 70 12 42 53

TUESDAY 22 MAY

Ålesund, Hurtigruten

08.30 Transfer by bus (incl. luggage) to NMCC, Borgundveien 340

09.00 **Visit to the Norwegian Maritime Competence Center in Ålesund**

The NMCC hosts among others Rolls-Royce Maritime Technological Training Centre and the Offshore Simulation Centre. <http://www.nmcc.com>

15.00 **Departure to Trondheim with Coastal Steamer «M/S Vesterålen»**

Lecture on board to be announced later. About the vessel:

WEDNESDAY 23 MAY

SINTEF Ocean, Trondheim

06.00 Arrival with Hurtigruten to Trondheim and bus transfer to Tyholt Campus

08.45 Arrival to NTNU and SINTEF Ocean, Otto Niensens veg 10

The Campus hosts among others NTNU's Department for Marine Technology and a part of the SINTEF Ocean Research Institute

09.00-12.30 **ENERGY EFFICIENT AND ENVIRONMENT-FRIENDLY SHIPPING**

Presentation of current research at Sintef Ocean

Welcome

Tom O. Kleppetø, General Manager, Shipping & Offshore Network

SINTEF Ocean – History, Mission and Activities SINTEF / NTNU

Anders Valland, Research Manager, SINTEF Ocean, sintef.no

Ocean Space Centre – vision soon to become reality

Speaker TBA

SFI Smart Maritime – Research Centre on Energy Efficiency and Reduced Emissions Web

Agathe Rialland, SFI's Administrative Coordinator and Researcher Scientist, SINTEF Ocean

Potential for GHG reduction from shipping

Elizabeth Lindstad, Senior Research Scientist, SINTEF Ocean

30 years of experience with LNG technology at SINTEF Ocean

- Small-scale LNG distribution
- State of the art gas engine technology for marine application

Per Magne Einang, Senior Research Scientist, SINTEF Ocean

Methane slip from gas fuelled engines,

Dag Stenersen, Senior Engineer, SINTEF Ocean

Hybrid Propulsion

Torstein Bø, Research Scientist, SINTEF Ocean

12.30–13:30 Lunch at Tyholttårnet

13.30–14.30 **Visit to the SINTEF Ocean and NTNU Laboratories**

- *Ocean Basin*
- *Towing Tank*
- *Energy and Machinery Lab*
- *Hybrid Power Lab*

15.00 End of visit, transport to the airport

COSTS

Opening dinner: At your own cost

Radisson BLU: Single room NOK 1,065, double room NOK 1,300 (prices include breakfast)

Coastal Steamer: Single cabin NOK 1,663, double cabin outside NOK 1,336, inside 1,188
Prices are per person. Dinner on board: At your own cost.

CONTACT INFORMATION & AIRPORTS

Organiser: Tom O. Kleppestø, tom@shippingoffshorenetwork.no tel +47 481 44 000

Host Ålesund: TBA

Host Trondheim: Agathe Rialland, SINTEF Ocean, Agathe.Rialland@sintef.no tel +47 997 85 073

Airports: Ålesund Airport, Vigra (AES) and Trondheim Airport, Værnes (TRD)

