

**70 years anniversary seminar and celebration**



for

**Professor Odd M. Faltinsen and Professor Torgeir Moan**



**Program**

**May 19-20, 2014**

**Address:** Marine Technology Centre, Otto Niensens vei 10, Tyholt, Trondheim

**Chair:** Harald Ellingsen, Head, Department of Marine Technology

**Co-chair:** Asgeir J. Sørensen, Director, AMOS

The 70 years anniversary seminar and celebration will be a tribute to Moan's and Faltinsen's contribution to the field of marine technology and in particular to the disciplines marine hydrodynamics and marine structures. Both professors have a remarkable career with world class scientific merits. They have educated more than 100 PhDs and many hundreds of MSc, published more than 900 scientific papers and many text books, and given numerous key notes and plenary lectures. Through more than 40 years of activity and relevance in their research and education, the industrial impact on maritime, oil and gas, fisheries and aquaculture and offshore renewable energy is tremendous. The families and all graduated PhDs by Faltinsen and Moan are invited. In addition, colleagues, partners and friends from universities, industry and governmental agencies are invited. Besides a pleasant social gathering with a celebration banquet Monday afternoon, NTNU will use this opportunity to address scientific highlights and future prospects delivered by these two marine technology lighthouses.

**Sponsors:**



Norwegian University of Science and Technology

- Department of Marine Technology
- Centre for Ships and Ocean Structures
- Centre for Autonomous Marine Operations and Systems

**MARINTEK**

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## Monday 19 May

0900 Registration and coffee

Chair: Harald Ellingsen, Head, Department of Marine Technology, NTNU

1000 Welcome note, Torbjørn Digernes, Former Rector, NTNU  
Welcome note, Ingvald Strømmen, Dean, Faculty of Engineering Science and Technology, NTNU

1030 Key Note: Past and future, Odd M. Faltinsen, NTNU

1100 Key Note: Looking ahead – in the rearview mirror, Torgeir Moan, NTNU

1130 Lunch at the cafeteria of the Marine Technology Centre, Tyholt

1230 Invited speakers from Moan's PhDs (5 x 15 minutes)

- A career on the boundary between sea and air, Sverre Haver, Statoil/NTNU
- A robust education, Jonas Odland, Acona/University of Stavanger
- From ships to offshore platforms and renewable energy, Carlos Guedes Soares, Centre for Marine Technology and Engineering (CENTEC), Instituto Superior Técnico, Universidade de Lisboa
- Ekofisk, South Stream & Ichthys; plus a few words on professional societies, Mark Marley, DNV GL, Perth
- Arnt's story, Arnt Olufsen, Statoil

1345 Coffee and tea break

1415 Invited speakers from Faltinsen's PhDs (5 x 15 minutes)

- Challenges in the professional career, Svein Skjördal, AMT
- Industry value creation through cooperation with academia, Vidar Aanesland, NOV
- High speed craft technology - from theory to 58+ knots in service, Nere G. Skomedal, Vice President, Engineering, Umoe Mandal
- A long journey in offshore and marine technology, Arne E. Løken, DNV GL
- Applied marine hydrodynamics – examples from my career, Geir Løland, Statoil

1530 Coffee break and tea break

- 1550 Key Note: Ship and ocean structures: future trends – the role of universities,  
Preben Terndrup Pedersen, NTNU (Dr Honoris Causa)/DTU (Emeritus Professor)
- 1620 Key Note: Marine hydrodynamics - a memoir, J. Nicholas Newman,  
NTNU (Dr Honoris Causa)/MIT (Emeritus Professor)/WAMIT Inc.
- 1650 Wrap up day 1
- 1900-2230 Dinner at Rica Nidelven Hotel  
Address: Havnegata 1-3, 7010 Trondheim

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**Tuesday 20 May**

Chair: Asgeir J. Sørensen

- 0900      Invited speakers (4 x 20 minutes)
- A broader view - the future of shipping, Henrik O. Madsen, CEO, DNV GL
  - Ocean space knowledge, Unni Steinsmo, CEO, SINTEF Group
  - Progress in the direct application of hydrodynamic interaction computations to real-time ship simulators, J. A. Pinkster, Delft U. of Technology (Emeritus Professor)/Consultant, PMH BV
  - Risk analysis of marine operations involving dynamic positioning, Haibo Chen, Managing Director Asia, Lloyd's Register Consulting
- 1020      Coffee and tea break
- 1040      Invited speakers (4 x 20 minutes)
- Creating tomorrow's solutions, Tore Ulstein, Chairman & Deputy CEO, Ulstein Group
  - From offshore oil and gas structures to marine renewable energy, Finn Gunnar Nielsen, Statoil/University of Bergen
  - Class of future, going beyond, Christina Wang, Director, American Bureau of Shipping (ABS)
  - Early years of the Marine Technology Centre, Dag Kavlie, Former Rector, NTH
- 1200      Lunch at the cafeteria of the Marine Technology Centre, Tyholt
- 1300      Invited speakers from Moan's PhDs (4 x 15 minutes)
- Steel or composite? Yes please, both, Jon Taby, General Manager, FiReCo AS
  - Avoiding major accidents in the offshore industry, Stein Haugen, NTNU
  - My journey in RD&D: four continents, three disciplines, multiple roles, one company, Øyvind Hellan, MARINTEK
  - Managing knowledge workers in engineering organizations - the importance of specialist engineers to meet the challenges at NCS, Bård Wathne Tveiten, Aker Solutions
- 1400      Coffee and tea break

- 1420      Invited speakers from Faltinsen's PhDs (4 x 15 minutes)
- From slamming to business development, Jan Kvålsvold, DNV GL
  - Spar platforms in various deepwater applications, Herbjørn Alf Haslum, Statoil
  - Waves, waves and more waves, Marit Ronæss, Petroleum Geo-Services
  - From oil exploration to fish farming – synergies in research and collaboration across the blue sectors, Arne Fredheim, SINTEF Fisheries and Aquaculture
- 1520      New Initiatives at NTNU and MARINTEK
- New initiatives at the Department of Marine Technology, Harald Ellingsen, Head, Department of Marine Technology, NTNU
  - Towards autonomy in marine operations, Asgeir J. Sørensen, Director, AMOS, NTNU
  - Meeting the future – Ocean Space Centre, Oddvar Eide, President, MARINTEK
- 1550      Wrap up and conclusions by Moan and Faltinsen
- 1600      End of seminar