**Dr. Ove T. Gudmestad**

- Technical Adviser, Statoil, Stavanger, Norway
- Adjunct Professor of Arctic Marine Technology
  Norwegian University of Science and Technology
- Adjunct Professor of Marine Technology
  University of Stavanger

Dr. Ove T. Gudmestad has experience from engineering, research and projects in Statoil since 1975. The offshore-related experience includes marine and arctic technology, pipeline design, offshore structures, and development of concepts. He has management experience from several research projects, concept development studies and engineering tasks. At present, he is a special Adviser in Statoil on Marine Technology. Dr. Gudmestad has published a number of papers and has filed several of patent applications.

He holds a M.Sc. degree in Applied Mathematics from the University of Tromsø in 1973 and a Ph.D. in Hydrodynamics from the University of Bergen in 1985. He spent two years at Massachusetts Institute of Technology during his studies.

As from 1995 he also holds a position as Adjunct Professor in Marine Technology at University of Stavanger. In 2005 he was appointed Adjunct Professor of Arctic Marine Engineering at Norwegian University of Technology and Science, NTNU, Trondheim. The Gubkin Russian State University of Oil and Gas in Moscow did in 2002 award Dr. Gudmestad an Honorary Doctor degree. Dr. Gudmestad is a Fellow of the Royal Institution of Naval Architect in London.

**Dr. Sveinung Løset**

- Professor in Arctic Marine Engineering
  Norwegian University of Science and Technology
- Adjunct Professor
  University Centre in Svalbard (UNIS)
- Vice-Dean, Faculty of Engineering Science and Technology
  Norwegian University of Science and Technology

Dr. Løset holds a Dr. degree in marine technology, The Norwegian Institute of Technology, Trondheim. He holds also a master in physics at the same university. Dr. Løset has knowledge and direct experience of ice engineering from almost 20 years (1986–05) of field/laboratory investigations and numerical modelling. His key qualification is in ice physics and mechanics with emphasis on ice actions on offshore and coastal structures. A key area is sea ice dynamics and rheology comprising field/laboratory investigations and computations. These items involve erudition on ice mechanics, ice physics and dynamics, structural engineering, statistical analysis as well as application of remote sensing techniques. Applied physics, with emphasis on dynamics, thermodynamics and numerical modelling, has been the key discipline in most of his practice.

Dr. Løset has been working with statistics on sea ice and icebergs in the Barents Sea. This work provides a data base as input for design of offshore installations in the Barents Sea including oil/gas terminals. Dr. Løset has published 12 books/compendia and more than 100 papers in international proceedings or journals. He has filed several patent applications and accepted patents.

The Gubkin Russian Institute of Oil and Gas in Moscow did in 2002 award Dr. Løset for publication of a book. In 1994 he acted as Chairman of 12th International IAHR Ice Symposium, Trondheim. He did also act as Chairman of the 17th International POAC Conference, Trondheim, 2003.

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**Offshore Hydrocarbon Field Development in Cold Waters with Emphasis on Design Issues and Technical Aspects**

(Accredited 21 PDUs by the P. E. Board)

**Dr. Ove T. Gudmestad**

Dept of Arctic Marine Engineering
Norwegian University of Science and Technology

&

**Dr. Sveinung Løset**

Dept of Arctic Marine Engineering
Norwegian University of Science and Technology

**Date:** 08 ~ 10 December 2005  
**Time:** 9.00am – 5.00pm  
**Venue:** National University of Singapore  

**Jointly Organized by:**

- Professional Activities Centre, Faculty of Engineering  
- Centre for Offshore Research & Engineering,  
  Faculty of Engineering  
- Keppel Offshore & Marine Ltd
The purpose of the course is to give the student an introduction to offshore field development in the Arctic Offshore with emphasis on design issues and technical aspects.

Accredited 21 PDUs by the Professional Engineers Board Singapore

About 25% of the undiscovered hydrocarbon resources is likely to be located in the Arctic. In this light we have composed a relevant course for students who intend to have contact with the offshore industry. The course addresses oil and gas resources and reserves, petroleum engineering aspects and offshore development management. Offshore facilities are discussed on the basis of characteristics of the physical environment in the Arctic.

- Perspective Areas of Hydrocarbon Resources in the Arctic Hydrocarbon Products
- Characteristics of the Arctic Physical Environment
- Offshore Facilities
- The Structure and Formation of Ice
- The Structure and Formation of Ice (cont’)
- Physics of Sea Ice
- Offshore Development Management
- Mechanics of Ice
- Design Codes for the Arctic
- Ice Loads; Influence of Structure and Type
- Transport Facilities
- Ice Loads; Influence of Structure and Type
- Wave Loads on Offshore Structures, Morison’s Formula
- Bearing Capacity of Ice
- Modelling of Ice Drift
- Combination of Loads
- Economical Considerations
REGISTRATION FORM
Offshore Hydrocarbon Field Development in Cold Waters with Emphasis on Design Issues and Technical Aspects
08 ~ 10 December 2005

Course Fee: SGD1,100.00 + SGD55.00 (5% GST)
Name of Participant: Dr/Mr/Ms/Ms:
(Attach your namecard, if any)

Designation:

Name of Organisation:

Address:

Contact Person:

Email: ____________________________ NUS Alumni No (if any):

Tel No (O): ____________________________ Fax No:

** Dietary Preference: Chinese/Halal/Vegetarian

Payment Mode

Cheque No/Bank Draft No.: ____________________________

VISA / MSTR : ____________________________

Signature : ____________________________

Expiry Date : ____________________________

Amount (S$) : ____________________________

Closing Date: Please send in your registration form together with your payment by 28th November 2005, Monday

Authorised Signature / Company Stamp

REGISTRATION – 2 Easy Ways to Register!!
MAIL or FAX to:

Professional Activities Centre
Faculty of Engineering
National University of Singapore
9 Engineering Drive 1
Blk EA #05-34
Singapore 117576

Enquires: Please contact Ms Lilian Choong for more information at:
Tel: (65) 6874 5113/ (65) 6778 2314 or
E-mail: engcll@nus.edu.sg

Fee: Local Participants: SGD1,100.00 + SGD55.00 (5%GST)
Foreign Participants: SGD1,100.00 (GST Exempted)

Payment: Payment is required prior to the course. Crossed cheques should be made payable to “National University of Singapore” and mailed together with the registration form to the mentioned address.

Discount: Each participant/company is eligible for one of the following discounts:

Employees of the NUS Technology Associates registered with INTRO (Industry and Technology Relations Office);
NUS Alumni members;
Organizations / Companies that are sending three or more participants.

Refunds and Cancellations:

A 50% refund will be made for withdrawals (received in writing) ten working days before the commencement of the course. No refunds will be made thereafter. However, a replacement will be accepted upon prior arrangement at no extra cost. Please inform us of the changes, if any, by fax. The Professional Activities Centre reserves the right to cancel the course and fully refund the participants, should unforeseen circumstances warrant it. Every effort will be made to inform participants of any changes.

Closing Date: 28th November 2005, Monday

Website: http://www.eng.nus.edu.sg/PACentre/