



Joint ESI-ISEAS SEMINAR

HOW DO WE DEAL WITH THE RISKS OF CUTTING EDGE CLEAN TECH?

Date: Friday, 26 March 2010
Time: 10.30 am — 12.00 noon
Venue: Seminar Room II, ISEAS

About the Speaker

Dr Jens P Tronskar
Vice President &
Chief Technology Officer
DNV Clean Technology Centre
Singapore



Dr Jens P Tronskar M.Sc., PhD, CEng, SenMWeldI, IWE, received his M.Sc. degree in Materials' Physics and Physical Metallurgy from the Technical University of Norway (NTH) in 1980, and was awarded his Doctor of Philosophy (PhD) degree in Probabilistic Fracture Mechanics applied to Floating Production Storage and Offloading vessels and Ships by the National University (NUS) of Singapore in 2002. He has attended a post doctorate program at University of California Berkeley, Center for Executive Education, September 2008 – April 2009. This program focused on renewable energy, new energy sources, asset management and carbon capture and storage.

Dr Tronskar is currently Vice President & Chief Technology Officer of DNV's Clean Technology Centre in Singapore. Prior to this he was Vice President and Director of Business Development and Technology for DNV Energy in Asia and Middle East, based in Singapore. Concurrently he also headed the Materials Technology and Structural Integrity Laboratory and Operations Excellence unit in DNV Energy Singapore.

He has 30 years of experience of materials technology research, asset integrity management consulting, technology qualification of new systems and components for oil and gas exploration as well as for aerospace applications, failure investigations and deterministic/probabilistic fracture mechanics analyses risk and reliability analysis of structural and piping/process components and pipelines for the offshore and onshore oil & gas, refineries and petrochemical industry.

Energy Studies Programme



He was based in Singapore from 1994 until 2004 and was involved in consulting, engineering critical assessment and testing activities for many offshore projects in South East Asia, China, Australia and Middle East. In 2004 was appointed Director of Asset Integrity Management for Asia and he also moved to Shanghai, China to develop DNV's Risk and Asset Integrity Management activities in China. The last three years he has been based in Singapore covering business development for Asia and Middle East and also being involved with DNV Energy's business development in Australia.

Dr Tronskar has presented papers at international conferences in Europe, America, South America, Australia and Asia. He has published more than 50 journal articles and peer reviewed conference papers.

About the Seminar

The threat of climate change is one of the main factors in defining our energy future. This has become clear at a time when the fast increasing need for adequate and secure energy supply is pushing the limits of acceptable growth rates in the energy demand, even without considering the need for change dictated by the environmental concerns and the threat of climate change.

The climate change threat is the overwhelming issue in terms of driving forward to cleaner – or low CO₂ rather than no CO₂ - energy sources. It seems inevitable that, in addition to emphasis on energy efficiency and renewable energy at least as a bridging solution for several decades, we will have to apply solutions for capture and storage of CO₂ emitted from coal and gas power stations, and other industrial activities. Without these technological solutions the climate change threat will become unmanageable. There are simply no other adequate alternatives available fast enough and on a sufficient scale.

This presentation focuses on how we can assess the risks of new technology for carbon capture and storage (CCS). It is shown how a structured approach to Technology Qualification has been applied successfully for a number of projects to create confidence and trust with the various stakeholders i.e. governments, public, investors and the industry.

You are cordially invited to the Seminar.