

# Speaking of Engineering...

## Have you ever wondered...



### what the challenges are for oil and gas development in Arctic environments?

**Associate Professor Shawn Kenny, PhD, P.Eng.  
Wood Group Chair in Arctic and Cold Region  
Engineering**

The development of arctic hydrocarbon resources, which may account for 20 per cent of the world's undiscovered resource potential, presents a viable opportunity to meet global energy demands and requirements for manufactured products. The exploration and development of oil and gas reservoirs in these environments present technical and logistical engineering challenges for surface infrastructure and subsea facilities. These challenges may impact project cost, logistics, execution and sanction. The Arctic, however, is not a homogeneous region and must be assessed within a regional context.

Join Dr. Shawn Kenny, who is the Wood Group Chair in Arctic and Cold Region Engineering and an associate professor in Memorial's Faculty of Engineering and Applied Science, as he examines key issues for the exploration and development of hydrocarbon resources in Arctic environments. A discussion on historical and current activities will be presented with a look towards potential future needs and issues.

In 1988, Dr. Kenny graduated with a bachelor's degree in civil engineering, and in 1992 completed a master of engineering degree in the field of ice mechanics from Memorial University. Since 1998, his professional career has focused on offshore pipeline in Arctic and ice environments with experience in academia, applied research and development and engineering consulting. Dr. Kenny has been involved with engineering studies for pipeline projects located in Alaska, Beaufort Sea, Caspian Sea, Grand Banks, Gulf of Mexico, Labrador Sea, Mackenzie Delta, Scotian Shelf and Sakhalin Island.

**Speaking of Engineering** is hosted by the Faculty of Engineering and Applied Science at Memorial University and the Professional Engineers and Geoscientists of Newfoundland and Labrador.

**Wednesday, Dec. 16, 2009, 7:30 p.m.**  
**Memorial University, St. John's Campus**  
**S.J. Carew Building; Room EN2006**

Reception to follow  
Admission is free. All are welcome.  
Parking is available in Lot 16

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