

The Oil & Gas Initiative



University of British Columbia
Student Chapter

Seminar & Refreshments

Dr. Ian Frigaard

Why do Wells Leak and Who Cares?

Tuesday, January 23rd 6 pm

Chemical & Biological Engineering
Rm 102

Oil and gas wells have used cement for zonal isolation and mechanical support for at least 80 years. A surprising number of wells leak, to varying degrees, which suggest that the cementing job is not effectively executed. Is leakage important, and if so why? What are some of the root causes of leaking wells and why is it that the industry has not "solved" this problem. We'll review some of the technical reasons behind these questions and finally present some hypotheses about the non-technical causes and how the industry should evolve in order to fix these problems.

All are Welcome
Refreshment (pizza) provided!

Please RSVP at:

<http://ogi-frigaard.rsvpify.com>



Dr. Ian Frigaard is a professor in the UBC Department of Mechanical Engineering and in the UBC Department of Mathematics.

Dr. Frigaard's research falls into two main categories: Non-Newtonian fluid mechanics and Industrial mathematical modelling. His mathematical modeling work is industry-driven and his interest has been in processes combining thermal and fluid dynamic effects. Examples include oilfield cementing, spray deposition/forming, injection molding, continuous casting, Czochalski crystal growth, image processing, wellbore hydraulics, slurry transport, well control.



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