



**You are cordially invited to attend the following seminar sponsored by
the Department of Mechanical Engineering:**

**Tuesday, September 18, 2007
101 Recitation Hall
1:00 – 2:00 P.M.**

***Dr. Brindesh Dhruva & Dr. Michael H. Du
Schlumberger Reservoir Completions***

“HEAVY OIL – NOT TO BE TAKEN LIGHTLY”

Abstract:

Although oil supplies presently are adequate to satisfy the growing demand for energy, a number of recent predictions indicate that we are on the verge of a persistent global oil-supply crisis. During the next decade world-wide production of conventional crude oil is projected to peak followed by an irreversible decline, while the world-wide demand for energy is increasing rapidly. The economical production of unconventional hydrocarbons, such as heavy oil, will then be critical to meet the growing global energy demand.

Heavy oils, although abundant in nature, are very difficult to produce due to their high viscosities, phase behavior and inability to flow easily within a reservoir. The economical production of heavy oil presents itself with great technology challenges to the industry. During this presentation, we will review general areas of ongoing technology development in the forefront of the global supply-demand backdrop, and discuss in detail recent scientific and engineering progress in the specific process of Steam-Assisted-Gravity-Drainage for heavy oil production.