



Séminaire conjoint avec MITACS / Joint Seminar with MITACS

Conférencier / Speaker

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Titre / Title

The Boreal Forest Region of Canada: An Operational
Research Perspective

Résumé / Abstract

The Boreal forest region of Canada stretches in a broad band from the Yukon to Newfoundland, totals more than 3 million km² in size, and covers almost 30 % of the land area of Canada. It is a rich source of natural resources including timber, minerals, oil and gas, and water. It contains many Aboriginal communities that depend on forests to support their traditional lifestyles and towns and cities populated by those that work in the natural resource and allied industries. It is also home to many animal species including the woodland caribou which is endangered. The Boreal forest is estimated to contain roughly 185 billion tonnes of carbon - **and it burns!**

It is therefore not surprising that Boreal forest management poses a rich array of challenges to operational researchers that wish to bring their expertise to bear on complex problems that have important social, economic, and environmental implications. I will discuss fire management in the boreal forest from an operational research perspective and show how mathematical programming models, queueing theory, simulation models, and statistical methods have contributed to the development of fire management decision support systems. I will also outline some of the many important open problems that I believe call for operational research expertise.

**VENDREDI 20 MARS
2009 /**

**FRIDAY MARCH 20,
2009**

10H30

**Salle / Room
5441**

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