

# SAFT

SELSKAB FOR ARKTISK FORSKNING OG TEKNOLOGI

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## Performance and protection of roads and airfields built on thaw-sensitive permafrost in the Canadian Arctic

Torsdag 24. april 2008, kl. 17

Dansk Polar Center, Strandgade 102, 1401 København K

With Prof. Guy Doré, Laval University

An important increase in mean annual temperatures has occurred in Northern Canada over the last few decades. As a result, permafrost is degrading and is threatening the integrity of roads, railways and airfields essential for the social and economic development of several remote communities. This presentation will outline the context of the transportation system in Northern Canada and will describe the challenge managing this vital infrastructure. It will also present the results of several research projects conducted on transportation infrastructure built on thaw sensitive permafrost. These studies have helped identifying the consequence of global warming on transportation embankments, to review documented mitigation techniques that can be used for thermal stabilization of permafrost underlying transportation embankments, to carry out a performance assessment of runways and roads and to identify and experiment techniques to mitigate permafrost degradation.



**Alle er velkomne!**

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Der serveres en let anretning efter foredraget for medlemmer af SAFT

Tilmelding til spising er nødvendig til senest onsdag d. 23 april kl 12.

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Oprettelse af et medlemskab af SAFT kan ske på  
<http://sat.dk/medlemmer> eller ved henvendelse til  
Susanne Hanson på sha@space.dtu.dk eller 3254 5736