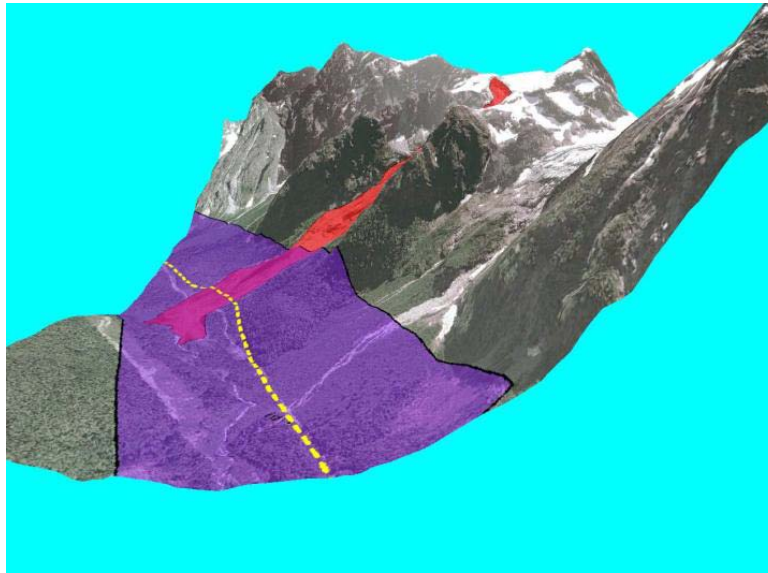


Pipeline routing in landslide prone terrain



**Marten Geertsema, Research Geomorphologist
BC Ministry of Forests, Lands, and Natural Resource Operations**

Abstract: BC is strategically located as a conduit between oil and gas fields to its north and east and markets in the USA and Asia. One of the greatest challenges to route planning is locating and planning a safe route in landslide prone terrain – and BC has much of it. The problem with landslides is that they are highly variable. They can occur in a variety of materials, move at a wide range of velocities, move in different ways and have multiple causes and triggers. Even the simplest landslides are difficult to predict. It is important for risk modelling to know when and where a landslide might happen, how big it might be, how far it might travel, and how deep it might scour.

I offer practical suggestions to reducing landslide risk to pipelines using a three-pronged approach involving recognizing, characterizing and mitigating the landslide hazard.

Bio: Marten Geertsema has been a geomorphologist for almost two decades and has been a part of the BC Forest Service since 1985. He has a PhD in physical geography specializing in geomorphic hazards. Marten's main area of interest is landslides and he studies past, present and future hazard regimes. His recent work includes analyses of landslide travel distance, and the role of permafrost degradation in landslide initiation.



When: Tuesday, June 21, 2011. 1:30 pm to 2:30 pm

Location: Prince George: Heritage Room, Northern Interior Regional Office

Conference call: 1-877-353-9184 Conference ID: 7190434

Common meeting rooms have been reserved in the following locations:

Kamloops: Juniper room, Southern Interior Regional Office

Prince George: Heritage Room, Northern Interior Regional Office, 1011 4th Ave.

Smithers: Driftwood Room, Skeena-Stikine Forest District Office

Nanaimo: Birch Room at 2100 Labieux Rd.

Williams Lake: Williams Lake Room, Williams Lake Forestry Centre

Victoria: Room 502, 727 Fisgard Street