

**Thursday, November 22, 2007**

**Theatre 3 – Adaptive Environmental Remediation**

***Part 1: Current Remediation Practices***

Chairperson - Bill Coedy

**08:20 G. Lafferty** – Colomac Remediation Plan Development – Involving Traditional Knowledge Approach of the Tlicho Elders

**08:40 B. Coedy** – Aeration of A Pit-lake to Remove Thiocyanate and Ammonia at Colomac, NT

**09:00 A. Richardson** - Petroleum Hydrocarbon Remediation – Colomac Experience

**09:20 E. Madsen** – Winter Road progressive Soil remediation in the Sub-Arctic, Abandonment and Reclamation Planning and the winter road Environmental Management System

**09:40 J. Cassie** – Adaptive “Natural” Remediation of A Fine-Grained Borrow Pit in the North – The Final Chapter

**10:00 Coffee**

**10:20 M. Rykaart** – Performance of Tailings Covers in Northern Climates

**10:40 E. Madsen** – Northern Ice Road Challenges and Future Options

***Part 2: Closure and Rehabilitation Design – Considerations for the Permafrost Regions Subjected to Climate Warming***

Chairpersons: Octavio Melo, Igor Holubec

**11:00 Introduction**

**11:20 B. Kochtubajda** - Climate Change and the Arctic

**11:40 Coffee**

**12:00 S. Smith** – Permafrost Thermal Response to Changing Air Temperatures

**12:20 L. MacPhie** – Practice and Performance of Reclaimed Mine Sites in Temperate Climates

**12:40 I. Holubec** – Required Design for Climate Warming in Permafrost

**- LUNCH -**

**14:50 to 16:30 Panel Discussion**

A seven panel member discussion with participation from the audience on topics related to closure/reclamation in permafrost regions subjected to climate warming.

Climate change is impacting the common closure/rehabilitation designs in permafrost region. Present design concepts have to be adopted for the changing climate and these have to apply to long-term environmental protection that is being demanded by society. A panel with varied background related to closure and rehabilitation design for projects in permafrost will present their views on topics that are relevant to present changing environment. Audience will be encouraged to present their views and ask questions. Following this Session a report will be prepared that will present the opinions and, hopefully consensus, on how to address these topics.



The topics that will be discussed are:

- What is long-term?
- Design air temperatures and climate warming
- Longevity of liners and thermosyphons
- Dam stability in the long-term
- Stability & erosion
- Are water covers and water treatment logical for remote areas?

The panelist will consist of five speakers from Parts 1 & 2 and the following:

Bill Horne, EBA Engineering Consultants Ltd.

Dionne Filiatrault, Nunavut Water Board