

**NORTHERN LATITUDES MINING RECLAMATION WORKSHOP**  
TECHNICAL PROGRAM  
MAY 24-26, 2005

**TRANS BOUNDARY**

1. **Trans-national 40-Mile River Watershed Assessment, Analysis, and Limited Remediation Plan**  
Edward Alexander, Yukon River Intertribal Watershed Council, Alaska  
Robin Sharples and Patrick Tobler, EDI Environmental Dynamics, YT

**COMMUNITIES**

2. **Colomac Co-operative Remediation Planning Approach**  
Authors t.b.d., NWT
3. **Geotechnical Staff Training for Closed Mines, a New Mining Best Practice?**  
Mr. Jim Cassie, BGC Engineering Inc., Calgary, AB; Mr. Dana Hagggar, Anvil Range Mining Corp., Faro, YT, and Mr. Doug Sedgwick, Deloitte & Touche Inc., Toronto, ON
4. **Anvil Range Mine Complex Terrestrial Effects Study Design: Elemental Concentrations in Vegetation, Wildlife and Soils**  
Justin Straker, C.E. Jones and Associates Ltd.  
Marie Gallagher, Glenda Fratton and Leslie Gomm, Gartner Lee Ltd.

**ABANDONDED MINES**

5. **Abandoned Mine Land Cleanups in Interior Alaska,**  
Linda Billingsley, BLM, Alaska
6. **Ecological and Human Health Risk Assessment of Mine Water Management Alternatives – Colomac Mine Site, NWT**  
Harriet A. Phillips, Burce E. Halbert and Stacey L. Fenandes, SENES Consultants Limited, Richmond Hill, ONT
7. **Chemical Variations in the Waters Draining the Hi-Yu Mine, Fairbanks Mining District, Alaska**  
John Clark, University of Fairbanks, Alaska

**TECHNOLOGIES**

8. **Proven Technology – A Bliss or Curse for Mine Reclamation in the North?\***  
Y.T. John Kwong, Janice Zinck, NRCAN, Ottawa, ONT
9. **Selenium Mitigation Methods**  
Andre Sobolewski, Microbial Technologies, B.C.
10. **Cost Effective Lime Neutralization and other Options for Mine Water Treatment**

Janice M. Zinck<sup>1</sup> and Wesley Griffith, CANMET - Mining and Mineral Sciences  
Laboratories, Natural Resources Canada

## **PERMAFROST**

- 11. The Precautionary Principle and Northern Mine Design and Closure**  
Holger Hartmaier, M.Eng., P.Eng., BGC Engineering Inc., Calgary, AB, Canada
- 12. Enhanced “Natural” Incremental Remediation Approach For a Fine-Grained Borrow Pit In The North**  
Jim Cassie<sup>1</sup>, P.Eng. and Geoff Claypool, P.Eng., BGC Engineering Inc., Calgary, AB  
Giselle Cotta, P.Eng., Public Works and Government Services Canada, Edmonton, AB  
Bob Johnson, P.Eng., Aboriginal Engineering Ltd., Yellowknife, NT  
Emma Pike, Indian and Northern Affairs Canada, Yellowknife, NT
- 13. Patterns of snow accumulation and soil temperatures at abandoned vegetated and unvegetated drilling mud-sumps, Mackenzie Delta Region, Northwest Territories.**  
Robert Jenkins and Steven V. Kokelj, Water Resources Division, Indian Affairs and Northern Development, Yellowknife, NWT
- 14. Thermal Conductivity of Sulphide Bearing Tailings**  
Mr. Jim Cassie, P.Eng., BGC Engineering Inc., Calgary, AB, Mr. Michael Porter, P.Eng., BGC Engineering Inc., Vancouver, BC; and Ms. Peri Mehling, P.Eng., Mehling Environmental Management Inc. Vancouver, BC

## **WATERSHED TECHNOLOGY**

- 15. Creek Stabilization at the former Clinton Creek Mine Site, Yukon Territory**  
Gil Robinson, UMH Engineering Ltd., Winnipeg, Manitoba
- 16. Breaching of the Fresh Water Supply Dam and Reclamation of the Former Reservoir, Faro Mine, Faro, Yukon**  
Gerry Ferris<sup>1</sup>, Cam Scott<sup>2</sup> and Dana Haggart<sup>3</sup>  
<sup>1</sup> BGC Engineering Inc. , Calgary, Alberta, <sup>2</sup>SRK Consulting Inc., Vancouver, B.C.  
<sup>3</sup>Anvil Range Mining, Faro, Yukon
- 17. A Large Diameter Culvert vs. an Engineered Rock Drain for a temporary stream crossing**  
David Brand, Luscar Limited, Edmonton

## **REVEGETATION**

- 18. Natural Reclamation of Abandoned Northern Mining Properties Through the Use of Revegetation**  
Shaun Lamoureux & Bob Johnson, Aboriginal Engineering Ltd., NWT
  - 19. Using Native Grass Species in Reclaiming Disturbed Sites**
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Jay Woosaree, Alberta Research Council Inc, Vegreville, Alberta

**20. Restoration of Tundra Communities Following Diamond Mining in the NWT, Canada: Challenges and Opportunities for Research**

M. Anne Naeth, Dept. of Renewable Resources, University of Alberta

**21. Revegetation of the Former Fresh Water Supply Reservoir, Faro Mine, Faro, Yukon**

Gerry Ferris<sup>1</sup>, Denis Lacroix<sup>2</sup>, Randy Lewis<sup>2</sup>, and Dana Haggar<sup>3</sup>

<sup>1</sup> BGC Engineering Inc., Calgary, Alberta

<sup>2</sup> Arctic Alpine Reclamation Group, Whitehorse, Yukon

<sup>3</sup> Anvil Range Mining, Faro, Yukon

**22. Revegetation and Monitoring Plan for the Snap Lake Diamond Mine**

Robin Johnstone, DeBeers Canada; Sandra Marken, Golder Associates

**23. Potential Revegetation of Processed Kimberlite at De Beers's Proposed Victor Diamond Project near Attawapiskat, Ontario**

Carman J. Stevens\*, Peter J. Beckett and Gerard M. Courtin

Department of Biology, Laurentian University

Sudbury, Ontario

**24. Directing natural succession in Yukon mine tailings sites: A low-input management solution**

Alison Clark\* and Tom Hutchinson, Environmental Science and Resource Programme, Trent University, Peterborough, ON

**25. Direct Vegetation of Weathered Mine Tailings at Lynn Lake, Manitoba**

Michael Cody, Greystone Environmental Consultants, Inc., Calgary, AB

**MODERN MINE CLOSURES**

**26. Reclamation at the Brewery Creek Mine, Yukon**

Brad Thrall, ALM Group, Vancouver, B.C.

## POSTERS

**Short-term plant and soil responses to reclamation of gravel-dominated human-induced disturbances, Churchill, MB, Canada**

Jennie Rausch, G. Peter Kershaw  
University of Alberta, Edmonton, AB, T6E 2E3, Canada

**Quartz Creek Trail AML Reclamation Project: Transforming Gold Prospecting Routes into Motorized Recreation Trails in the White Mountains National Recreation Area**

Tim Dupont, BLM Alaska

**Metapopulation dynamics and the establishment of native species on high-elevation coal mine waste rock dumps.**

Clint Smyth, EBA Engineering Consultants Ltd., Calgary, Alberta

**Rare Plant Mitigation Program at the Grande Cache Coal Mine, Alberta**

Bernd Martens, Grande Cache Coal Corporation, Calgary, Alberta;  
Sandra Marken, Golder Associates Ltd. Calgary, Alberta

**Plant Rescue- Mass Cultivation and Re-vegetation of the Rare Plant *Saxifraga odontoloma* at the Two Camp Creek Mine of Grande Cache Coal Corporation**

Bernd Martens, Sandra Marken, Roberto Mezzalama, Leila Regier and J. Stephen Goudey

**Review of Treatment Systems for Acid Rock Drainage and Mine Effluents**

Bill Price, NRCan, Smithers, B.C.

STANDBY SPEAKER (who didn't get his abstract in on time)

**Hydrogeological Assessment and Field Monitoring of the Brown-McDade Open Pit, Mt. Nansen Mine, Yukon, Canada**

Martin Guilbearlt, P.Eng, Gartner Lee Limited, Whitehorse, Yukon