

1:30 pm

**Fisheries Habitat Compensation Planning for Mine Drainage Impacts at the Island Copper Mine**

Marc E. Wen, François Landry, Michael D. McGurk, Andrew J. Harwood, Clem. A. Pelletier, *Rescan Environmental Services Ltd.*, Gibson L. Pierce and Ben. K. Wichers, *BHP Copper Inc.*

2:00 pm

**Implementing Programs to Improve Gold Recovery and Reduce Environmental Impacts by Artisanal Gold Mining in Brazil**

Rodolfo Neiva Sousa and Marcello M. Veiga, *University of British Columbia*

2:30 pm Coffee

3:00 pm

**Operating for Closure: Life of Mine Waste Management at Huckleberry Mine**

Peter C. Lighthall, Todd Martin, *AMEC Earth & Environmental*, and Kent Christensen, *Huckleberry Mines Ltd.*

3:30 pm

**Developing Tailings Ponds and Pit Lakes as Bioreactors and Habitat Cost-Effective Successes at Highland Valley Copper**

Heather Larratt, *Larratt Aquatic Consulting*, Mark Freburg and Robert Hamaguchi, *Highland Valley Copper*

4:00 pm

**Selenium in Geological Samples: Investing in a Mathematical Mystery**

Brenda M. Dixon, *Natural Resources Canada and University of British Columbia*

4:30 pm Closing Remarks

**SYMPOSIUM ADJOURNS**

**Name Tags Are To Be Recycled**

Please deposit your name tag in the box provided outside the meeting room.

**PAST PROCEEDINGS AVAILABLE**

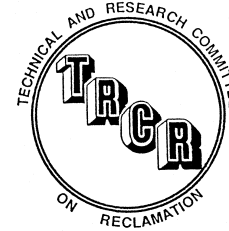
A CD containing 26 years of Symposium Proceedings (1977 - 2002) is on sale in Squamish for only \$100.00. The CD contains over 585 technical papers, and features complete text searching and keyword indexing.

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**ACKNOWLEDGEMENTS**

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**The British Columbia  
Technical and  
Research Committee  
on Reclamation**

*presents*

**B.C.'s 31<sup>st</sup> ANNUAL  
MINE RECLAMATION  
SYMPOSIUM**

*“Rejuvenation Through  
Reclamation and  
Operating for Closure”*

**September 17 - 20, 2007**

**Squamish, British Columbia  
Sea to Sky Hotel & Conference Centre**

Organized by The British Columbia  
Technical and Research Committee  
on Reclamation (TRCR) in cooperation  
with:

- ] B.C. Ministry of Energy, Mines and Petroleum Resources
- ] Natural Resources Canada
- ] Environmental Assessment Office
- ] B.C. Ministry of Environment
- ] Mining Association of British Columbia
- ] University of British Columbia
- ] Thompson Rivers University

**THANK YOU EVERYONE !!**

Note: All functions take place at the Sea to Sky Hotel & Conference Centre.

### Monday, September 17, 2007

9:00 am – 10:00 am

Short Course Registration

10:00 am – 4:00 pm

Short Course - Sea to Sky Ballroom - "Revegetating a Mine Site - Setting Objectives, Developing Techniques, and Evaluating Success": Justin Straker, *C.E. Jones and Associates Ltd.* and Clive Welham, *University of British Columbia*. Lunch provided.

7:30 pm – 8:30 pm

Symposium Registration - Sea to Sky Hotel & Conference Centre

7:30 pm – 10:00 pm

Wine & Cheese Reception - Sea to Sky Ballroom

### Tuesday, September 18, 2007

9:00 am

Depart Sea to Sky and Mountain Retreat hotels for tour of Britannia Mine. A bag lunch and dinner will be provided. Return approximately 7:00 pm.

### Wednesday, September 19, 2007

7:30 am – 10:30 am REGISTRATION

Technical Sessions - Sea to Sky Ballroom

Session Theme: *Britannia*

Session Chairs: Brenda Dixon, *Natural Resources Canada* and Carla Fraser, *Elk Valley Coal Corporation*

8:00 am

**A Review of the Management of the Britannia Mine Remediation Project – Counting the Pennies**

Barry Azevedo, *BC Ministry of Agriculture and Lands*, and Gerry O'Hara, *Golder Associates Ltd.*

8:30 am

**Storming the Beaches: Surface Water Aspects of the Britannia Mine Remediation**

Mark Adamson, Matthew Munn and Gerry O'Hara, *Golder Associates Ltd.*

9:00 am

**Britannia Mine: Back to the Future...Remediation Progress at Britannia and a Bright Future as a Consequence**

Gerry O'Hara, *Golder Associates Ltd.*; Barry Azevedo, *BC Ministry of Agriculture and Lands*; Jerry Bordian, *Britannia Bay Properties Ltd.*; and Kirsten Clausen, *BC Museum of Mines*

9:30 am

**Britannia Mine Water Treatment Plant: The First Year of Operations**

C. Madsen, *EPCOR*

10:00 am Coffee

10:30 am

**Britannia Mine Remediation Project – Integrating Ecological Monitoring with Reclamation Activities**

B.G. Wernick, L.H. Nikl, T.A. Zis, D.H. McKeown, *Golder Associates Ltd.*, and B. Azevedo, *BC Ministry of Agriculture and Lands*

11:00 am

**May We Please Clean Up? Integrating Risk-Based Approaches with Effluent Permitting Requirements at Mine Reclamation Sites**

L.H. Nikl, T.A. Zis and D.H. McKeown, *Golder Associates Ltd.*

11:30 am Lunch – No Host

Session Theme: *Reclamation Part One*

Session Chairs: Mark Freberg, *Highland Valley Copper* and Scott Davidson, *NovaGold Resources Inc.*

12:30 pm

**Winter Road Progressive Soil Remediation in the Sub-Arctic, Abandonment and Reclamation Planning and the Winter Road Environmental Management System (WREMS)**

Matt Barnette, Rick Hoos, David Das, Jeff Matheson, *EBA Engineering Consultants Ltd.*, and Erik Madsen, *Tibbitt to Contwoyto Winter Road Joint Venture*

1:00 pm

**Assessment of Copper in Spectacle Wetland, Mount Washington**

Theodore Back, Matthew Perkins and Brianne Rand, *Camosun College*

1:30 pm

**Native Grass Seed Development: 1975 – 2007 Challenges and Results**

Manivalde Vaartnou, *M. Vaartnou & Associates*

2:00 pm Coffee

2:30 pm

**Reconstruction of Forested Ecosystems on Rock Disposal Sites at Mount Polley Mine**

Ronald Meister, *Forestmeister Services*

3:00 pm

**Quinsam Coal Mine Reclamation: 25 Years of Reclamation Experience**

David Polster, *Polster Environmental Services Ltd.*, and Cale DuBois, *Quinsam Coal Corporation*

3:30 pm

**Using Music to Teach Mine Reclamation**

Marcello M. Veiga, Janis Shandro and Malcolm Scoble, *University of British Columbia*

6:00 pm No Host Reception

Sea to Sky Ballroom

7:00 pm Reclamation Awards Banquet

Sea to Sky Ballroom

### Thursday, September 20, 2007

Technical Sessions - Sea to Sky Ballroom

Session Theme: *Contaminated Sites*

Session Chairs: Bob Hart, *Environmental Assessment Office* and Peter Jarman, *BC Ministry of Environment*

9:00 am

**British Columbia Crown Contaminated Sites Program Overview**

Gregg Stewart and Heather Johnstone, *BC Ministry of Agriculture and Lands*

9:30 am

**Site Investigations and Remediation: Yankee Girl Tailing Site, Ymir, B.C.**

M. Tinholt, N. Sandstrom, *SNC Lavalin/Morrow Environmental Consultants Inc.*; J. Sevigny, *Iridium Consulting Inc.*; G. Stewart and G. Sinnett, *BC Ministry of Agriculture and Lands*

10:00 am Coffee

10:30 am

**Risk Ranking Methodology for Abandoned Mine Sites in B.C.**

B. Power, A. Fikart, *Azimuth Consulting Group Ltd.*; M.J. Tinholt, R.M. Wilson, *SNC Lavalin/Morrow Environmental Consultants Inc.*; G.G. Stewart and G.D. Sinnett, *BC Ministry of Agriculture and Lands*

11:00 am

**The Application of Small-Mammal Analyses in Terrestrial Ecological Risk Assessment, Former Yankee Girl Mine, Ymir, B.C.**

J.H. Sevigny, *Iridium Consulting Inc.*; J. Dulisse, *Masse & Miller Consulting Ltd.*; M. Tinholt, *SNC Lavalin/Morrow Environmental Consultants Inc.*; G. Stewart and G. Sinnett, *BC Ministry of Agriculture and Lands*

11:30 am

**Mount Washington Mine Remediation Project**

Wayne White, *Tsolum River Restoration Society*, and Peter Healey, *SRK Consulting (Canada) Inc.*

12:00 noon Lunch – No Host

Session Theme: *Reclamation Part Two*

Session Chairs: Todd Wambolt, *Gibraltar Mines Ltd.* and Bob Hamaguchi, *Highland Valley Copper*

1:00 pm

**Update on the Status of Selenium Investigations in the Elk River Valley, B.C.**

Peter M. Chapman, *Golder Associates*, Roger Berdusco and Ron Jones, *Elk Valley Coal Corporation*