

## **29<sup>th</sup> Annual British Columbia Mine Reclamation Symposium**

### **Agenda of Activities (Sept. 19 to 22<sup>nd</sup>, 2005)**

#### **Short Course**

On Monday, September 19, there will be a half day course on Acute and Sublethal Toxicity Testing for Mining Effluents. Details follow in this brochure.

#### **Symposium Field Tour**

Tuesday, September 20, there will be a full day tour of quarry and gravel rehabilitation.

**Display Space** in the Ramada Plaza foyer is available for set-up after 1:00 p.m. on September 19. There is no charge for display space, however, all persons staffing booths must register for the symposium.

#### **Tentative Agenda**

All functions will take place at the Ramada Plaza Inn.

#### **Monday, September 19, 2005                      1:00 pm - 4:30 pm**

Short Course on Acute and Sublethal Toxicity Testing for Mining Effluents.

**7:00 - 8:30 pm** Registration - Ramada Plaza Inn

**7:30 - 10:00 pm** Wine & Cheese Reception - Pinnacle 2 Room

#### **Tuesday, September 20, 2005**

**8:00 am**                      Depart Ramada Plaza Inn for tour of quarry and gravel pits. A bag lunch and voucher towards dinner will be provided. Return approximately 7:00 pm.

#### **Wednesday, September 21, 2005**

**7:15 am - 10:00 am - Registration**

**7:50 am                      Opening Remarks**

**Session Theme:                      Sediment Removal**

8:00 am                      Performance of Sediment Control Ponds, Texada Island Quarry  
Keith J. Mountjoy, Hemmera Envirochem Inc.; Harold M. Diggon,  
Texada Quarrying Ltd.; Brendan J. Vickery, Lafarge Canada Inc.

8:30 am                      An Evaluation of the Benefits of Incorporating Natural Slope Features  
into the Design of Final Mine Waste Landforms  
D. Christensen, B. Ayres and M. O'Kane, O'Kane Consultants Inc.

9:00 am Sediment Management Practices at the Kemess Mine  
Scott Davidson and Wade Stogran, Kemess Mines Ltd.

9:30 am COFFEE

**Session Theme: Use of Organic Amendments**

10:00 am The Impacts of Municipal Biosolids on some Indicators of Soil Health  
Tom Forge, Klaas Broersma, Gerry Neilsen, Shaobing Yu and Bruce Roddan,  
Agriculture and Agri-Food Canada, Pacific Agri-Food Research Centre

10:30 am Creating a Sustainable Cover for a Sand Tailings Dam Using Biosolids and Log  
Yard Debris  
Greg Smyth, M.Sc. Thesis Project, Royal Roads University

11:00am Residuals Reuse in Aggregate Mine Reclamation: A Decade of BC Experience  
Mike Van Ham, SYLVIS Environmental

11:30 am Using Technical Performance Measures at a Base Metals Mine Site Pre- and Post  
Biosolids Treatment  
Mark Sprenger and Harry R. Compton, U.S. EPA/ERTC; Amanda  
Maxemchuk-Daly, Lockheed Martin Corporation; Sally Brown, University of  
Washington; Mike Zimmerman, U.S. EPA; and Rufus L. Chaney, U.S. Dept. of  
Agriculture

12:00 pm LUNCH - No Host

1:00 pm West Page Swamp Wetland Restoration, Kellogg, Idaho  
Harry R. Compton and Mark Sprenger, U.S. EPA/ERTC; Jianwei Huang,  
Lockheed Martin Corporation; Sally Brown, University of Washington; and Earl  
Liverman, U.S. EPA

1:30 pm Elk Valley Coal Waste as a Growth Medium - Results of Soil and Vegetation  
Analysis from Elk Valley Coal's Fording River, Greenhills and Line Creek  
Mines  
Justin Straker and Carol Jones, C.E. Jones and Associates Ltd.; Roger Berdusco  
and Ron Jones, Elk Valley Coal Corp.

**Session Theme: Case Studies**

2:00 pm Land Use Benefits of Aggregate Extraction  
Brian French, C&F Land Resource Consultants

2:30 pm Polaris Mine - Reclamation in The High Arctic  
Bruce Donald, Teck Cominco Limited

3:00 pm COFFEE

3:30 pm Tailor-made Reclamation Solutions using Waste Products from External Sources  
at Boliden's Mine Sites  
Manfred Lindvall, Boliden Limited

4:00 pm A Tale of Two Pit Ponds - the Kemess Mine Expansion  
Rob Marsland, Marsland Environmental Associates; Rob Booker, Klohn Crippen  
Consultants Ltd., and Harold Bent, Northgate Minerals Ltd.

**6:00 pm No Host Reception**

**7:00 pm Annual Reclamation Awards Banquet**

**Thursday, September 22, 2005**

**Session Theme: Case Studies (Continued)**

8:30 am Update on Work at the Britannia Mine  
Gerry O'Hara, Golder Associates Ltd.

9:00 am Closure and Sustainability Initiatives leading to the Reopening of the  
Gibraltar Mine  
R.J. Patterson, Gibraltar Mines Ltd., and John C. Errington, John C.  
Errington and Associates Ltd.

9:30 am An Update on the Kemess South Fisheries Compensation Agreement and  
Evaluation of the Effects of Flow Regulation and Sediment Management  
Practices on Bull Trout Utilization in the Kemess Creek System  
Wade Stogran and Scott Davidson, Kemess Mines Ltd.

10:00 am Development and Implementation of a Decommissioning and Closure Plan at the  
Premier Gold Project  
David M. Mchaina, Boliden Limited

10:30 am COFFEE

**Session Theme: New Developments**

11:00 am Field Measurements of Changes of Water Contents and Prediction of the Rate of  
Drying with Time at or near the Ground Surfaces of Two Waste-Rock Piles  
L.K. Kabwe and G.W. Wilson, Department of Mining Engineering, University of  
British Columbia

11:30 am A Review of Environmental Impact Statements and their Utility for Coal Surface  
Mine Reclamation Planning in Alberta and British Columbia, Canada  
C.R. Smyth, EBA Engineering Consultants Ltd.

12:00 pm LUNCH - No Host

1:00 pm Selenium Status - Elk River Valley, BC  
Peter M. Chapman, Golder Associates

1:30 pm Selenium Monitoring and Management - New Mines  
Peter M. Chapman, Golder Associates

- 2:00 pm            Investigation of a Passive System for the Treatment of Mine Effluents - A Duplicate Column Study of Arsenic, Cadmium and Zinc Treatment in an Anaerobic Bioreactor  
Jonathan Kawaja, Natural Resources Canada, Mining and Mineral Science Laboratories - CANMET
- 2:30 pm            Summary of Field Performance Evaluation of Soil-based Cover Systems to Mitigate ARD for the Closure of a Potentially Acid-Generating Tailings Storage Facility  
K. Renken and E.K. Yanful, Civil & Environmental Engineering, University of Western Ontario; D.M. Mchaina, Boliden Limited
- Poster:             Influence of Soil Rehabilitative Techniques on Soil Properties at Abandoned Wellsites in Northeastern British Columbia  
Trevor McConkey, M.Sc. Candidate, Natural Resources and Environmental Studies, University of Northern British Columbia

**Closing Remarks**

**SYMPOSIUM ADJOURNS**