

12:00 pm – 1:30 pm: NO HOST LUNCH

Technical Session IV Chair: Anne Moody (BC MEM)

1:30 pm

Multispectral mapping of vegetation changes in reclaimed area at Highland Valley between 2001 and 2011.

M. Martinez, L. Brown, G. Borstad, J. Dickson and P. Martell

2:00 pm

Field protocol for assessing characteristic species thresholds in polygons on reclamation areas.

V. Futoransky, R. Fuller and G. Donald

2:30 pm

Establishment of a trial to test direct seeding of lodgepole pine for reclamation on Gibraltar mine properties, British Columbia.

B. Bravi and B. Chapman

3:00 pm

Closing Remarks

SYMPOSIUM ADJOURNS

Please recycle your name tags in the box provided at the registration desk

The BC TRCR would like to thank the following sponsors for their generous support of the 36th Annual BC Reclamation Symposium:

- Bob Hart for sponsoring First Nations participation;
- AMEBC for general sponsorship;
- Inmet Mining Corporation for sponsoring lunch for the Samatosum Mine Tour;
- MABC for sponsoring lunch for the Grasslands Tour;
- MABC for sponsoring the breakfast for the Samatosum Tour;
- New Gold for sponsoring lunch on September 19th;
- Stantec for sponsoring dinner at Quaaout Lodge for the Samatosum Mine Tour; and,
- Teck for sponsoring the Opening Reception.

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- Craig Stewart (MoE), 2012 Chair of the BC TRCR;
- Jaimie Dickson (Teck Highland Valley Copper), 2012 Vice-Chair of the BC TRCR;
- Tania Demchuk (MEM), 2012 Secretary/ Treasurer of the BC TRCR;
- Dirk van Zyl (UBC) for organizing the Technical Program;
- Wendy Gardner (TRU) for the Grasslands Tour. Speakers include: Liala Salm (FLNRO); Lauchland Fraser (TRU); Kelly Johnston (City of Kamloops); Rachel Jones (Golder Associates); Kathy Baeke (TRU Graduate Student)
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- Andrew Rollo (MEM) for coordinating the Samatosum tour and symposium sponsorship
- Ben Chalmers (MAC) and Tara Shea (MAC) for hosting the Towards Sustainable Mining Workshop;
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- Bill Price and Jaimie Dickson – First Nations and Community Sub-committee;
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- Student volunteers: Paul Antonelli, Kathy Baethke, Geoffrey Lewicki, Michelle Phillips and Brad White
- 2G Group for event organization: Geoff Greenwell, Rochelle Saddleman, Sierra Jones, Andy Johnson and Kole Krstev



The British Columbia Technical and Research Committee on Reclamation

presents

**THE 36th ANNUAL
BRITISH COLUMBIA MINE
RECLAMATION SYMPOSIUM**

September 17 – 20, 2012

**Kamloops, British Columbia
Coast Kamloops Hotel and Conference Centre**

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

- **BC Ministry of Energy and Mines (MEM)**
- **BC Ministry of Environment (MoE)**
- **Natural Resources Canada (NRCan)**
- **Mining Association of BC (MABC)**
- **Association for Mineral Exploration, BC (AMEBC)**
- **University of British Columbia (UBC)**
- **Thompson Rivers University (TRU)**

THANK YOU EVERYONE!!!

Venue: All functions take place at the Kamloops Convention Centre (KCC)

Monday September 17, 2012

Grasslands Tour

8:00 am – 9:00 am (KCC Foyer)

Symposium Registration for Grasslands Tour participants. Meet at the hotel entrance at 8:45 am to

8:45 am (Hotel Entrance)

Meet at the hotel entrance at 8:45 am to board the bus.

9:00 am

Bus leaves KCC for Lac du Bois and Kamloops area grasslands tour. Lunch Provided.

4:00 pm

Return to KCC

Symposium Registration

7:30 pm – 8:30 pm (KCC Foyer)

Welcome Reception

7:30 pm – 10:00 pm (Ballroom A)

Tuesday September 18, 2012

Samatosum Mine Tour

7:00 am (Ballroom B)

Field trip overview and safety presentation. Continental breakfast will be provided.

8:00 am

Buses leave KCC for Samatosum Mine. Lunch and dinner will be provided.

10:00 pm

Return to KCC

Towards Sustainable Mining Workshop

8:00 am (KCC Foyer)

Continental breakfast for workshop participants

9:00 am - 4:00 pm (Theatre)

TSM Workshop

Symposium Registration (cont'd)

8:00 am to 6:00 pm (KCC Foyer)

Wednesday September 19, 2012

Symposium Registration (cont'd)

8:00 am - 5:00 pm (KCC Foyer)

Opening Remarks

8:20 am (Theatre)

Technical Session I Chairs: Ryan Todd (New Gold) and Carla Fraser (Teck)

8:30 am

Mines act permitting: update on government structure, roles, responsibilities and requirements.

D. Howe, T. Demchuk, and A. Rollo

9:00 am

TSM in Action: The Mining Association of Canada's "Towards Sustainable Mining" Initiative.

B. Chalmers, E. Gardiner, J. Gelfand and T. Shea

9:30 am

Teck's Coal business unit applied research and development program – a watershed approach.

C. Fraser, J. Pumphrey and C. Qualizza

10:00 am : HEALTH BREAK (hosted)

10:30 am

A new paradigm for the restoration of drastically disturbed sites.

D. Polster

11:00 am

Developing a mine erosion and sedimentation control plan guidance document for exploration, construction, operation and closure.

J. Clark, A. Gibson, J. Rex, A. Moody and J. Orban

11:30 am

Invasive plants – impacts, pathways and vectors, and best practices.

C. Hougén, S. Woods, J. McCaffrey, and J. Romyn

12:00 pm – 1:30 pm: HOSTED LUNCH (Ballroom A)

Technical Session II Chairs: Kim Bittman (Taseko) and Andrew Rollo (BC MEM)

1:30 pm

Samatosum – A review of two early acid drainage prevention approaches.

A. Holmes, B. Hamblin, J. Hogarth, C. Ford, T. Anderson

2:00 pm

The flooded tailings impoundment at the Equity Silver Mine.

W. Price and M. Aziz

2:30 pm

Protection of groundwater and surface water at a bulk explosives facility using calculated risk-based guidelines.

D. Bright, L. Flemming and M. Choi

3:00 pm: HEALTH BREAK (hosted)

3:30 pm

Closure of the Lumby Quinto mine site.
S. Ames

4:00 pm

Site specific testing for sediment pond design at mine sites to lower the risk of exceeding discharge total suspended solids and turbidity.

J. Clark

Reclamation Awards Banquet

6:00 pm - 7:00 pm (Ballroom ABC)

No Host Reception

7:00 pm - 11:00 pm (Ballroom ABC)

Dinner and Awards Ceremony

Thursday September 20, 2012

Technical Session III Chairs: Wendy Gardner (TRU) and Ben Chalmers (MAC)

8:30 am

Enriching mine reclamation: highlights of the Brenda Mine biodiversity enhancement program.

A.J. Peatt, A.D. Peatt, D. Poster, D. Lister and G. Guillemint

9:00 am

Ecological effects of mine reclamation on grizzly bears.
B. Critescu, G. Stenhouse, M. Symbaluk and S. Boyce

9:30 am

Carbon sink potential of biosolid reclaimed mine tailings.

P. Antonelli, W. Gardner, K. Broersma and J. Karakatsoulis

10:00 am HEALTH BREAK (hosted)

10:30 am

Effectiveness of soil amendments and revegetation treatments at Huckleberry Mine, Houston, British Columbia.

A. Carson, M. Rutherford and P. Burton

11:00 am

Henretta Creek and Lake – a decade of reclamation monitoring.

M. Polzin

11:30 pm

Biofuel crop production on bio-solid amended mine tailings at Highland Valley Copper.

S. Crawford, W. Gardner and J. Karakatsoulis