ACKNOWLEDGEMENTS

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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)
- Brent Hamblin (Inmet Mining Corp.) for the tour of Samatosum Mine. Experts and tour guide volunteers include: Bill Price (NRCan); Natalie Tashe (Stantec); James Hogarth (Piteau Associates); Tracy Anderson (Inmet Mining Corp.); Jim Lewko (Inmet Mining Corp.); Barb Lewko (Johnson Lake Resort); Brenda Jones (local rancher); Ken Veillette (local rancher)
- 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;
- Dirk van Zyl, Carla Fraser, Ryan Todd, Kim Bittman, Andrew Rollo, Wendy Gardner, Tania Demchuk, Anne Moody, Craig Stewart and Jaimie Dickson for reviewing and editing the technical papers and proceedings;
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- Kim Bellefontaine (MEM), Craig Stewart, Angela Waterman (MABC), Wendy Gardner – Reclamation Award Subcommittee;
- Bill Price and Jaimie Dickson – First Nations and Community Sub-committee;
- Kim Bittman (Taseko Mines Limited) and Michelle Donnelly (MABC) – TRCR Website Maintenance;
- Michelle Donnelly and Naomi Hemphill (MEM) for administrative assistance for the committee;
- Student volunteers: Paul Antonelli, Kathy Baethke, Geoffrey Lewicki, Michelle Phillips and Brad White
- 2G Group for event organization: Geoff Greenwell, Rochelle Saddlemaker, 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)
### 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)

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### 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)

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### Wednesday September 19, 2012

**Symposium Registration (cont’d)**
8:00 am - 5:00 pm (KCC Foyer)

**Opening Remarks**
8:20 am (Theatre)

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30 am</td>
<td>Mines act permitting: update on government structure, roles, responsibilities and requirements. D. Howe, T. Demchuk, and A. Rollo</td>
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<tr>
<td>9:00 am</td>
<td>TSM in Action: The Mining Association of Canada’s “Towards Sustainable Mining” Initiative. B. Chalmers, E. Gardiner, J. Gelfand and T. Shea</td>
</tr>
<tr>
<td>9:30 am</td>
<td>Teck’s Coal business unit applied research and development program – a watershed approach. C. Fraser, J. Pumphrey and C. Qualizza</td>
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</tbody>
</table>

**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. Hougen, 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)

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:30 pm</td>
<td>Samatosum – A review of two early acid drainage prevention approaches. A. Holmes, B. Hamblin, J. Hogarth, C. Ford, T. Anderson</td>
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<tr>
<td>2:00 pm</td>
<td>The flooded tailings impoundment at the Equity Silver Mine. W. Price and M. Aziz</td>
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<tr>
<td>2:30 pm</td>
<td>Protection of groundwater and surface water at a bulk explosives facility using calculated risk-based guidelines. D. Bright, L. Flemming and M. Choi</td>
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### Thursday September 20, 2012

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>Ecological effects of mine reclamation on grizzly bears. B. Critescu, G. Stenhouse, M. Symbaluk and S. Boyce</td>
</tr>
<tr>
<td>9:30 am</td>
<td>Carbon sink potential of biosolid reclaimed mine tailings. P. Antonelli, W. Gardner, K. Broersma and J. Karakatsoulis</td>
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**10:00 am HEALTH BREAK (hosted)**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:30 am</td>
<td>Effectiveness of soil amendments and revegetation treatments at Huckleberry Mine, Houston, British Columbia. A. Carson, M. Rutherford and P. Burton</td>
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<tr>
<td>11:00 am</td>
<td>Henretta Creek and Lake – a decade of reclamation monitoring. M. Polzin</td>
</tr>
<tr>
<td>11:30 pm</td>
<td>Biofuel crop production on bio-solid amended mine tailings at Highland Valley Copper. S. Crawford, W. Gardner and J. Karakatsoulis</td>
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**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