



37th Annual

British Columbia
Mine Reclamation Symposium

September 16-19, 2013
Vancouver, British Columbia

BCTRCR Registration / Hospitality Desk



Location:

September 16 & 17: Hotel Lobby of the North Tower

September 18 & 19: Grand Ballroom Foyer

Hours:

September 16 3:00 pm – 7:00 pm

September 17 1:00 pm – 6:00 pm

(Exhibitor set-up from 5:00 pm – 8:00 pm)

September 18 7:30 am – 5:00 pm

September 19 8:00 am – 4:30 pm

(Exhibitor tear-down from 3:00 pm – 6:00 pm)

Sheraton Wall Centre

1088 Burrard St, Vancouver, BC

604-331-1000

Acknowledgments

The British Columbia Technical and Research Committee on Reclamation wishes to thank the following individuals and/or organizations for their contributions to the 2013 Reclamation Symposium:

Jaimie Dickson (Teck Highland Valley Copper), 2013 Chair of the British Columbia Technical and Research Committee on Reclamation

Ryan Todd (New Gold Inc), 2013 Vice-Chair of the British Columbia Technical and Research Committee on Reclamation

Tania Demchuk (Ministry of Energy and Mines), 2013 Secretary/ Treasurer of the British Columbia Technical and Research Committee on Reclamation

Ben Chambers (Mining Association of Canada) and David Ewing (Mining Association of BC) for hosting the Towards Sustainable Mining Workshop

Ben Chalmers (Mining Association of Canada), Donald McLennan (Canadian High Arctic Research Station), and Robert Hanner (International Bar Code of Life) for conducting the TSM Biodiversity Workshop

Gabe Morelli (Lehigh Materials), Joachim Pierre (Lehigh Materials), Ashley Ahrens (Sylvis), Lesley Dampier (Sylvis) and Mike Van Ham (Sylvis) for Lehigh Mine Tour

Sechelt First Nation for First Nations Performance at the Sechelt Long House

Chief Ian Campbell from the Squamish First Nation for providing a welcome for the Symposium.

Dirk van Zyl (University of British Columbia), Darren Cowan (Hillsborough Resources), Todd Wambolt (Gibraltar Mines Limited) – Technical Paper Sub-committee

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Kim Bittman (Taseko Mines Limited), Wendy Gardner (Thompson Rivers University), Craig Stewart (Ministry of Environment) and Dirk van Zyl (University of British Columbia) – Scholarship Sub-committee

Kim Bellefontaine (Ministry of Energy and Mines), Craig Stewart (Ministry of Environment), David Ewing (Mining Association of British Columbia), Wendy Gardner (Thompson Rivers University) – Reclamation Award Sub-committee

Bill Price (Natural Resources Canada) – First Nations and Community Sub-committee

Jonathan Buchanan (Association for Mineral Exploration, British Columbia) – Media Sub-Committee

Kim Bittman (Taseko Mines Limited) and Michelle Donnelly (Mining Association of BC) – for Website Maintenance

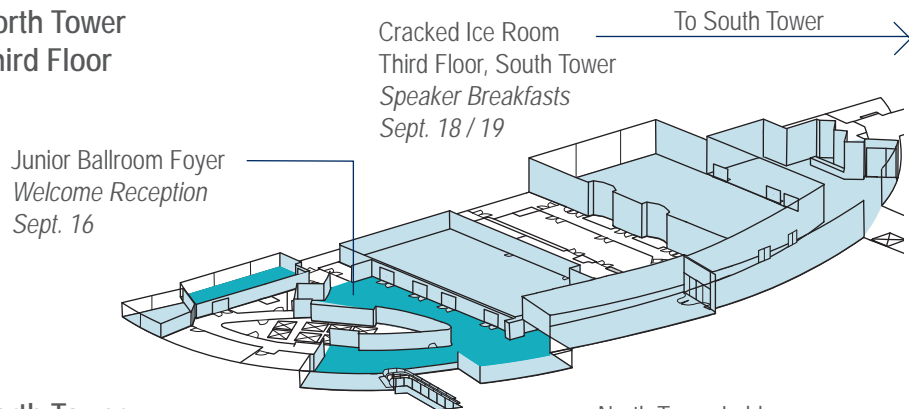
Michelle Donnelly (Mining Association of British Columbia) for administrative assistance for the committee

Cantrav Services Inc for event organization (Kelly Clarke, Tahira Endean, Krista Hall, Missy Preston)

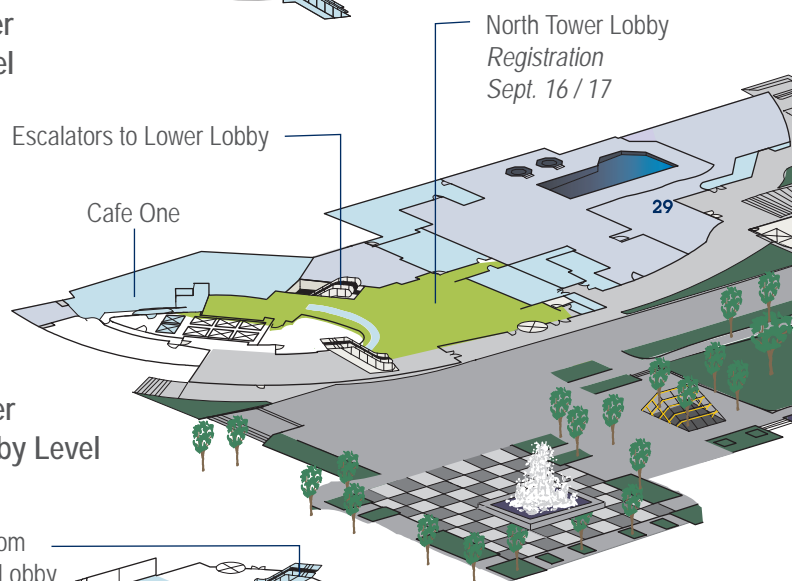
Student Volunteers: Kathy Baethke (Thompson Rivers University), Jayda Guy (Simon Fraser University), Geoffrey Lewicki (University of Northern British Columbia/ University of British Columbia), Michelle Phillips (Thompson Rivers University), Anny Shen (University of British Columbia), Linlin Zhang (University of British Columbia)

Sheraton Wall Centre - North Tower Layout

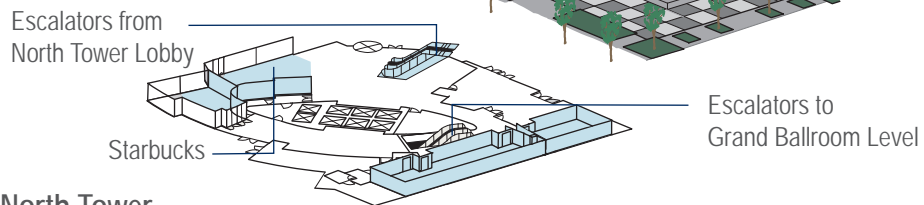
North Tower Third Floor



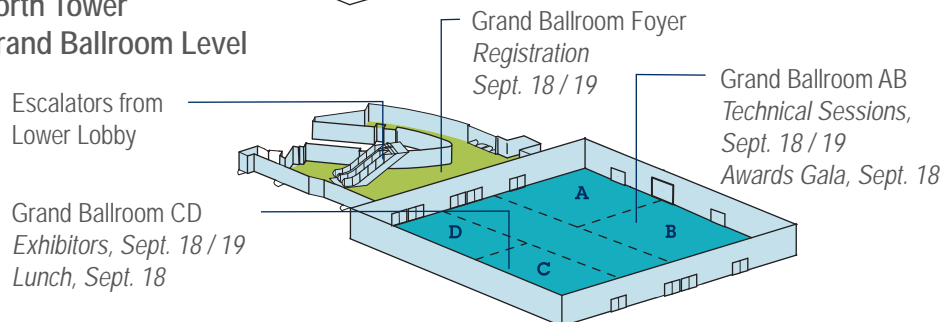
North Tower Lobby Level



North Tower Lower Lobby Level



North Tower Grand Ballroom Level



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Agenda

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Monday, September 16th, 2013		Wednesday, September 18th, 2013	
<p>1:00 pm – 5:00 pm Half-day Workshop Towards Sustaining Mining & Biodiversity Grand Ballroom AB</p> <p>3:00 pm – 7:00 pm Registration Desk Lobby of North Tower</p> <p>7:00 pm – 9:00 pm Welcome Reception Junior Ballroom Foyer</p>		<p>6:30 am - 7:30 am Speaker Breakfast - Sponsored by Mining Association of BC Cracked Ice Room, 3rd floor - South Tower</p> <p>7:30 am – 5:00 pm Registration Desk Grand Ballroom Foyer</p> <p>7:50 pm – 4:45 pm Technical Sessions Grand Ballroom AB</p> <p>7:50 am Opening Remarks</p> <p>8:00 am <i>Considerations in mine reclamation costing</i>, M.J. Brodie</p> <p>8:30 am <i>Above the coal mines: the evolution of mine reclamation in the United States</i>, M. Harding</p> <p>9:00 am <i>Decommissioning and remediation of the Pinchi Lake mine</i>, B. Donald, M. Unger, R. Marsland</p> <p>9:30 am – 10:00 am Break - Sponsored by Hemmera</p> <p>10:00 am <i>Use of ecological risk assessment to guide remediation at the Teck Pinchi Lake mercury mine</i>, P. Allard, R. Baker, C. Mackintosh</p> <p>10:30 am <i>Pinchi Lake mine closure – demolition debris disposal</i>, R. Marsland, M. Unger, B. Donald</p> <p>11:00 am <i>Long term post-reclamation management of the Pinchi Lake mine</i>, M. Unger, B. Donald, R. Marsland</p> <p>11:30 am - 1:00 pm Lunch Grand Ballroom CD</p> <p>1:00 pm <i>Processes and functions: A new approach for mine reclamation</i>, D. Polster</p> <p>1:30 pm <i>Site groundwater management strategies: groundwater metal remediation using permeable reactive barriers</i>, M. Choi, B. Lin, R. Hamm, G. Viehweger, H. Tolera, T. Kolb</p>	
Tuesday, September 17th, 2013			
<p>1:00 pm – 6:00 pm Registration Desk Lobby of North Tower</p> <p>MINE TOUR</p> <p>7:15 am - 10:30 pm Sechelt, Sunshine Coast Lehigh Sechelt Sand and Gravel Mine</p> <p>7:15 am Meet in North Tower Lobby to depart for Sechelt</p> <p>11:00 am - 4:00 pm Lehigh Sechelt Sand and Gravel Mine Lunch provided</p> <p>4:15 pm - 5:00 pm Sechelt Long House</p> <p>5:15 pm - 7:15 pm Dinner at the Sechelt Community Centre Dinner provided</p> <p>10:30 pm Estimated time of arrival at Sheraton Wall Centre</p> <p>PPE Required to leave bus while at the mine: Hard Hat Reflective Vest Steel Toed Boots Safety glasses (Sunglasses and prescription glasses do not qualify)</p>		<p>2:00 pm <i>Using the BC "Guidance for assessing the design, size and operation of sedimentation ponds used in mining" to comply with federal/provincial sediment control legislation</i>, J. C. Clark, H.A. Hemachandra Jayasena</p> <p>2:30 pm – 3:00 pm Break</p> <p>3:00 pm <i>Abandoned underground mine remedy evaluation and remedial design Captain Jack Mill Superfund Site</i>, Colorado, A.S. Bazin</p> <p>3:30 pm <i>Intensively monitoring cover system thermal properties with distributed temperature sensing</i>, L.K. Tallon, M.A. O'Kane</p> <p>4:00 pm <i>Bighorn sheep and Elk Valley coal mines: ecology and winter range assessment</i>, Kim G. Poole, C. R. Smyth, I. Teske, K. Podrasky, R. Serrouya, G. Sword, L. Amos</p> <p>6:30 pm - 10:00 pm Awards Dinner Grand Ballroom</p> <p>Thursday, September 19th, 2013</p> <p>7:00 am - 8:00 am Speaker Breakfast - Sponsored by Mining Association of BC Cracked Ice Room, 3rd floor - South Tower</p> <p>8:00 am – 4:30 pm Registration Desk Grand Ballroom Foyer</p> <p>8:30 am – 4:30 pm Technical Sessions Grand Ballroom AB</p> <p>8:30 am <i>"Moving mountains and goalposts – how do you know when you've reached the goal?" - Regulatory perspectives of mine reclamation success</i>, A. Moody, J. McConnachie</p> <p>9:00 am <i>From exploration to post-closure—the benefits of using terrain stability assessments in mine life planning</i>, V. Stevens, N. Tashe</p> <p>9:30 am – 10:00 am Break</p>	
		<p>10:00 am <i>Dominion (Gurney) minesite rehabilitation</i>, F. A. Baker, M. Bertram, B. Humbert, B. Boyd</p> <p>10:30 am <i>Planning for closure – Porcupine Gold Mines' mine closure program</i>, C.J. Stevens, T. Sulatycky, C.A. Small, L. Götz, R.T. Taillefer,, L.E. Burke</p> <p>11:00 am <i>Stakeholder engagement and additional remediation of the decommissioned Beaverlodge uranium mine site</i>, M. Webster, D. Hockley</p> <p>11:30 am – 1:00 pm Lunch Break - Participants on own</p> <p>1:00 pm <i>Twin Sisters native plant nursery: integrating research, training, and outreach for the propagation of native and culturally significant plant species in Northeastern British Columbia</i>, M.E. Keefer, N. Owens, C. Marshall, C.R. Mellott</p> <p>1:30 pm <i>Discussion of regulatory compliance strategies to achieve receiving water quality standards using selenium reduction/removal options</i>, D. J. Adams, J. P. Clark, A. Opara, and M. J. Peoples</p> <p>2:00 pm <i>In-Situ immobilization of selenium within the saturated zones of backfilled pits at coal-mine operations</i>, M. Bianchin, A. Martin, J. Adams</p> <p>2:30 pm – 3:00 pm Break</p> <p>3:00 pm <i>Low-cost self-cladding of coal dumps. The Fungcoal process</i>, M.P. Horan, P.D. Rose</p> <p>3:30 pm <i>Species richness at a small metals mine near an abundant source of native propagules</i>, K.L. Garrah, J. Straker</p> <p>4:00 pm <i>Reclamation of a limestone quarry to a natural plant community in the Rocky Mountains of Southern Alberta</i>, A.C. Cohen-Fernández, M.A. Naeth</p> <p>Symposium adjourns</p>	