

Alpha Coal West Inc
 AngloGold Ashanti (Colorado) Corp.
 Anglo American Metallurgical Coal
 ArcelorMittal Mines Canada
 Barrick Gold Corporation
 BHP Billiton Diamonds Inc.
 BHP BMA Coal Australia
 Canadian Natural Resources Ltd.
 Cliffs Natural Resources
 De Beers Canada Inc.
 Freeport McMoRan Copper & Gold
 Goldcorp Canada Ltd.
 Imperial Oil Ltd.
 Iron Ore Co. of Canada
 Kinross Gold Corporation
 KMC Mining Corporation
 Ledcor CMI
 Mitsubishi Development Pty Ltd



SMART Surface Mining Association
 For Research & Technology

SMART Meeting Agenda

Sunday May 11th, 2014

Our Host is Teck Resources Ltd.

550 Burrard St. Vancouver.

Location is the 15th floor (rooms 1502/03)

Newmont Mining Corporation
 North American Construction
 NovaGold Resources Inc.
 Peabody Energy Corporation
 Prairie Mines & Royalty Ltd.
 Queens University
 KGHM International
 Shell Canada Ltd.
 Suncor Energy
 Syncrude Canada Ltd.
 Teck Resources Limited
 Thiess Pty Ltd
 Total E&P Canada Ltd
 TransAlta Corporation
 University of Alberta
 University of Arizona
 University of British Columbia
 URS Corporation, Washington Div.
 Walter Energy

8:00 - 20 min *Coffee & Juice*

8:20 - 5 min *Safety Moment (Gord Winkel)*

8:25 - 5 min *Agenda Review, Action Log Review (attached)*

8:30 - 30 min *Company Profile: Gibraltar copper-molybdenum mine (Gord Simms)*

- *Understanding and Learning about the work of others in the industry*

9:00 - 20 min *Collision Avoidance – (Jason Wood - Shell)*

- *Learning about applications of new technology*

9:20 - 25 min *SMART Benchmarking (Tom Demorest)*

- *Learning about the work of the SMART Benchmarking Project*

9:45 - 25 min *Global Mining Standards and Guidelines Group (GMSG) (Heather Ednie, Paul Graham, Tim Skinner)*

- *Learning about the work of the Global Mining Standards and Guidelines Group*
- *New appointment for Vice-Chair SMART on the GMSG*

10:10 - 15 min *Break*

10:25 - 30 min *IBM Capability to Support Surface Mining Research (Dirk Claessens, Maja Veljkovic)*

- *Learning about applications of new technology.*

10:55 - 25 min *Autonomous Haul Truck project at Suncor (Chris Langmead)*

- *Learning about applications of new technology.*

11:20 - 25 min *Operational Safety & Risk Management (Gord Winkel)*

- *GMSG working group update*

11:45 - 15 min *2014 SMART Learning Seminar, (Tim Joseph)*

12:00 - 30 min *Lunch, Time & Location for Next SMART Meeting*

12:30 - 30 min *Advanced Technologies from NASA's Jet Propulsion Laboratory (JPL) (Jon Peck)*

- *Learning about applications of new technology.*

1:00 - 15 min *Canadian Mining Innovation Council (CMIC) update (Carl Weatherell)*

1:15 - 30 min *LNG in off-road mining equipment (George Aguilera, GFS-Corp)*

- *Technology Advancements on use of LNG in off-road mining equipment.*

1:45 - 25 min *Human Traffic Interface Control (Joel Bunting)*

- *Learning about applications of new technology.*

2:10 - 10 min *Truck Shovel User Group update (Steve Thornton)*

- *Meeting Update*

2:20 - 10 min *Large Tire User Group update (Andrea Bauer)*

- *Meeting Update*

2:30 - 10 min *EMESRT update (Mal Carroll)*

2:40 - 15 min *Information Sharing (Tom Demorest)*

2:55 - 10 min *Round Table*

3:05 - Adjourn for the day

ACTION LOG

DATE OF ACTION		NAME	DESCRIPTION	DATE REQ'D
Oct. 14, 2011	Action Item	Tim Joseph	Draft a recommendation on behalf of SMART related to tire service work.	Open
May 6, 2012	Action Item	Mike Lipsett	Continue to work a recommendation on what R&D could be undertaken with regard to the Rate of Heat & Pressure Build Up in Tire / Rim assemblies. Follow up with Caterpillar.	Open

Company Presentations Completed -

BHP Ekati,	Scott Williams, Oct. 21, 1999
IOC,	Rob Didur, March 7, 2000
Albian Sands,	John Clark, March 7, 2000
Elkview Coal,	Bill Fleming, June 21, 2000
Diavik Diamond,	Dave Passfield, Nov. 2, 2000
TransAlta,	Paul Clarke, April 29, 2001
Suncor	Steve Little, November 2, 2001
Klemke Mining	Dan Klemke, April 28, 2002
Fording	Gene Wusaty, November 8, 2002
NACG	Bill Koehn, May 4, 2003
Washington Group	Rick Lambert, November 7, 2003
Barrick	Larry Radford May 9 th 2004
Phelps-Dodge	Mark Bartlett September 16 th , 2004
Elk Valley Coal	Bill Fleming January 20, 2005
Syncrude	Gord Winkel, April 24, 2005
Luscar	Jim Chalmers, Sept. 23, 2005
CNRL	Allan Boddy, Jan. 13, 2006
Quebec Cartier	Jean Fortin, May 14, 2006
Ledcor CMI	Joe Lambert Sept. 13, 2006
U of Arizona	Dr. Sean D. Dessureault Sept 13, 2006
Queen's	Dr. Jonathan Peck, Sept. 13, 2006
Mitsubishi	Scott Todd, April 29, 2007
Thiess Pty Ltd	Ross Gibbons, April 29, 2007
University of Alberta	Tim Joseph, April 29 2007
University of BC	Rob Hall, April 29, 2007
Cleveland -Cliffs	Don Morrison, Nov. 1, 2007
Kinross Fort Knox	Dan Snodgress, Nov. 1, 2007
Rio Tinto	Lloyd Townley, Nov. 6, 2008.
Kearl Lake	Gord Winkel, Nov. 6, 2008.
BHP BMA Coal	Andre Giguere, Nov. 6, 2008.
Teck Resources Ltd	Ross Pritchard May 10th, 2009
Western Coal Corp.	Craig Dirk Nov. 5, 2009
Total E & P	Rolfe Timm Nov. 6, 2009
AngloGold's	Vivien Hui May 9th, 2010
ArcelorMittal Mines	Michel Privé Nov. 18, 2010
Shell Canada Energy	Paul Graham May. 22, 2011
Newmont Mining Corp.	Larry Clark Oct 14, 2011
KMC Mining Corp.	Zoli Lukacs May 6th, 2012
Suncor	Chris Langmead May 5, 2013
Exxon (IOL) Kearl Project	Steve Thornton Oct. 17, 2013
Gibraltar	Gord Simms May 11, 2014