

Welcome to the Surface Mining Association for Research & Technology (SMART).

In today's global business world, being able to share information, stay abreast of new technologies and focus research on future needs are critical to maintaining a competitive edge.

That's the thinking behind SMART, an organization that provides an opportunity for surface mining companies to join forces and work together to meet common needs.

SMART is an association of surface mining companies and firms who joined together in 1995 to develop a coordinated approach to meeting the needs of the industry. Collectively, our members have a wealth of knowledge and experience that can be used effectively to direct research programs and influence manufacturers and suppliers in meeting the needs of our industry.

I invite you to join other industry leaders who recognize the value of collaboration as a means of achieving tremendous results. Becoming a member of SMART gives you the opportunity to participate in research activities suited to your organization, take part in workshops that offer real-life solutions and share information with other companies. This is a unique opportunity - SMART is the only group that focuses on operating concerns for open pit mines of North America and Australia.

We know that there is strength in numbers. In fact, we recognize that the greater our membership, the greater our power for collaboration. I encourage you to read the enclosed information and find out how you and your organization can benefit from becoming a member of SMART. We look forward to welcoming you as a new member soon.

Gord Winkel
Chairperson

BECOME a MEMBER OF SMART

SMART is an association of mining companies that meet regularly to coordinate the technology development needed by the mining industry. Since 1995, the member companies have directed research and influenced the manufacturers and suppliers to improve surface mining technology and services. SMART actively supports learning seminars, collaborative research projects, and user groups.

Members of SMART include some of the major surface mining companies in North America and Australia. These companies have recognized the value that collaboration can bring to the needs of individual organizations as well as the North American mining industry.

Whether you're looking for additional knowledge through seminars or greater understanding through a research project, you decide how involved you want to be. New participants are always welcome, even with projects already underway.

For more information, contact:

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Or visit our website at:
www.smartmines.com



SMART Surface Mining Association
for Research and Technology

**Celebrating
12 Years !**

SMART brings the power of
collaboration to surface mining companies
across Canada and North America.

SMART partners:

Gain the advantage of collaboration
Share in the knowledge and experience of many
Work together to develop innovative solutions
Direct research activities to meet industry needs
Build partnerships through powerful networking
Influence industry suppliers and the development
of new products

SMART MEMBERS INCLUDE

Albian Sands	NovaGold Resources Inc.
Barrick Gold Corporation	Peabody Energy Corporation
BHP Billiton Diamonds Inc.	Phelps-Dodge Mining Company
BHP BMA Coal Australia	Quebec Cartier Mining
Canadian Natural Res. Ltd.	Queens University
DeBeers Group	Suncor Energy
Elk Valley Coal Corp.	Syncrude Canada Ltd.
Iron Ore Co. of Canada	Teck Cominco Ltd.
Klemke Mining Corp.	TransAlta Corporation
Ledcor CMI	University of Alberta
Mitsubishi Dev. Pty Ltd	University of Arizona
Prairie Mines & Royalty Ltd.	University of British Columbia
Newmont Mining Corp.	Washington Group International
North American Constructor	

Learning Seminars

Since 1995, SMART has identified growing challenges for the surface mining industry, and has developed seminars around key areas of concerns. The focus is to facilitate a greater understanding, encourage the sharing of information, and provide opportunities for collaboration. Members can participate and take advantage of tremendous knowledge from around the world, including forums for exchange of information and product needs with equipment manufacturers.

Upcoming Seminars:

Our next seminar is scheduled for 2008, at the University of Alberta in Edmonton. These learning seminars are always of interest to all personnel involved in mine planning, equipment selection, operations and maintenance.

For information contact
Tim Joseph at 780-492-3810 or 780-619-7742
tim.joseph@ualberta.ca

Previous Seminars:

2006: *'06 equipment evolutions Address the issues ... Mine On*
2005: *Managing Risk in a Changing Mine Environment*
2003: *Maintenance, Operations and \$\$*
2002: *Solutions for Better Health, Safety & Environment.*
2001: *Large Heavy Haulers "Is Bigger Better?"*
2000: *Information Needs of the Mining Industry*
2000: *Computer Mine Planning Workshop*
1998: *Large Haulage Truck Transportation*
1997: *Mine Maintenance*
1996: *Wireless Communications & Data Handling*
1995: *Global Positioning Systems in Mining*

For more Information on the following activities, contact the name provided or visit our web site www.smartmines.com

Collaborative Research and Projects

Collaborative research has always been the goal of SMART and one of the biggest benefits to members. The real payoff comes when members participate in research activities and projects that meet the needs of their organization. As an added bonus, the strength behind SMART can influence the direction of research, and help to ensure the future needs of the surface mining industry are met.

Mining Benchmarking Database

SMART has recognized the need for the establishment of a worldwide database that continuously collects mining equipment metrics related to productivity and cost. The data is validated to common definitions and analyzed to provide participating companies with regular reports that allow them to understand their position and resultant opportunities to achieve World Class Performance. The number of participants in this project continues to grow.

For information, contact [Tom Demorest](#) at 780-790-5092

Haul Truck Development

In collaboration with haul truck manufacturers and vendors this work looks at new concepts in haul trucks.

Wear Materials for the Mining Industry

In cooperation with the National Research Council in Vancouver, this project focuses on chronic wear problems, such as under carriage wear of dozers & pipeline abrasion..

Mine Haul Road Design and Construction

This project completed in 2001 evaluates road construction design techniques. A manual to aid engineers with design and construction of quality haul roads is available.

Diesel Emissions Evaluation

This project was completed in January 2000. It provides a historical evaluation of the evolution of diesel equipment and engines used in surface mining. The document provides a reference for mine permitting and environmental, health, & safety issues.

User Groups

As part of SMART's emphasis on bottom line results, user groups tackle specific challenges head-on and develop solid solutions that can benefit surface mining companies across Canada and North America. These user groups are evidence of the power from collaboration.

Truck - Shovel Equipment User Group

Recognizing that there is strength in numbers, this newest SMART initiative provides members the opportunity to network on issues relating to Trucks, Shovels and other Mine Equipment. Operations and Maintenance items are the focus. Meetings are about 2 times per year.

For information, contact [John Thomas](#) at 780-790-6789.

Large Tire User Group

Members of the Large Tire User Group are continually reaping the benefits of collective effort. This group is focused on achieving maximum tire life, developing common procedures for rim maintenance and handling tire related emergencies such as fires or electrical contact, and working with tire manufacturers in developing "intelligent tire" technology. Meetings are 2 to 3 times per year.

For information, contact [Paul Graham](#) at 780-743-7665.

Mining GPS Users Association

The GPS Users Association, established in 1996, brought together users of GPS technology with the intent to share experiences, ideas, and solutions. This user group has been successful influencing GPS system development and applications.