

SAFE MINE BACKFILL PRACTICES WORKSHOP

The purpose of this workshop is to present an overview of safe backfilling practices at mining operations, based on a study conducted in 2009/2010 by the Robert M. Buchan Department of Mining, Queen's University and Workplace Safety North. The target audience includes mine personnel, especially engineers, technicians and operators involved in backfilling operations. The program will include a site visit at the state-of-the-art paste backfill system at Kidd Mine, Xstrata Copper, Timmins. The presenters will be Dr. James F. Archibald and Dr. Euler De Souza, The Robert M. Buchan Department of Mining, Queen's University, Kingston, Ontario.

See additional workshop information on pages 2-3.

Date:	May 4 & 5, 2011	Time:	See page 3
Location:	Cedar Meadows Resort & Spa, 1000 Norman Street, Timmins ON	Phone:	705 268.5800
Cost:	\$800 + taxes per participant before April 4, 2011; \$1000 + taxes per participant after April 4, 2011. Lunch and refreshments will be provided. HST #R802868299.		
To register:	Complete this form and return to Workplace Safety North (WSN) no later than April 22, 2011 . Payment is required at time of registration (cheque, Visa or MasterCard). The use of a Purchase Order must be pre-approved by WSN. Registrations will not be accepted by phone. Course minimum is 8; maximum is 20. <i>Register early to avoid disappointment.</i>		
Contact Info:	Carol Lessard 690 McKeown Avenue, P.O. Box 2050 Station Main, North Bay, ON P1B 9P1 1 888 730.7821 T 705 474.7233 ext. 265 F 705 472.5800 E carollessard@workplacesafetynorth.ca		

Client Information: WSIB Account #/Firm #: _____ **-OR-** Not registered with WSIB

Company Name: _____ **Division:** _____

Contact Name: _____ **Job Title:** _____

Email Address: _____

Street Address: _____

City/Province: _____ **Postal Code:** _____

Phone Number: _____ **Fax Number:** _____

Registrant Name(s) [First Name, Last Name]:

1. _____	4. _____
2. _____	5. _____
3. _____	6. _____

Payment Information: **Amount:** \$ _____

VISA Exp Date /____/____

MasterCard

Name of Cardholder: _____

Signature: _____

Cheque enclosed (*made payable to Workplace Safety North*)

Purchase Order #: _____ Invoice attention to: _____
(use of PO # must be pre-approved by WSN)

Cancellation Policy:

- Registrants who provide written notice of cancellation at least one week prior to course start date will not be charged. Less than one week notice of cancellation or non-attendance will incur the full cost of registration. Participant substitutions may be made at any time prior to the start of the course.
- WSN reserves the right to cancel or re-schedule a course. Registrants will be informed of any cancellations at least one week prior to the course start date. WSN's liability is limited to the registration fee.

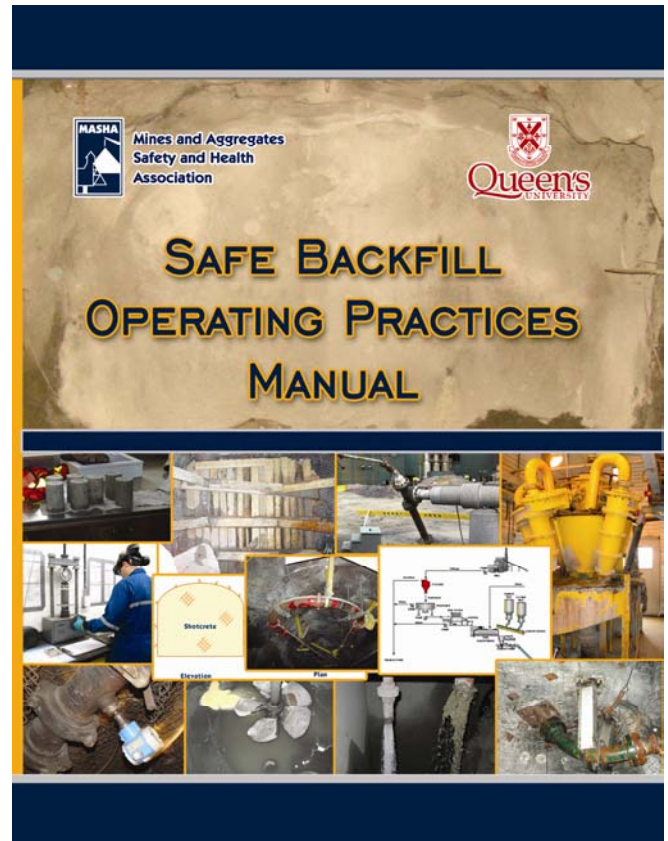
Safe Mine Backfill Practices Workshop

Background

In 2009/2010 the Robert M. Buchan Department of Mining, Queen's University and Workplace Safety North (WSN) conducted a comprehensive study on industry practices for the control of hazards associated with mine backfill in underground mines.

A total of eleven mines, ten of which are located in Ontario, responded to a detailed questionnaire concerning backfill practices; site visits at all participating mines were also conducted by the researchers. Both hydraulic (slurry) and paste fill operations were included in this study, with approximately two-thirds of these operations being devoted to paste applications.

A 56-page manual and video on *Safe Backfill Operating Practices* were subsequently prepared by WSN and Queen's University.



Workshop objectives

The primary objective of this workshop is to transfer knowledge acquired during the study to WSN's member firms and other organizations. The overall goals of this workshop are:

- to present the current state of backfill usage, including standard operating procedures (SOP) in underground mines
- to identify potential health & safety hazards associated with backfill practice, including fill plants, distribution systems, and underground areas
- to present hazard control measures in fill plants, distribution systems, and underground areas
- to explore the latest advances in the preparation, transportation and placement of backfill in operating mines
- to introduce backfill management programs and strategies for implementation at operating mines

Who should attend?

The course will be of value to all mine personnel, especially engineers, technicians and operators involved in backfilling operations. The workshop will provide detailed concepts and applications of backfill technology, and it is designed to be fully comprehensive for those with only a basic background in science, as well as personnel who have received more extensive training in backfill operations.

Presenters

James F. Archibald

Dr. James F. Archibald is a Professor in the Robert M. Buchan Department of Mining, Queen's University. He pursues an active career as a technical advisor to industry and his current research interests include assessment of innovative forms of backfill media, development of rapidly deployable spray-on lining supports for underground hard rock mines and the use of similar spray liner agents for acid mine drainage control.

Euler De Souza

Dr. Euler De Souza, a registered professional engineer in the Province of Ontario, is a mining engineer and technical advisor in mine environment and mine monitoring. He holds B.Sc., M.Sc. and Ph.D. degrees in Mining Engineering. He is actively involved in backfill/pastefill modeling and design for industry. The modeling work involves use of a centrifuge, managed by Dr. De Souza in the Robert M. Buchan Department of Mining, Queen's University.

Workshop program

Day 1, Wednesday, May 4, 2011

7:30	Welcome
8:00	An introduction to backfill practices
8:30	Backfill plant - Operation, hazards, control, management
10:00	Morning Break
10:30	Backfill transportation - Operation, hazards, control, management
12:30	Lunch
13:30	Backfill placement - Operation, hazards, control, management
15:30	Afternoon break
16:00	Backfill management programs
17:00	Close day one

Day 2, Thursday, May 5, 2011

7:00	Backfill Plant and Underground Backfilling Site Visit, Kidd Mine, Xstrata Copper
12:30	Lunch
13:30	Underground Backfill Practices in Canadian Mines
14:30	Economics and Perspectives of Underground Backfill Practices
15:00	Afternoon break
15:30	Video presentation and discussion
16:30	Close day two