

MINE BACKFILL WORKSHOP

September 20-22, 2022 — Chamber of Commerce and Industry, Belgrade, Serbia

Workshop Overview

In today's tough economic climate, mine backfills play an increasing role in sustaining the viability of mining operations worldwide. Beyond the traditional roles of maximizing resource extraction, improving safety, and increasing productivity in otherwise difficult deposits, there is increasing pressure from local stakeholders and communities to reduce surface impacts and even eliminate surface tailings impoundments. Hence even high cost alternatives, such as paste fills, are now becoming mainstream. The capital for a modern backfill system may well run into the tens of millions of dollars.

The cost effective design of mine backfills is a complex process that must consider the available materials, the geomechanical requirements for the mine, the geotechnical properties of the fill, and a host of other mining and cost related factors. The life-of-mine costs for backfill can represent a significant part of the overall cost of the mining cycle, however, optimizing these costs requires an understanding of backfill engineering that goes beyond most university curriculums and minesite training. The workshop is designed to provide an "everything backfill" overview of backfill engineering primarily aimed at mining engineering and technical staff, and backfill operations personnel.

Key Learnings

This workshop will provide a unique overview of the engineering of a backfill system from the mining perspective. Lectures include the geotechnical properties of minefills, the geomechanics of minefills, numerical modelling, backfill mix designs, backfill quality control, and backfill instrumentation. Participants will gain a solid understand of the basics of backfill designs including industry standard design tools.

Your Instructors

The workshop will be led by a number of recognized industry experts in mine backfills. The workshop attendees will benefit from the background and experience of the instructors all of whom have a track record of success in the industry.

Dr. David Stone, P.E. is an internationally renowned expert in mine backfills with over 35 years of consulting to metal mines worldwide. He is the President of MineFill Services USA and is based in Tucson, Arizona.

Dr. Murray Grabinsky, P.Eng. is an expert in field sampling and instrumentation of backfills. Murray is a Professor at the University of Toronto and is widely recognized for his research into the behavior of paste fills and barricade designs.

Mr. Stephen McGrath is a Senior Backfill Engineer with MineFill Services and is an expert on laboratory testing, evaluation of paste mix designs, and paste plant troubleshooting. Steve is located in NSW, Australia.

Dr. Matt Helinski, has a Ph.D. in backfill geomechanics and is renowned globally for his expertise in geotechnical modelling. Matt is resident of NSW, Australia.

This workshop is hosted by **MINEFILL SERVICES** a global provider of backfill engineering. Our hosting partner is **Mineral and Mine Backfill Technologies (MMBT)**, Belgrade, Serbia



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Who Should Attend

This workshop is designed for a range of professionals involved in mine backfilling, including:

- Mining and geotechnical engineers
- Rock mechanics engineers
- Tailings engineers
- Technical services professionals
- Project/Study managers
- Backfill plant operators
- Backfill technicians and QA/QC staff
- Metallurgists
- Environmental managers
- Equipment vendors

Date/Venue

This three day workshop will be presented in the conference facilities of the Chamber of Commerce and Industry in Belgrade, Serbia. Space will be limited and is being offered on a first-come, first-serve basis. The registration fee includes a printed workbook with all of the presentation materials, plus all lunches/tea/coffee breaks during the workshop.

The day after the workshop will include a tour of the MMBT backfill laboratory facilities.

Discounted accommodation will be made available in the host hotels by requesting the “MineFill workshop rate”.

Registration and Fees

The workshop fee is EUR € 900 per delegate. Please download our Workshop Attendee Form from our web site at www.minefill.com. For corporate invoicing, please send us an email with the names and job titles of the participants, and a billing address.

Workshop Contacts

Please direct all workshop enquiries to:

Bev Heizler, Workshop Coordinator — workshop@minefill.com

Workshop Agenda

Module	Tuesday	Wednesday	Thursday	Friday
0730-0900	Backfill Selection	Rock Mechanics	Backfill Quality Control	Tours
0900-0930	Break	Break	Break	
0930-1100	Rockfills Hydraulic Fills	Backfill Geomechanics	Modelling Instrumentation	
1100-1200	Lunch	Lunch	Lunch	
1200-1330	Paste Fills	Binders Backfill Strengths	Barricades Case Histories	
1330-1400	Break	Break	Break	
1400-1530	Geotechnical Properties	Mining Under Backfill	Paste Reticulation Paste Operations	
Evening	Dinner	Social Evening	Free	

The workshop and all printed materials will be presented in English.

Disclaimers:

**The sponsor reserves the right to cancel the course if the registration is insufficient.

**The availability of the workshop presenters is not guaranteed and substitutions may be made.

**The workshop agenda is for information purposes only and may be modified prior to the workshop date.



HOW TO REACH US

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