Choosing the right type of backfill has become very project specific; constraints such as schedule, cash flow, source materials and regional skills all impact the choice of backfill type and source.

The successful implementation of a backfill system is dependent on a number of factors. A fundamental understanding of the material properties and geomechanics, balanced process engineering and hydraulic design, safe placement strategies and cost-effective operational management planning are all important in order for backfill to do its job - support the mining cycle at the lowest cost possible!

Participants will gain an appreciation of the requirements for designing and operating a safe, cost-effective and reliable backfill system. The course objectives are to:
- Introduce the fundamental concepts of geo-mechanics and material properties;
- Examine the various elements that go into engineering a backfill system, including testing, plant and process design, reticulation and barricades;
- Relate to operational aspects of a backfill system including quality assurance, cost reduction, operational management plans, risk control and new technology.

The intensive course consists of 3 days of technical lectures, case studies and laboratory demonstration sessions, followed by an optional site visit (surface and underground) to Glencore’s Kidd Mine to examine its paste backfill system. The course will be delivered in English.

The course is presented by Paterson & Cooke senior staff, with contributions from guest speakers. All key lecturers will be available throughout the week for discussion and questions.

Rob Brown Director, (Mining) Engineer, leads P&C’s global backfill group and specializes in pastefill and system design, construction and commissioning.

Maureen McGuinness Principal, (Process) Engineer, specializes in pipeline wear and adds direct operational experience from years managing the Kidd Mine pastefill system.

Stephen Wilson Director, (Mining) Engineer, adds international expertise from mining in Russia and the integration of tailings management and backfill technologies.

Dr. Matthew Treinen (Mechanical/Civil) Engineer, specializes in backfill system hydraulics, reticulation system design and rheological characterization.
The course is designed for all professionals involved in backfill applications, including:
- Mining and geotechnical engineers
- Chemical and mineral processing engineers
- Mechanical engineers
- Operational staff
- Project and/or study managers
- Business decision makers
- Government legislators and policy makers

The course will be held from Tuesday, March 26th through Friday, March 29th, 2019. The first three days will be held in Sudbury, Ontario at the Laurentian Executive Learning Center with a visit to P&C's backfill laboratory. The optional fourth day is a site visit to the Kidd Mine, a Glencore Operation, in Timmins, Ontario; a four-hour drive from Sudbury, requiring an overnight stay, in Timmins, on Thursday. Transportation by bus, one nights' accommodation and lunch on Friday is included in the site visit fee.

Space is limited for the site visit and therefore registration for the site visit will be on a first come, first served basis. Register on-line at www.PatersonCooke.com

The sponsor reserves the right to cancel the course or the site visit and return registration fees if enrollment is insufficient. Personnel substitutions may be made at any time without penalty. Cancellations will be charged a $275 service fee. No refunds will be made to participants who fail to substitute or cancel at least five working days prior to the start of the course.

Registration Enquiries: Melissa McCauley, PC-Accounting.Canada@PatersonCooke.com
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