

TAILINGS AND MINE WASTE 2023



November 5-8, 2023 | JW Marriott Parq Hotel | Vancouver, BC

Short Course Outline

Short-Course Title:

Tailings Management Systems

Topic outline:

The GISTM requires that tailings storage are managed under a Tailings Management System (TMS). Several guidance documents present the concept of a Tailings Management System (TMS), however, there is a lack of practical examples applying these concepts, especially within mining organisations' existing management systems. Precedence for TMS can be found in the water dam industry, where Dam Safety Management Systems are well-defined and implemented.

This short-course will look at the core elements of TMS and allow participants to hear how mining companies have implemented their own TMS.

Expected learning outcomes:

Participants are expected to learn:

- The core elements of a TMS
- How the water dam industry has implemented dam safety management systems
- How mining organisations have implemented TMS
- Considerations and practicalities of developing and implementing a TMS within a mining organisation

Proposed draft agenda:

Note: The majority of the short course will mainly comprise of moderated panel discussions on specific topics pertinent to TMS.

Session No.	Topic	Notes	Presenter	Approx time
1	The core elements of a TMS	Presentation followed by panel discussion	Presentation Jiri Herza & Ryan Singh Panel presenters	Presentation 20 mins Panel 30 mins
2	Dam Safety Management System – Example of an implemented management system	Presentation and Q&A	Water dam owner rep (e.g. BC Hydro, USBR)	30 mins

3	Considerations in developing a TMS	Panel discussion and Q&A	Panel presenters	30 mins
4	How to implement, verify and improve a TMS	Panel discussion and Q&A	Panel presenters	30 mins
5	Implementing a TMS amongst other management systems	Panel discussion and Q&A	Panel presenters	30 mins
6	Open Q&A	Panel discussion	Panel presenters	30 mins

Panel presenters:

- **Ryan Singh**, Senior Consultant & Director, HATS Consulting
- **Imran Gillani**, Principal Advisory Tailings and Dams, Rio Tinto
- **Jarrad Coffey**, Manager Tailings & Dams, Rio Tinto Iron Ore
- **Johan Boshoff**, VP Global Tailings Management Head of Tailings, Gold Fields
- **George Afriyie**, Senior Engineer, Newmont
- **Geraldo Paes Junior**, Corporate Geotechnical Director, Vale
- **Jiri Herza**, Czech Technical University, Prague, Czech Republic.