The cross-cutting symposia at the Extraction 2025 Meeting & Exhibition (Extraction 2025) are designed to create a dialogue among conference participants on topics of common interest and will provide forward-looking, multi-disciplinary, and societal perspectives. Be part of the discussions in various cross-cutting topics at Extraction 2025 along with experts and the community at large at this conference.

PLANNED TOPICS INCLUDE:

**Industry 4.0**
- Digital Twins
- Machine Learning
- Artificial Intelligence (AI)
- Process Control
- Sensors/Measurement

**Recycling and the Circular Economy**
- EV Batteries
- Residues
- Reprocessing (Value from Waste)
- LCA
- E-waste
- Catalysts
- Slag Valorization

**Economics and Markets**
- Responsible Sourcing
- Policy
- Critical Minerals
- By-Products
- Project Financing
- Green Investments

**Strategies for Decarbonization**
- Green Energy/Hydrogen/Modular Nuclear Reactors
- Carbon Capture and Utilization

**Responsible Mining/Processing**
- Health & Safety
- Environment
- Tailings
- Transportation/Haulage
- Automation
- ISL/ISR
- Water Usage
- Indigenous Community

Abstract submissions are due November 1, 2024. To learn more, visit:

[www.ExtractionMeeting.org/CrossCutting](http://www.ExtractionMeeting.org/CrossCutting)