

EEGS / AEG 2023 Virtual Symposium

## “Life of Mine – Maintaining Sustainability Through Geoscience”

*The Role of Geoscience in Mine Site Regulation, Running, Rehabilitation, Re-purposing, Retirement, and Reclamation*

May 15-17, 2023

[www.minesymposium.org](http://www.minesymposium.org)

**CALL FOR ABSTRACTS NOW OPEN - DEADLINE APRIL 3, 2023**  
**EARLY BIRD REGISTRATION OPENS FEBRUARY 27, 2023**

This online Symposium is a global event to bring the mining geoscience and engineering community from diverse professional Societies together, over a series of recorded 1/2 day sessions to share advances and case histories in the application of mining geosciences throughout the entire life cycle of a mine. An event not to be missed if you are involved in mining and mine site production, consulting and research.

We welcome your technical contribution - please submit your abstract to be part of the program. Integrated geoscience case studies are particularly welcomed. Register soon to be part of this important mining geoscience learning event and to join in planned panel discussions. Share this newsletter with your mining geoscience colleagues and encourage their participation and contribution.

Keynotes are being finalized (with more to come soon covering mine geotechnical, hydrogeological, environmental, water management, mine expansion and mine closure / re-purposing challenges in sustainable mining) and the keynotes include:

**Simon Jowitt, University of Nevada Las Vegas - Climate Change Mitigation, the Energy Transition and the Minerals Industry**

Climate change mitigation will require a significant decrease in the CO<sub>2</sub> emissions associated with transport and energy generation and more. However, the metal and mineral requirements for this transition are often neglected when developing plans and policy around combating climate change. This presentation will outline the mineral requirements for a low CO<sub>2</sub> future, why meaningful climate change mitigation will necessarily rely on the raw materials supplied by the minerals industry, and the implications of this for the future of mining and mineral and metal extraction.

**Adrien Dimech, Université du Québec en Abitibi-Témiscamingue, Rouyn-Noranda, Québec - A Review on Applications of Time-Lapse Electrical Resistivity Tomography over the Last 30 Years:**

Mining operations generate large amounts of wastes which are usually stored in large scale mine waste rock piles (WRP) and tailings storage facilities (TSF) storage facilities which pose major environmental concerns. They must be properly monitored to manage the risk of catastrophic failures and to control the generation of contaminated drainage. This presentation provides an overview of time-lapse electrical resistivity tomography (TL-ERT) applications with several recent case examples covering (i) improved metal extraction, (ii) economical wastes mapping, (iii) contaminated drainage characterization, (iv) geotechnical stability monitoring and (v) geochemical stability monitoring. Recent advances in instrumentation, data acquisition, processing and interpretation for long-term monitoring and future research directions will also be outlined.

**Tentative Planned Program** - Seeking single and multi-disciplinary mining geoscience research and case study contributions within 6 themes:

Mine engineering, operation, monitoring and expansion, Environmental Concerns and permitting, Regulatory Water and soil management, Rehabilitation, re-purposing of historical mines (e.g., re-processing of mine wastes for critical minerals), Closure and reclamation planning and implementation, and Education Toward Future Mining Geoscience Practice.

**Educational Day** - Planning is underway for a schools-focused day on the final day of the event, to raise awareness to the new generation of aspirational scientists of the attractiveness and value of geosciences servicing mining as a profession, that will be positively contributing towards a sustainable climate change and zero carbon future and ensure that mining into the future becomes more responsible and sustainable.

**Sponsorship Opportunities** - Sponsoring builds lasting recognition and good will for your company and is crucial to the success of the event. All sponsorships include your logo with a link to your website on the Symposium website.

**Gold Sponsor Package \$5000** - Four Symposium Registrations; Exclusive Sponsorship of a half day (two technical sessions) or final day of the Mining Geoscience Education and Career Focus day; Ability to co-moderate the session; listing in the Symposium Program available to all attendees; and full Page Ad in the Symposium Program.

**Silver Sponsor Package \$2500** - Three Symposium Registrations; listing in the Symposium Program available to all attendees; and half Page Ad in the Program with Abstracts.

**Bronze Sponsor Package \$1000** - Two Symposium Registrations; listing in the Symposium Program available to all attendees; and quarter Page Ad in the Program with Abstracts.

**For More information** - Please contact one of the organizing committee members: - **David Knott (AEG), Geoff Pettifer (EEGS), or Heather Clark (Symposium Manager)** at [lifeofminesymposium@gmail.com](mailto:lifeofminesymposium@gmail.com) and check [www.minesymposium.org](http://www.minesymposium.org) for updates.