



**Virtual Conference Agenda
November 30 – December 1, 2021**

<https://youtu.be/dFODXHhio-k>

TUESDAY November 30, 2021

09:30 CONFERENCE OPENING:

Welcome: *John Stekar (CEP Ltd.) MDEC President*

Opening Words: *Magdi Habib, (Director General, CanmetMINING)*

Scholarship: *Cheryl Allen (Vale), Co-Chair MDEC Conference*

Introduction of Keynote Speaker: *Jozef Stachulak (Mirarco), MDEC Committee*

Keynote Address: “Future direction and innovation in mining“, Michael MacFarlane, (Director), MDM Consulting

Organization *David Young (Natural Resources Canada), Co-Chair MDEC Conference*

11:00 SESSION 1: MONITORING DIESEL ENGINE EMISSIONS

CHAIRPERSON: Amelie St-Onge Deschamps, (CanmetMINING)

- **Secondary emissions generated from emissions control devices and their impact on occupational health and safety plans**, Dr. Norbert Heeb (EMPA, Swiss Federal Laboratories for Materials Science and Technology)
- **Emissions reductions performance of a Tier 2 air-cooled diesel engine retrofitted with an integrated diesel particulate filter system with selective catalytic reduction**” Caravaggio, G., Maffei, N., Young, D.A., **Rubeli, B.**, (Natural Resources Canada)
- **Continuous DPM Monitoring**, Wayne Hose, (Pinssar Group)

12:35 HEALTH BREAK

13:00 SESSION 2: MINING REGULATIONS AND STANDARDS DEVELOPMENT

CHAIRPERSON: Amelie St-Onge Deschamps, (CanmetMINING)

- **CSA standards update: M424 mobile equipment**, Tania Donovska, (CSA Group)
- **Diesel fuels update and development**, Jamie Novis, (Suncor Energy)
- **2021 Mining Consultation on Proposed Changes to Regulation 854 (Mines and Mining Plants) under the Occupational Health and Safety Act (OHSA).** Glenn Staskus, (Ontario Ministry of Labour)

14:45 ADJOURNMENT

WEDNESDAY, December 1, 2021

<https://youtu.be/43DaKdwjiEE>

10:00 WORKSHOP: ALTERNATIVE ENERGY TECHNOLOGIES
CHAIRPERSON: Kristie Tarr, (Director, CanmetMINING)

Session 1

a) **Replacing conventional diesel-based vehicle with Hydrogen-based FCEVs**
Pejman Nekoovaght, (CanmetMINING)

b) **Code/standards/regulations of the use of Hydrogen in mining**

- **Canada's Hydrogen Landscape**, Mr. Mark Kirby, Canadian Hydrogen and Fuel Cell Association (CHFCA)
- **The State of Codes, Standards, and Regulations for Hydrogen in the Mining Industry**, Mr. Gordon Rymal Smith, Change Energy Services

Session 2

a) **"Holistic overview of cost impacts in Battery Electric versus Diesel-powered equipment selection"**, Ian Loomis , Technical Director, Ventilation, Worley, USA

12:30 ADJOURNMENT