



Four Points Sheraton, Toronto, Ontario,  
Canada October 6th – 9th, 2025

**SUNDAY, OCTOBER 5, 2025**

**17:00 - 19:00 CONFERENCE & WORKSHOP PRE-REGISTRATION & NETWORKING**

**17:00 – 20:00 EXHIBIT ROOM SET UP**

**MONDAY, OCTOBER 26, 2025**

**07:00 CONFERENCE REGISTRATION AND BREAKFAST**

**08:30 SESSION 1: CONFERENCE OPENING CEREMONIES:**

**Welcome:** *MDEC President Cheryl Allen (Vale)*

**Organization:** *Co-Chair MVPC Brent Rubeli (CanmetMINING)*

**Introduction of Keynote Speaker:** *J. Stachulak (MIRARCO)*

**Keynote Address:** S1P1 Keynote, “*The Future of Heavy-Duty Diesel Engines: Must we Achieve Zero Tailpipe Emissions?*”. Imad Khalek – Southwest Research Institute

**Scholarship:** *Co-Chair MVPC Brent Rubeli (CanmetMINING)*

**10:00 COFFEE BREAK**

**10:30 SESSION 2: CSA M424 Mining Standards Review:  
CHAIRPERSON: Brent Rubeli, (CanmetMINING)**

Presentation S2P1 – CSA M424 Mining Mobile Equipment / M421 Electricity in Mines Standards Review – V. Somasundaram (CSA Group)

Presentation S2P2 – M424.4 Electric Machines Revision Update – J. Le (CanmetMINING)

Presentation S2P3 – M424.3 Braking Performance Revision Update - G. Mahajan (CanmetMINING)

**12:00 LUNCH**

**13:00 SESSION 3: Diesel Emission Control Technologies I**  
**CHAIRPERSON: TBD**

Presentation S3P1 – Sintered Metal Filter for DPM and NO<sub>2</sub> control: Field Trial with Diesel Boom Truck – M. Mazzuca (Allied Reliability)

Presentation S3P2 – Development, Optimization and Long-term Evaluation of DPF Systems for the Underground Mining Industry – J. Stachulak (MIRARCO)

Presentation S3P3 – DPFi Technology Applications – G. Anderson (MineTerra)

**14:30 COFFEE BREAK**

**15:00 SESSION 4: Battery Electric Powertrain Technology**  
**CHAIRPERSON: Cheryl Allen (Vale)**

Presentation S4P1 – BEV Deployment Studies at Vale – S. Patel (Vale)

Presentation S4P2 – HudBay Mining BEV Field Study – J. Le (CanmetMINING)

Presentation S4P3 – Current BEV/EV Projects at the Cambrian College / Vale Electric Vehicle Lab – P. Wigmore (Cambrian)

**16:30 ADJOURNMENT**

**17:00 – 19:00 RECEPTION & NETWORKING**

**TUESDAY, OCTOBER 7, 2025**

**07:00 REGISTRATION AND BREAKFAST**

**08:30 SESSION 5: Topics in Mining Machine Design**  
**CHAIRPERSON: Kristie Tarr, (CanmetMINING)**

Presentation S5P1 – TBD

Presentation S5P2 – TBD

Presentation S5P3 – Centrifugal Separation of Fine Particulate Matter from Diesel Engine Oil – M. Mazzuca (Allied Reliability)

**10:00 COFFEE BREAK**

**10:30 SESSION 6: Mine Ventilation and Occupational Health Issues**  
**CHAIRPERSON: Kyle Watson (MLISTD)**

Presentation S6P - Impact of Ontario's amendment of airflow rate for diesel equipment used underground on ventilation system design of greenfield project - P.A Gomez (CGM Expert)

Presentation S6P2 – Implementation of CANMET Ventilation Rates – R. Tiangco (Vale)

Presentation S6P3 – DPM Management with Realtime Monitoring – C. Methe (Accutron)

**12:00 LUNCH – Introduction of sponsors and awarding of door prizes**

**13:00 SESSION 7: Occupational Health and Safety Research**  
**CHAIRPERSON: TBD**

Presentation S7P1 – Filtration of Fine Particle Exhaust Emissions from Various Diesel Fuel Types  
 – G. Anderson (MineTerra)

Presentation S7P2 – Occupational Health and Safety Related to Particle Exposure – Andre Gauvin  
 (OHCOW)

Presentation S7P3 – TBD

**14:30 COFFEE BREAK**

**15:00 SESSION 8: Diesel Emission Control Technologies II**  
**CHAIRPERSON: TBD**

Presentation S8P1 – TBD

Presentation S8P2 – DPF Systems – R. Deayton (Mammoth)

Presentation S8P3 – Low NOx Emissions Control – M. Massoudi (Emissol)

**15:45** MDEC Plenary Consultation, Brent Rubeli (Co-Chair MVPC)  
 Summary of comments from MDEC 2024 survey  
 Review of MDEC 2025  
 Plans for MDEC 2026 and Final Remarks

**16:00 ADJOURNMENT**

**WEDNESDAY, OCTOBER 8, 2025**

**07:00 – 08:00 WORKSHOP REGISTRATION & BREAKFAST**

**08:00 – 16:30 WORKSHOP: CURRENT AND FUTURE FUELS FOR MINING: DIESEL,  
 ELECTRICITY, AND HYDROGEN**

Presentation WP1 – Mining Diesel Fuel Properties and Applications – J. Novis (SUNCOR)

Presentation WP2 – Diesel Fuel Additives – B. Rubeli (CanmetMINING)

**10:00 COFFEE BREAK**

Presentation WP3 – Mine Energy Analysis and Electrical Power Supply, Distribution and  
 Consumption. – M. Levesque (CanmetMINING)

Presentation WP4 – Electrical Infrastructure Planning and Design for BEV Charging and  
 Operations – E. Acuña (CanmetMINING)

**12:00 LUNCH**

Presentation WP5 – Hydrogen Fuel for Mining Applications – P. Nekoovaght (CanmetMINING)

Presentation WP6 – TBD

**THURSDAY, OCTOBER 9, 2025**

**08:30 – 16:30 WORKSHOP: AMBULANCE ELECTRIFICATION (NLA- FULLY BOOKED)**  
 Held at the CSA Safe and Adaptive Workforce Week, Delta Hotel Toronto 655 Dixon Rd.