



Four Points Sheraton, Toronto, Ontario,
Canada October 6th – 8th, 2026

MONDAY, OCTOBER 5, 2026

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

17:00 – 20:00 EXHIBIT ROOM SET UP

TUESDAY, OCTOBER 6, 2026

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: *Jozef Stachulak (MIRARCO)*

Keynote Address: *S1P1- Keynote-Topics in Occupational Exposure to Diesel Exhaust and an update on the SYNERGY program, Paul Demers, University of Toronto*

Scholarship Winner: *MDEC Management committee Jozef Stachulak (MIRARCO)*

10:00 COFFEE BREAK

**10:30 SESSION 2: Occupational Health and Safety Research
CHAIRPERSON:**

Presentation S2P1 – Breathable Particles in the Air and the Future of Measurement – K. Hedges (OHCOW)

Presentation S2P2 – Practical Advances in Measurement Including the Measurement of PM2.5 – J. Nelson (WSN)

Presentation S2P3 – Cancer, chronic obstructive pulmonary disease and ischemic heart disease in Ontario, Canada workers exposed to diesel engine exhaust – S. Ziambicki (UToronto)

12:00 LUNCH

13:00 SESSION 3 : Diesel Emission Control Technologies
CHAIRPERSON:

Presentation S3P1 – DPF Retrofit Systems – R. Deayton (Mammoth)

Presentation S3P2 – Engine Multifuel Compatibility for Diesel, Biodiesel and Renewable Fuels – I. Khalek (SwRI)

Presentation S3P3 – Cleaner Combustion, Lower Emissions and Reduced Fuel Costs for Existing Assets – T. Ross (HYGN Energy)

14:30 COFFEE BREAK

15:00 SESSION 4: Battery Electric Powertrain Technology
CHAIRPERSON:

Presentation S4P1 – Battery Electric Vehicle Design and Modeling – H. Blinn (Sandvik)

Presentation S4P2 – Energy Modelling for BEV LHD Vehicles – E. Acuna Duhart (CanmetMINING)

Presentation S4P3 – Vale BEV Implementation Update – S. Patel (Vale)

16:30 ADJOURNMENT

17:00 – 19:00 RECEPTION & NETWORKING

WEDNESDAY, OCTOBER 7, 2026

07:00 REGISTRATION AND BREAKFAST

08:30 SESSION 5: Electrification and Mining Processes
CHAIRPERSON:

Presentation S5P1 – Emerging Battery Chemistries TBD – P. Banks (NRC)

Presentation S5P2 – Evaluation of the Diminishing Returns of a Fully BEV Fleet Versus Electric Haul Trucks and Scoops: A Case Study – Eagle's Nest Project – P. Bermudez-Gomez (CGM Expert)

Presentation S5P3 – Biomining of Rare earth elements from Oil Sands Tailings – K. Joshi (York)

10:00 COFFEE BREAK

10:30 SESSION 6: Mine Ventilation and Occupational Health II
CHAIRPERSON:

Presentation S6P1 – Airborne Diesel Particulate measurement and control in underground mines – D. Rose (Pinassar)

Presentation S6P2 – Ultrasonic Diagonal Airflow Sensors (UDAS) - E. Acuna (CanmetMINING)

Presentation S6P3 – Diesel Exhaust Inhalation and Stress Response: A Mechanism for Systemic Health Impacts – E. Thompson – Health Canada

12:00 LUNCH – Introduction of sponsors and awarding of door prizes**13:00 SESSION 7: CSA M424 Mining Standards Review:
CHAIRPERSON:**

Presentation S7P1 – CSA M424 and M421 Standards Update – Vaishnavi Somasundaram (CSA Group)

Presentation S7P2 – CSA M424.4 – Self-propelled, electrically driven, non- rail-bound mobile machines for use in non-gassy underground mines – John Le (CanmetMINING).

Presentation S7P3 – M424.3 Braking Performance Revision Update - R. Tiangco (Vale)

14:30 COFFEE BREAK**15:00 SESSION 8: Battery Electric Powertrain Technology II
CHAIRPERSON:**

Presentation S8P1 – Sensors and Data Acquisition for BEV fieldwork – M. Pal (CanmetMINING)

Presentation S8P2 – Data Analysis Methodology for BEV/Diesel Field data – X. Zhenhuan (CanmetMINING)

Presentation S8P3 – TBD

**16:30 Final Plenary Consultation
4th Mining Vehicle Powertrain Conference (MVPC)-
Co-Chair MVPC Brent Rubeli (CanmetMINING)**
Summary of comments from MDEC 2025 survey
Review of MDEC 2026
Plans for MDEC 2027 and Final Remarks

17:00 ADJOURNMENT

THURSDAY, OCTOBER 8, 2026

07:00 – 08:00 WORKSHOP REGISTRATION & BREAKFAST**08:00 – 16:30 WORKSHOP: APPLICATIONS, EXPERIENCE AND TESTING OF DIESEL
EMISSIONS CONTROL TECHNOLOGIES**

Presentation WP1 – Retrofit DPF Technologies with VERT – R. Fraser (VERT)

Presentation WP2 – Ambient Air Quality Measurements TBD – D. Rose (Pinssar)

10:00 COFFEE BREAK

Presentation WP3 – Emissions Control System Testing Methods – G. Anderson (Mineterra)

Presentation WP4 – Operation and Calibration of Portable Gas Analyzers – Hanna Teams (ECOM)

12:00 LUNCH

13:00 WORKSHOP: DESIGN AND ENGINEERING OF DIESEL EMISSIONS CONTROL TECHNOLOGIES.

Presentation WP5 – Design principles of diesel emissions control technologies – Brent Rubeli (CanmetMINING)

Presentation WP6 – Selection and retrofit of diesel oxidation catalysts – Brent Rubeli (CanmetMINING)

14:30 ADJOURNMENT

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