



**Toronto Airport Marriott Hotel, Ontario, Canada
October 4 – 7, 2011**

SUNDAY, OCTOBER 2, 2011

13:45 – 14:00 Field trip, bus leaves hotel for Sudbury, and returns on Monday, October 3 by 17:00

TUESDAY, OCTOBER 4, 2011

07:30 – 08:30 WORKSHOP REGISTRATION

08:30 – 16:30 WORKSHOP “HEALTH EFFECTS AND DIESEL ENGINES”

18:00 - 20:00 CONFERENCE PRE-REGISTRATION & NETWORKING

18:30 – 22:00 EXHIBIT ROOM SET UP

WEDNESDAY, OCTOBER 5, 2011

07:30 REGISTRATION AND BREAKFAST

08:30 CONFERENCE OPENING CEREMONIES:

Welcome and Introduction, JP Ouellette (*Kubota Canada Ltd.*), Co-Chair MDEC Conference

Introduction of Keynote Speaker, David Young (*Natural Resources Canada*), Secretary & Treasurer MDEC

Keynote Address: Toxicology of diesel emissions, Dr. Renaud Vincent, Health Canada

Organization, Mahe Gangal (*Natural Resources Canada*), Co-Chair MDEC Conference

10:00 COFFEE BREAK

10:30 SESSION 1: AFTERTREATMENT SYSTEMS
CHAIRPERSON: Joe Stachulak (Vale)

Comparison of off-road specification EPA/CARB passively regenerated DPF to mine specification passively regenerated DPF, Paul Mackay, Bob Mojaverian, and John Stekar (*Catalytic Exhaust Products*)

Diesel emissions control systems evolution and optimization, Tom Roberts (*Airflow Catalyst Systems*)

Field evaluation of sintered metal filter systems at nickel mine, Aleksandar Bugarski and Emanuel Cauda (*NIOSH*) & Jozef Stachulak (Vale)

12:00 LUNCH

13:00 SESSION 2: HEALTH EFFECTS AND MONITORING

CHAIRPERSON: David Young (Natural Resources Canada)

Comparison of Proteomic Changes in Murine Macrophages Exposed to Diesel Exhaust Particles and Carbon Nanotubes, Prem. Kumarathasan, D. Das, S. Mohottalage, D. Breznan, S. Karthikeyan, E. Blais and R. Vincent (Health Canada)

Dominance of Nitrogen Dioxide Toxicity in the Biological Effects of Inhaled Diesel Exhaust, Subramanian Karthikeyan, Errol Thomson, and Prem Kumarathasan (Health Canada), Debbie Rosenblatt, Tak Chan, and Greg Rideout (Environment Canada) & Renaud Vincent (Health Canada)

Active On-board Diesel Exhaust Gas Monitoring – Vale, D.F. O'Connor (Vale), K. Villeneuve (Draeger Safety Canada), B. Fleury and R. Hill (Wireless Sensor Networks)

14:30 COFFEE BREAK

15:00 SESSION 3: REGULATORY UPDATES

CHAIRPERSON: John Stekar (Catalytic Exhaust Products)

Amendments to certain diesel provisions in Regulation 854 (Mines and Mining Plants) Update, Glenn Staskus (Ontario Ministry of Labor).

16:00 ADJOURNMENT

16:00 – 18:00 RECEPTION & NETWORKING

THURSDAY, OCTOBER 6, 2011

07:30 REGISTRATION AND BREAKFAST

08:30 SESSION 4: DIESEL EMISSION & MDEC PLENARY CONSULTATION

CHAIRPERSON: Mahe Gangal (NRCan)

Introduction of Keynote Speaker, Joe Stachulak (Vale)

Keynote Address: Reduction of Diesel Emissions in German Potash and Salt Mining, Dr. Heinrich Sönksen (K+S Aktiengesellschaft, Germany)

Plenary Consultation, Mahe Gangal (Co-Chair MDEC Conference)

Summary of comments from MDEC 2010

Review of MDEC 2011

Plans for MDEC 2012

Final remarks

10:00 COFFEE BREAK

**10:30 SESSION 5: BIODIESEL
CHAIRPERSON: Steve “Skinner” Forbush (Arch Coal)**

Emissions characterization of on-road heavy-duty engines operating with varying biodiesel blends and emission control systems, *Eric Meloche, Deborah Rosenblatt, Tak W. Chan, and Greg Rideout* (Environment Canada) – Presented by *Kevin Brown* (ECS)

Field experience with DPFs for off-road engines operating on biodiesel, *Paul Turpin*, Robin Hu, Joe Aleixo, and Shazam Williams (DCL International)

Isolated zone evaluation of biodiesel fuels, *Aleksandar Bugarski, Emanuele Cauda, Samuel Janisko, Larry Patts and Jon Hummer* (NIOSH) & *Troy Terrillion and Charles Westover* (Newmont USA)

12:00 LUNCH - introduction of sponsors and award of draw prizes

**13:00 SESSION 6: ROUNDTABLE FORUM REVIEW AND VENTILATION
CHAIRPERSON: JP Ouellette (Kubota Canada)**

Review of 2010 roundtable forum
- Tier 4 diesel engines and alternative power
- Emissions reduction and alternative technology

Key learning’s from the CAF VOD project, *Glenn Lyle and Keith Bullock* (CEMI), *Andrew Dasys* (Objectivity), *Stephen Hardcastle and Brent Rubeli* (NRCan)

14:30 COFFEE BREAK

**15:00 SESSION 7: ALTERNATIVE POWER
CHAIRPERSON: Brendan Black (DCL International)**

Consideration of clean diesel and alternative energies for underground production vehicles, *Marc Bétournay, Mahe Gangal, Brent Rubeli and Pierre Laliberté* (Natural Resources Canada), *Karim Zaghib*, (Hydro-Quebec) & *Andrei Tchouvelev* (A.V Tchouvelev and Associates)

Hydrogen mine introduction initiative – Relevant codes, standards and experience, *Andrei V. Tchouvelev* (A.V. Tchouvelev & Associates), *David Forrester* (AECOM Canada Ltd) and *Allan Coutts* (URS Safety Management Solutions, USA)

16:00 ADJOURNMENT

FRIDAY, OCTOBER 7, 2011

ROUNDTABLE FORUM

08:30	Advanced Engines and Fuels
10:00	COFFEE BREAK
10:30	Diesel Emissions and Control Technologies
12:00	ADJOURNMENT