



**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**

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