



**SHERATON PARKWAY, TORONTO NORTH, RICHMOND HILL  
OCTOBER 5 – 10, 2008**

**SUNDAY, OCTOBER 5, 2008**

**13:45 – 14:00 Sudbury field trip, bus leaves hotel main entrance, and returns on Monday by 19:30**

**TUESDAY, OCTOBER 7, 2008**

**07:45 – 08:30 Workshop Registration** (Vaughan Room)

**08:30 – 16:30 MDEC Short Course on Diesel Emissions & Control Technologies** (Vaughan Room)

**18:00 - 20:00 PRE-REGISTRATION & Networking** (at new location Grand Richmond Foyer)

**18:30 – 22:00 EXHIBIT ROOM SET UP** (Grand Richmond Salon AB)

**WEDNESDAY, OCTOBER 8, 2008** (Grand Richmond Salon CDE)

**07:30 REGISTRATION**

**08:30 CONFERENCE OPENING CEREMONIES:**

**Welcome and Introduction**, *Edward Richards (Engine Control Systems), Co-Chair MDEC Conference*

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

**Keynote Address on Health**, "Health Effects of Diesel Emissions", *Dr. Joe Mauderly (Lovelace, Respiratory Research Institute)*

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

**10:00 COFFEE BREAK**

**10:30 SESSION 1: EMISSION CONTROL TECHNOLOGIES**  
**CHAIRPERSON: John Blogg (Ontario Mining Association)**

Testing SMF diesel particulate filter in underground mining, *Frank Stephan (MANN + HUMMEL GmbH, Germany)*

Evaluation of an electrically regenerated sintered metal diesel particulate filter system in underground mine laboratory, *Aleksandar D. Bugarski, Emanuele Cauda, Samuel J. Janisko, Larry D. Patts, Jon A Hummer, and Steven E Mischler (NIOSH)*

Technology for a cleaner and safer mining environment, *Terry McDonald and Toney Arbaney (Dry Systems Technologies), copy of presentation not available*

**12:00 LUNCH - introduction of sponsors**

**13:00 SESSION 2: BIODIESEL**  
**CHAIRPERSON: John Stekar (Catalytic Exhaust Products)**

An overview of Henderson mine 's DPM program and the conversion to biodiesel, David Loring and Chris Rizzarda (Henderson Mine)

Off-road demonstration projects, John Karim (California Environmental Protection Agency)

Effects of biodiesel on aerosols in underground mine, Aleksandar D. Bugarski, Emanuele Cauda, Samuel J. Janisko, Larry D. Patts, Jon A Hummer, Steven E. Mischler (NIOSH)

**14:30 COFFEE BREAK**

**15:00 SESSION 3: DPM MONITORING & VEHICLE EMISSION**  
**CHAIRPERSON: David Young (NRCan)**

Mine Real-time DPM ambient monitoring, Stewart Gillies (Missouri University of Science and Technology)

Tail-pipe measurements of particulate emissions from LD vehicles with diesel engines: A direct comparison of five different measurement methods, Hans-Georg Horn and Robert C Anderson (TSI)

Emissions results from 2008 On-Highway Pickups, Steve 'Skinner' Forbush (Arch Coal)

**16:30 ADJOURNMENT**

**16:30 – 18:30 CASH BAR, RECEPTION & NETWORKING** (Grand Richmond Ballroom)

**THURSDAY, OCTOBER 9, 2008** (Grand Richmond Salon CDE)

**08:00 REGISTRATION**

**08:30 Keynote Address on DPM:** "What we expect to find in underground DPM ambient monitoring",  
Dr. Stewart Gilles (Missouri University of Science and Technology)

**09:15 SESSION 4: DPM MONITORING & REGULATORY UPDATES**  
**CHAIRPERSON: Joe Stachulak (Vale Inco)**

Real-time DPM monitoring in underground mines, Michel Grenier , Kevin Butler, & Stephen Hardcastle (NRCan), Cheryl Allen & Colin McAnulty (Vale Inco) and Ron Pilon (USWA)

Diesel Emissions: Future regulations and control technologies, Addy Majewski (Ecopoint)

**10:15 COFFEE BREAK**

**10:40 SESSION 5: MDEC 2007 ROUNDTABLE FORUM REVIEW PANEL**  
**Moderator: John Vergunst (Ontario Ministry of Labour)**

**Panellists:** **DPM Regulation & Engine Certification** - Michel Grenier (NRCan)  
**Diesel Particulates** - Aleksandar Bugarski (NIOSH)  
**Lubricants and Fuels** – Brent Rubeli (NRCan)  
**Diesel Particulate Filters** - Alain Landry (Xstrata Nickel)

**12:00 LUNCH - award of draw prizes**

**13:00 SESSION 6: DIESEL PARTICULATE FILTERS**  
**CHAIRPERSON: Steve Forbush (Arch Coal)**

The search to identify reliable and rugged DPF system at Vale Inco, Joe Stachulak (Vale Inco),  
*copy of presentation not available*

Hybrid passive active diesel particulate filters, Kevin Brown (ECS)

An innovative and integrated safe DPF cleaning process, Shun Hong Long (ECS)

**14:30 COFFEE BREAK**

**15:00 SESSION 7: SECONDARY EMISSIONS**  
**CHAIRPERSON: Mahe Gangal (NRCan)**

NO<sub>2</sub> emissions from a diesel engine powered vehicle in underground mines, Emanuele Cauda,  
Aleksandar D. Bugarski, and Steven E. Mischler (NIOSH)

Double wall exhaust systems to reduce surface temperatures, John Botelho (Pipe in Pipe  
Exhaust Co.)

**16:00 SESSION 8: FINAL PLENARY CONSULTATION**

Final Plenary Consultation, Mahe Gangal (Co-chair MDEC Conference)  
Summary of comments from MDEC 2007  
Review of MDEC 2008  
Plans for MDEC 2009  
Final remarks

**16:30 ADJOURNMENT**

**FRIDAY, OCTOBER 10, 2008**

**ROUNDTABLE FORUM**

	<b>Room - Markham A</b>	<b>Room - Aurora</b>
<b>08:30</b>	<b>Diesel Particulate Filters</b> (selection, implementation, maintenance) <b>Facilitator: Michel Grenier (NRCan)</b>	<b>Fuels</b> (ultra low/low sulphur, alternative fuels) <b>Facilitator: JP Ouellette (Kubota)</b>
<b>10:00</b>	<b>COFFEE BREAK</b>	<b>COFFEE BREAK</b>
<b>10:30</b>	<b>DPM and NO<sub>2</sub> Issues in Mines</b> (measurement, instrumentation, control) <b>Facilitator: Aleksandar Bugarski (NIOSH)</b>	<b>Engine and Vehicles</b> (selection, maintenance, tuning for u/g mines, tier 2/3/4, hybrid vehicles) <b>Facilitator: John Vergunst (Ontario MOL)</b>
<b>12:00</b>	<b>ADJOURNMENT</b>	<b>ADJOURNMENT</b>