



**SHERATON PARKWAY, TORONTO NORTH, RICHMOND HILL
OCTOBER 1 – 5, 2007**

MONDAY, OCTOBER 1, 2007

13:45 – 14:00 Leave by bus for Sudbury field trip, return next day by 20:00

TUESDAY, OCTOBER 2, 2007

08:00 – 08:30 Workshop Registration (Markham Room)

08:30 – 16:30 MDEC Short Course on Engine and DPF Technology (Markham Room)

18:00 - 20:00 CONFERENCE PRE-REGISTRATION (York B & C Foyer)

18:30 – 22:00 EXHIBIT ROOM SET UP (York B & C Foyer)

WEDNESDAY, OCTOBER 3, 2007 (York B, C and Foyer)

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), Treasurer MDEC Conference*

Official Conference Opening, "Air Pollution, Climate Change, and Health Effects of Diesel Emissions", *Dr. Alan Abelson (University of Toronto)*

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

10:00 COFFEE BREAK

10:30 SESSION 1: ACTIVE DIESEL PARTICULATE FILTERS
CHAIRPERSON: Joe Stachulak (CVRD Inco)

Testing of a diesel particulate filter with active regeneration during vehicle Operation, *Frank Stephan (MANN + HUMMEL GmbH, Germany)*

An actively regenerated diesel exhaust particulate filter that demonstrates significant NO₂ reduction, *Frank S. DePetrillo, Osama M. Ibrahim, and Hans M. Wenghoefer (Rypos, Inc.)*

Diesel particle filters with active regeneration in mining – practical experiences from different mines, *Hans-Jörg Rembor (HUSS Umwelttechnik GmbH, Germany)*

12:00 LUNCH (Thorn Hill) Compliments of Hy-Drive Technologies - introduction of sponsors

13:30 SESSION 2: REGULATORY PERSPECTIVES AND GUIDANCE
CHAIRPERSON: Bob Hart (Hy-Drive Technologies)

MSHA's DPM rule for metal and nonmetal mines, George Saseen and William Pomroy (MSHA)

Effect of intake air with methane on diesel engine emissions with control technologies, *M. Gangal, B. Rubeli, D. Young (NRCAN), N. Paas (Dry System Technologies), and T. Robson (Quinsam Coal)*

14:30 COFFEE BREAK

15:00 SESSION 3: FIELD STUDIES
CHAIRPERSON: Manfred Duering (Cummins Inc.)

Examination of diesel aftertreatment systems at NIOSH Lake Lynn Laboratory, *Aleksandar D. Bugarski, George H. Schnakenberg, Jon A. Hummer, Emanuel Cauda, Samuel J. Janisko, and Larry D. Patts (NIOSH)*

The effects of depth on diesel engine emissions in an underground mine, *B. Rubeli, M. Gangal (NRCAN), and D. Counter (Xstrata Copper)*

An update on the retrofitting construction equipment project with emission control technologies, Michael C. Block (Emisstar LLC)

16:30 ADJOURNMENT

16:30 – 18:30 CASH BAR, RECEPTION & NETWORKING (York B & C Foyer)

THURSDAY, OCTOBER 4, 2007 (York B, C & Foyer)

08:00 REGISTRATION

08:30 SESSION 4: EMISSION CONTROL TECHNOLOGIES
CHAIRPERSON: Brent Rubeli (Natural Resources Canada)

Managing PM and NO₂ emissions, *Kevin Brown (Engine Control Systems)*

Diesel particulate filters - the safe approach to a project, case study, *D. O'Connor, M. Bond, C. Laroche, J. Stachulak (CVRD Inco Creighton Mine)*

Diesel particulate filters –USW perspective, *Peter Saal, and M. Bond (United Steelworkers 6500)*

10:00 COFFEE BREAK

10:30 SESSION 5: Ventilation
CHAIRPERSON: Cheryl Allen (CVRD Inco)

DPM research at university of Missouri-Rolla, an update, *Jerry Tien (University of Missouri-Rolla)*

Real-time optimized ventilation-On-demand, *Alexandre Cervinka (Newtrax Technologies) and Michel Massé (Simsmart Technologies)*

Designing and implementing an energy-efficient tunnel development ventilation system meeting the Increased diesel traffic required for the Niagara tunnel project, *Arun J. Basu (M&I Cogemacoustic Alliance), Mark M. Andersen, Patrick Oriez, and Bennoit Houseaux (ECE SA Cogemacoustic)*

12:00 LUNCH (Thorn Hill) - award of draw prizes

13:30 SESSION 6: BIODIESEL
CHAIRPERSON: Steve Forbush (Arch Coal)

Effect of biodiesel blended fuel on emissions of a diesel engine equipped with emission control technologies, *D. Young , M. Gangal, B. Rubeli, (NRCan), N. Paas (Dry Systems Technologies), and T. Robson (Quinsam Coal)*

Effect of biodiesel blended diesel fuel (B20) on diesel particulate filter behaviour, *Hannu Jääskeläinen and James S. Wallace (Department of Mechanical & Industrial Engineering University of Toronto)*

14:30 COFFEE BREAK

15:00 SESSION 7: OIL FILTRATION & FINAL PLENARY CONSULTATION
CHAIRPERSON: Mahe Gangal (NRCan)

High efficiency oil bypass filtration system keeps engine and hydraulic oil clean, *Kevin G. Kroger (PuraDYN Filter Technologies)*

Final Plenary Consultation, *Mahe Gangal (Co-chair MDEC Conference)*
 Summary of comments from MDEC 2006
 Review of MDEC 2007
 Plans for MDEC 2008
 Final remarks

16:00 ADJOURNMENT

FRIDAY, OCTOBER 5, 2007

ROUNDTABLE FORUM

	Room - Markham A	Room - Aurora
08:30	Diesel Particulates (nanoparticles, number, size, mass) Facilitator: Aleksandar Bugarski (NIOSH)	DPM Regulation & Engine Certification (coal, non-coal mines) Facilitator: Michel Grenier (CANMET-MMSL)
10:00	COFFEE BREAK	COFFEE BREAK
10:30	Diesel Particulate Filters (experience, regeneration, implementation) Facilitator: Alain Landry (Xstrata Nickel)	Lubricants and Fuels (low sulphur, biodiesel, alternative fuels) Facilitator: John Vergunst (Ontario Ministry of Labour)
12:00	ADJOURNMENT	ADJOURNMENT