



**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 (ECS), Co-chair MDEC Conference*

Introduction of Keynote Speaker, *David Young (NRCAN), Treasurer MDEC Conference*

Official Conference Opening, "Air Pollution, climate change, and health effects of diesel emissions", *Dr. Alan Abelsohn (University of Toronto)*

Organization, *Mahe Gangal (NRCAN/CANMET-MMSL), Co-chair MDEC Conference*

10:00 COFFEE BREAK

10:30 SESSION 1: ACTIVE DIESEL PARTICULATE FILTERS
CHAIRPERSON:

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 – Compliments of Hy-Drive Technologies (introduction of sponsors)

13:30 SESSION 2: REGULATORY PERSPECTIVES AND GUIDANCE

CHAIRPERSON:

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:

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:

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. Larochelle, 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:

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 - award of draw prizes

**13:30 SESSION 6: BIODIESEL
CHAIRPERSON:**

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 | Particulates (nanoparticles, number, size, mass) Facilitator: | DPM Regulation & Engine Certification (coal, non-coal mines) Facilitator: |
| 10:00 | COFFEE BREAK | COFFEE BREAK |
| 10:30 | Diesel Particulate Filters (experience, regeneration, implementation) Facilitator: | Lubricants and Fuels (low sulphur, biodiesel, alternative) Facilitator: |
| 12:00 | ADJOURNMENT | ADJOURNMENT |