



**SHERATON PARKWAY, TORONTO NORTH, RICHMOND HILL  
OCTOBER 10 – 13, 2006**

**TUESDAY, OCTOBER 10, 2006**

**08:30 – 16:30 MDEC Short Course on Diesel 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 11, 2006** (York B, C and Foyer)

**07:30 REGISTRATION**

**08:30 CONFERENCE OPENING CEREMONIES:**

Welcome and Introduction, *Edward Richards (ECS), Co-chair MDEC*

Introduction of Keynote Speaker, *David Young (NRCan), Secretary MDEC*

Official Conference Opening, "The Performance Mentor: A Framework for Exceeding Your Goals", *Marnie McBean (Director of Corporate and Athlete Programs, Olympic Spirit Toronto)*

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

**10:00 COFFEE BREAK**

**10:30 SESSION 1: EMISSION CONTROL TECHNOLOGIES**  
**CHAIRPERSON: Charles Graham (CAMIRO)**

DPM exposure control - An integrated approach, *G.H. Schnakenberg, Jr. (NIOSH Pittsburgh Research Laboratory)*

An overview of a retrofitting construction equipment project with emissions control technologies, *Glenn Goldstein and Michael C. Block (Emisstar LLC)*

Diesel particulate matter controls being utilized to meet the MSHA DPM standards, *George P. Saseen (MSHA)*

**12:00 LUNCH - introduction of sponsors (Vaughan Room)**

**13:00 SESSION 2: FIELD STUDIES**

**CHAIRPERSON: Bruce Conard (DEEP Management Board)**

Impact of Stobie testing on Inco's research program, *Joe Stachulak (Inco)*

Nanoaerosols in underground mines, *Aleksandar Bugarski (NIOSH Pittsburgh Research Laboratory)*

DEEP Sunset - The conclusion of a successful program, *Bruce Conard (DEEP Management Board)*

**14:30 COFFEE BREAK**

**15:00 SESSION 3: BIODIESEL**

**CHAIRPERSON: Mark Schultz (MSHA)**

Biodiesel and diesel particulate matter reductions, *Richard Nelson (National Biodiesel Board)*

The effect of biodiesel fuel blends on diesel particulate filter operation, *Hannu Jääskeläinen (University of Toronto), Lisa Graham (Environment Canada), Cara Baas (Environment Canada) and James S. Wallace (University of Toronto)*

DPM control strategies in two USA underground salt mines, *E.Z. Manos (Detroit Salt Company)*

**16:30 ADJOURNMENT**

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

**THURSDAY, OCTOBER 12, 2006** (York B, C & Foyer)

**08:00 REGISTRATION**

**08:30 SESSION 4: ENGINE TECHNOLOGIES**

**CHAIRPERSON: Steve Forbush (Arch Coal)**

Emissions: A Primer – From None to Tier 4, *Robin Ungar, (MTU Detroit Diesel)*

Characterization of particulate matter from a three-cylinder turbocharged diesel engines, *C.K. Venkatasubbramainam, M. Krishnamurthy, A. Thiruvengadam, D.K. Carder, and M. Gautam (West Virginia University)*

A diesel oxidation catalyst with a low T50 properties and a wide operating temperature range, *Joseph A. Holroyd (Air Flow Catalyst Systems)*

**10:00 COFFEE BREAK**

**10:30 SESSION 5: DIESEL PARTICULATE FILTERS & NO<sub>x</sub> CONTROL**

**CHAIRPERSON: Joe Stachulak (Inco)**

Testing of a Johnson-Matthey low-NO<sub>2</sub> DPF, *Darrick Zarlring (University of Minnesota)*

Progress in the development of a low-NO<sub>2</sub> CRT(R) system suitable for underground mining, *Alex Beavan, Claus Görsmann, Richard O'Sullivan, Joe Stevenson & Peter Werth (Johnson Matthey)*

Emissions performance of the longview: A combined DPF and NO<sub>x</sub> reduction catalyst system for underground mining applications, *Bradley L. Edgar and Michael Streichsbier (Cleaire Advanced Emission Controls), Les Freeman (Cummins Emission Solutions)*

An actively regenerated diesel exhaust particulate trap, *Frank DePetrillo, Amin Saeid, Zack Nardi (Rypos, Inc.)*

**12:00 LUNCH - award of draw prizes (Vaughan Room)**

**13:00 SESSION 6: REGULATORY PERSPECTIVES AND GUIDANCE**  
**CHAIRPERSON: Ted Tadrous (ECS)**

MSHA's 2006 final rule on the final DPM limit for underground metal and non-metal miners, *Doris Ann Cash (MSHA)*

Comparison of the respirable combustible dust (RCD) and the NIOSH 5040 methods in metal mines and in bus Garages, *Michel Grenier (NRCan) and Brigitte Roberge (IRSST)*

DPM reductions at underground metal and non-metal mines using alternative fuels, *Mark J. Schultz, Deborah M. Tomko, and Roger L. Rude (MSHA)*

**14:30 COFFEE BREAK**

**15:00 SESSION 7: SURFACE MINES**  
**CHAIRPERSON: Mahe Gangal (NRCan)**

Application of air pollution emissions equations to surface mining, *Jim Young (Senes Consultants)*

**15:30 SESSION 8: FINAL PLENARY CONSULTATION**  
**CHAIRPERSON: Mahe Gangal (NRCan)**

Strategic Direction of Mining Diesel Emissions Council (MDEC) Conference, *Edward Richards (MDEC Co-Chair)*

Final Plenary Consultation, *Mahe Gangal (MDEC Co-chair)*  
Summary of comments from MDEC 2005  
Review of MDEC 2006  
Plans for MDEC 2007  
Final remarks

**16:30 ADJOURNMENT**

**FRIDAY, OCTOBER 13, 2006**

**ROUNDTABLE FORUM**

	<b>Room - Markham A</b>	<b>Room - Markham B</b>
<b>08:30</b>	<b>Engine &amp; Vehicles</b> - New clean engines and impact on mines - Hybrid and electrical vehicles <b>Facilitator: JP Ouellette (Kubota)</b>	<b>Sampling Techniques &amp; TLVs</b> - Portable instruments - DPM sampling <b>Facilitator: Michel Grenier (CANMET-MMSL)</b>
<b>10:00</b>	<b>COFFEE BREAK</b>	<b>COFFEE BREAK</b>
<b>10:30</b>	<b>Training &amp; Maintenance</b> <b>Facilitator: Frank Voit (MASHA)</b>	<b>Control Technologies &amp; Alternative Fuels</b> <b>Facilitator: Aleksandar Bugarski (NIOSH)</b>
<b>12:00</b>	<b>ADJOURNMENT</b>	<b>ADJOURNMENT</b>