MINING DIESEL
mdec
EMISSIONS COUNCIL

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 (Markham Room)

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

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 Rizzardi (Henderson Mine)*

The application of biodiesel in two heavy duty haul trucks in a large Canadian mine, *Adam Levine (Canadian Bioenergy Corporation)*

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)*

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_2 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 CONSULTASTION

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

	Room - Markham A	Room - Aurora
08:30	**Diesel Particulate Filters** (selection, implementation, maintenance) **Facilitator: Michel Grenier (NRCan)**	**Fuels** (ultra low/low sulphur, alternative fuels) **Facilitator: JP Ouellette (Kubota)**
10:00	**COFFEE BREAK**	**COFFEE BREAK**
10:30	**DPM and NO_2 Issues in Mines** (measurement, instrumentation, control) **Facilitator: Aleksandar Bugarski (NIOSH)**	**Engine and Vehicles** (selection, maintenance, tuning for u/g mines, tier 2/3/4, hybrid vehicles) **Facilitator: John Vergunst (Ontario MOL)**
12:00	**ADJOURNMENT**	**ADJOURNMENT**