



**Hilton Toronto Airport Hotel, Ontario, Canada
October 5 – 8, 2010**

SUNDAY, OCTOBER 3, 2010

13:45 – 14:00 Field trip, bus leaves hotel, and returns on Monday, October 4 by 18:00

TUESDAY, OCTOBER 5, 2010

07:45 – 08:30 WORKSHOP REGISTRATION (Mississauga C)

08:30 – 16:30 Tier 4 Diesel Engines and Biodiesel Fuel

18:00 - 20:00 CONFERENCE PRE-REGISTRATION & NETWORKING (Mississauga Foyer)

18:30 – 22:00 EXHIBITS UP (Mississauga Foyer)

WEDNESDAY, OCTOBER 6, 2010 (Mississauga C)

07:30 REGISTRATION

08:30 CONFERENCE OPENING CEREMONIES:

Welcome and Introduction, JP Ouellette (*Kubota Canada Ltd.*), Co-Chair MDEC Conference

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

Keynote Address: Diesel exhaust – is a more complete view necessary, Dr. Dirk Dahmann, Institut für Gefahrstoff-Forschung (IGF), Institut an der Ruhr-Universität Bochum, Germany

Vote of Thanks: Joe Stachulak (Vale)

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

MDEC Scholarship, JP Ouellette (*Kubota Canada Ltd.*), Co-Chair MDEC Conference

10:00 COFFEE BREAK

10:30 SESSION 1: HEALTH EFFECTS

CHAIRPERSON: David Young (Natural Resources Canada)

Challenges in nanotechnology, nanotoxicology and nanosafety, *Renaud Vincent (Inhalation Toxicology Laboratory, Environmental Health Sciences and Research Bureau, Health Canada)*

Diesel particulate matter and cardiovascular risk, *Sandra Dorman (Laurentian University)*

A tiered approach to investigate the impact of pollution control technologies on the toxicity of diesel emissions, *Renaud Vincent, Subramanian Karthikeyan, Prem Kumarathanan, Errol Thomson, Dalibor Breznan, & Josee Guenette (Health Canada), and Debbie Rosenblatt & Greg Rideout (Environment Canada)*

12:00 LUNCH - introduction of sponsors (Mississauga B)

13:00 SESSION 2: AFTERTREATMENT FIELD TRIALS
CHAIRPERSON: Steve Forbush (Arch Coal)

Successful evaluation of DPF system at Creighton Mine, Joe Stachulak (Vale)

RYPOS HDPF filters on diesel equipment underground at the Detroit Salt Mine, Vio Mosincat (Detroit Salt Mine)

Emissions and performance of a retrofit urea-based selective catalytic reduction (SCR) system, Brent G. Rubeli (NRCan)

14:30 COFFEE BREAK

15:00 SESSION 3: ALTERNATIVE POWER
CHAIRPERSON: Alain Landry (Xstrata Nickel)

Hybrid Underground Loader 2010 Project Update, Marcel Demers, Denise Labelle, Randy Wilson, and Olli Matikainen (Mining Technologies)

High performance natural gas technology for mining and rail, Bruce Hodgins (Westport Power)

Underground electric trucks, David Willick (ABB Inc.)

16:30 ADJOURNMENT

16:30 – 18:30 RECEPTION & NETWORKING (Mississauga Foyer)

THURSDAY, OCTOBER 7, 2010 (Mississauga C)

08:00 REGISTRATION

08:30 SESSION 4: AFTERTREATMENT SYSTEMS
CHAIRPERSON: Evelyn Stirling (Cummins)

Oxidation catalysts in diesel engine applications, Tom Roberts (Airflow Catalyst)

Laboratory evaluation of diesel oxidation catalysts, John Stekar (Catalytic Exhaust Products), and Mahe Gangal, Brent Rubeli & David Young (NRCan)

Particulate filters without any additional components that deliver NO₂ reduction as a solution for NO₂ emission challenges, Hanspeter Mayer (PURltech GmbH & CO)

A further look at partial diesel particulate filters, Paul Turpin (DCL International)

10:00 COFFEE BREAK

10:30 SESSION 5: VENTILATION AND MONITORING
CHAIRPERSON: Joe Stachulak (Vale)

Real-Time DPM measurement as a maintenance tool – Australian experience, Peter Anyon
(*MicroCAD Australia Pty Ltd*)

Real-time diesel exhaust gas monitoring – Vale, D.F. O'Connor and C. L. Allen (Vale)

Ventilation on demand and air quality based control, Glenn Lyle, (Centre for Excellence In Mining Innovation)

12:00 LUNCH - award of draw prizes (Mississauga B)

13:00 SESSION 6: EMISSIONS REDUCTION
CHAIRPERSON: Addy Majewski (Ecopoint)

Role of DPM in DPF and DFE filtration process, Aleksandar Bugarski (NIOSH)

DPM sampling at Musselwhite mine, Farah Kassam (*Goldcorp Canada*)

Development of light weight alloys and their efficient manufacturing for automotive applications,
Kumar Sadayappan (CANMET-MTL)

14:30 COFFEE BREAK

15:00 SESSION 7: MDEC 2009 ROUNDTABLE FORUM REVIEW PANEL
Moderator: Michel Grenier (Natural Resources Canada)

Panellists: **Diesel Particulate Filters**, Aleksandar Bugarski (NIOSH)
 Fuels, Brent Rubeli (NRCan)
 DPM and NO₂, Addy Majewski (Ecopoint)
 Engine and Vehicles, John Vergunst Ontario Ministry of Labour)

16:00 SESSION 8: FINAL PLENARY CONSULTATION:

Final Plenary Consultation, Mahe Gangal (Co-Chair MDEC Conference)
Summary of comments from MDEC 2009
Review of MDEC 2010
Plans for MDEC 2011
Final remarks

16:30 ADJOURNMENT

FRIDAY, OCTOBER 8, 2010

ROUNDTABLE FORUM (Vista Salon Room)

08:30	Emissions Reduction & Alternative Technologies Facilitator: John Vergunst (Ontario Ministry of Labour)
10:00	COFFEE BREAK
10:30	Tier 4 Diesel Engines and Alternative Power Facilitator: JP Ouellette (<i>Kubota Canada Ltd.</i>)
12:00	ADJOURNMENT