

MINING DIESEL  
**mdec**  
EMISSIONS CONFERENCE

**EMBASSY SUITES HOTEL, MARKHAM, ONTARIO**  
**NOVEMBER 15 & 16, 2000**

**AGENDA**

**TUESDAY EVENING - November 14, 2000**

**18:00 – 20:00** PRE-REGISTRATION

**DAY 1 - WEDNESDAY - November 15, 2000**

**07:00** REGISTRATION

**08:00** CONFERENCE OPENING CEREMONIES:

Welcome on behalf of hosts & sponsors *Edward Richards (Lubrizol-ECS)*

Official opening of Conference  
(Mining Diesel Health and Safety R/D Perspectives) *Don Dainty (CANMET)*

Conference arrangements *Melody Edwards (Lubrizol-ECS)*

Announcements *Mahe Gangal (CANMET)*

**8:30** DEEP REVIEW SESSION:  
CHAIRPERSON - Bruce Conard (INCO)

Review of Diesel Emissions Evaluation Program (DEEP), *Bruce Conard (INCO)*

Particulate Matter Sampling Methods: Statistical Comparison, *Bruce Conard (INCO)*

Progress of Contribution of Light Duty Vehicles to U/G Emissions Project, *Michel Grenier (CANMET)*

Progress of Diesel Particulate Trap Evaluation at Brunswick Mine Project, *Sean McGinn (Noranda)*

**10:00** COFFEE BREAK

**10:30 TECHNICAL SESSION I - HEALTH STUDIES & REGULATIONS:  
CHAIRPERSON – Jennifer Penney (USWA)**

Health Effects of Diesel Emissions, *Joe Mauderly, Lovelace Respiratory Research Institute*

A Mortality Study of Lung Cancer and Diesel Exhaust among Non-metal Miners, *Michael Attfield (NIOSH)*

Trends in Diesel Emission Regulations and DPM Control, *Addy Majewski (Ecopoint)*

**12:00 LUNCH - introduction of all sponsors**

**13:00 PANEL I - CAN AN ENGINE MAINTAIN INITIAL CERTIFIED EMISSION RATES?  
CHAIRPERSON – John Vergunst (Ontario Ministry of Labour)**

Question: Once an engine has been certified how do we know that the engine emissions will remain the same once in service?

Introduction of Issues, *Gary Hrystak (Mine Mill/CAW)*

New and Replacement Engines, *Mike Meadows (Detroit Diesel)*

Rebuilding Engines, *Terry Harkness (Croman Division of Toromont)*

Effect of Emission Control Devices on Engine Performance, *Jaime Sauerteig (Deutz)*

Controlling Emissions with Maintenance, *Ray Ellington (Morton Salt)*

**Discussions**

**15:00 COFFEE BREAK**

**15:30 Panel II – IN MINE TESTING AND VERIFICATION:  
CHAIRPERSON – Pierre Thibault (QMA)/John Vergunst (Ontario Ministry of Labour)**

Question: How important is it to include underground emission testing after performing maintenance on the engine or emission control device?

Verifying Emissions after Maintenance, *Sean McGinn (Noranda)*

In Mine Testing: An Operator's Point of View, *Douglas Conklin and Joe Mazur (RAG American Coal Company, Cumberland Mine)*

In Mine Testing: Regulator's Point of View, *Robert Setren and Jeff Moninger (MSHA)*

**Discussions**

**17:00 ADJOURNMENT**

**17:00-19:00 CASH BAR, RECEPTION & NETWORKING at Displays**

## **DAY 2 - THURSDAY, NOVEMBER 16, 2000**

### **8:00 TECHNICAL SESSION II - DIESEL PARTICULATE MATTER (DPM) MEASUREMENTS: CHAIRPERSON – Addy Majewski (Ecopoint)**

Online Characterization of Nanoparticle Composition and Size, *Markus Kasper, Ulrich Matter (Matter Engineering AG) and H. Burtscher (Fachhochschule Aargau für Technik)*

Validation of Online Sensors for Monitoring Occupational Exposures from Diesel Engines, *Dirk Dahmann (IGF, Germany), T. Mosimann and Ulrich Matter (ETH, Switzerland)*

Effect of Altitude on Diesel Emissions, *Robert Setren and Jeff Moninger (MSHA)*

Investigating the Transport of Diesel Exhaust Fumes in Mines, *Stephen Hardcastle (CANMET)*

### **10:00 COFFEE BREAK**

### **10:30 TECHNICAL SESSION III – EMISSION CONTROL TECHNOLOGIES I: CHAIRPERSON – Brent Rubeli (DCL International)**

Characterization of Diesel Particulate Matter and Potential Health Effects, *Aleksandar Bugarski (NIOSH)*

Diesel Emissions Field Testing with Water-Blended Fuel and Oxidation Catalyst, *Paul Basar and Deborah Langer (Lubrizol)*

Fuel Cell Technical Update, *Marc Betournay (CANMET) and Arnold Miller (Fuel Cell Propulsion Institute)*

### **12:00 LUNCH – award of draw prizes**

### **13:00 TECHNICAL SESSION IV – EMISSION CONTROL TECHNOLOGIES II: CHAIRPERSON – Ted Tadrous (Lubrizol-ECS)**

Development and In-mine Field Trials of a Diesel Particulate Filter System with On-board, Electrical, Partial Flow Regeneration, *Brent Rubeli, Shazam Williams and Kamal Chowdhury (DCL International)*

Exhaust Emissions from a MWM-Deutz 916-6 Equipped with a DST Management System Under Steady-State and Transient Operation, *Steven Fritz (SWRI) and Norbert Paas (Paas Technologies)*

Combustion Additive Enhances Diesel Performance at Gull Bay, *Rene Mangal and J. Cocuzzi (Kinetrics Inc.)*

Magnetic Technology as Applied to Diesel Engines, *Al Akerman (INCO) and Brent Baiden (Avoca-Tec)*

### **15.00 COFFEE BREAK**

### **15:30 FINAL PLENARY CONSULTATION: CHAIRPERSON – Mahe Gangal (CANMET)**

- Summary presentation of comments received regarding last year's Conference; gathering of previously distributed comment sheets regarding this 2000 Conference.
- Announce date and place of year 2001 Conference
- Final Remarks

### **16:00 ADJOURNMENT**