

Information Notice No.2

UNECE Workshop on Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines

25 May 2011 at 9:00

Technopark UniScienTech, prospect Stroitel'yei 4, Karaganda, Kazakhstan

Introduction

In 2010 the UNECE Group of Experts on Coal Mine Methane (in the further text the Group of Experts on CMM), in cooperation with the Global Methane Initiative, published “Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines”. This publication, available in English, French, Russian, and Chinese, details the benefits, objectives and principles of coal mine methane drainage and utilization. Its primary aim is to reduce fatalities and injuries of mine workers. It also aims to protect mine property, reduce greenhouse gas emissions, and efficiently utilize valuable energy resources. Although these benefits are obvious, the value of the publication will be maximised only if its content is exposed to a wide and relevant audience that will subsequently adopt the best practices as a part of their normal course of coal mining.

Purpose of the Workshop

The workshop will disseminate the results of the “Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines” to a targeted audience in Kazakhstan. It will include representatives of mining institutions, governmental and regulatory bodies as well as coal mines that are at risk or have experienced CMM accidents. The workshop in Kazakhstan will build upon the experience gained at the occasion of the 2010 UNECE workshop on Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines in China. Equally it will be followed by a similar workshop later in Donetsk, Ukraine in 2011.

In Kazakhstan the Group of Experts on CMM will focus on the problems related to CMM that local mines are experiencing. It will analyse the key CMM safety issues and present options how to address them in a cost-effective way. Workshop presentations, report and other material will be available at UNECE website <http://www.unece.org/energy/se/cmm.html> after the workshop.

Date and venue

The registration for the workshop will start at 8:00 and the workshop at 9:00, on 25 May 2011 at:

TOO Technopark UniScienTech
prospect Stroitel'yei 4
100027 Karaganda, Kazakhstan
http://www.cett.kz/rus/affiliated/element.php?ELEMENT_ID=26#

Agenda & Timetable

International and national experts will review the key issues related to the best practice guidance on coal mine methane. The technical and others benefits as well as potential ways of adopting these practices within the existing and reorganized mining environment will equally be presented. The workshop will be executed as a combination of presentations, practical exercises and case studies:

8:45 – Welcome and housekeeping by the National Innovation Fund & UNECE

9:00 – **Why are we here today?**

Welcome and opening remarks

Ray Pilcher, Chair

The UNECE Ad Hoc Group of Experts on Coal Mine Methane

9:10 - **Introduction of participants (*Tour de table*)**

Questions provided by the facilitator

9:40 – **“Best practice guidance for effective methane drainage and use in coal mines”**

Overview of the UNECE publication, done in cooperation with the Global Methane Initiative, thanks to the support of the US Environmental Protection Agency

The publication details the benefits, objectives and principles of coal mine methane drainage and utilization.

Branko Milicevic, Secretary

The UNECE Ad Hoc Group of Experts on Coal Mine Methane

9:50 - **Findings of the survey on practices of Kazakh underground gassy coal mines**

- Dangerous gas and coal outburst conditions
- Ventilation schemes
- Drained methane utilization

Evgeny Alexeev, Consultant

The UNECE Ad Hoc Group of Experts on Coal Mine Methane

10:00 – Tea or coffee

10:30 - **Best practices in pre-mine drainage**

- Basic principle of methane drainage practices employed worldwide
- Globally-used mine pre-drainage techniques

Ray Pilcher, Chair

The UNECE Ad Hoc Group of Experts on Coal Mine Methane

11:00 - **Post-drainage drilling methods**

- Basics
- Drilling design
- Design of drainage system
- Case study

Dr. Erwin Kuntz, Technical Expert and member of the publication’s drafting group
DMT GbmH & Co.

11:30 - Current status of gas drainage and utilization of the gas at the mines of the Coal Division of ArcelorMittal Temirtau

Dr. Segazy Baymukhametov, Advisor on Modernization and Production Development
Coal Division of ArcelorMittal Temirtau

12:00 - Development of prediction techniques for prevention of spontaneous coal and gas outbursts, methods of reduction of gas content and danger of outburst from the coal seams

Baurzhan Hamimolda, Director

Kazakh State Research Institute for the Safety of Workers in Mines, Karaganda

12:30 - Discussion, Q&A, creation of breakout groups for the afternoon and distribution of questions/assignments to them (the groups will be seated together at lunch)

13:00 – Lunch

14:00 - Introduction of coal methane program of the National Innovation Fund of Kazakhstan

The National Innovation Fund has a special program to support R&D activities relevant to industrial application of effective technologies, including extraction and use of CMM/CBM

Ertay Kulzhabayev, Deputy Director

Karaganda Technopark “UniScienTech”

14:30 – Interface of CMM extraction systems with utilisation plant for electrical power or heat or flaring

- Methane extraction backpressure control systems
- Importance of maintenance of certain features of methane extraction plants to enable interface with utilisation
- Interface with the methane extraction plant in terms of pressure control
- Interface with the methane extraction plant in terms of process safety
- Gas treatment (difference between liquid ring and dry pump CMM gas delivery)
- Important instrumentation and monitoring

William Tonks, Senior Project Manager

HEL East Ltd

15:00 - Breakout sessions - Interactive discussion

Based on results of the survey the questions may include:

- Techniques for prediction/prevention of coal and gas outbursts applicable for local conditions;
- Pre-drainage technologies effective for low-permeability coal seams;
- Prediction of gas flows based on geological conditions and plan of mining operations;
- Financing of CMM collection and utilization projects;
- VAM utilization practice, etc.
- Scenario playing – “Provided there is financing, how would you prioritize/select/carry out projects and/or implement technologies?”

16:30 – Plenary - Groups report their discussions and findings, workshop conclusions

Working languages

To facilitate local participation as well as the active discussion on Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines and related exercises, there will be simultaneous Russian-English interpretation. Russian and English will be working languages of the workshop.

Registration of participants

Participants are encouraged to register in advance at the UNECE website (<http://www.unece.org/energy/se/cmm.html>). They also may choose to register in the morning of the day of the workshop at the premises of the Technopark UniScienTech.

Visas, transport and others

Participants requiring an entry Kazakh visa should contact as early as possible the nearest diplomatic representation of Kazakhstan dealing with visas. The UNECE, at their request, would be pleased to provide the invitation letter to attend the workshop to those participants.

The workshop organizers do not cover any transport or hotel accommodation expenses of the workshop.



UNECE

**Workshop
on Best Practice Guidance for Effective Methane Drainage
and Use in Coal Mines, Karaganda (Kazakhstan)
Wednesday, 25 May 2011**

REGISTRATION FORM

This registration form should be completed & returned to the following addressees:

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Programme Assistant
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CH-1211 Geneva 10, Switzerland
Tel: +41 22 917 2446 or
Fax: +41 22 917 0038
E-mail: liliane.mauranne@unece.org
www.unece.org

Please note that this one-day workshop is held for local participants and organizers. The workshop organizers do not cover any transport or hotel accommodation expenses.

FAMILY NAME:

FIRST NAME:

POSITION & ORGANISATION/COMPANY:

PROFESSIONAL ADDRESS :

TELEPHONE:

TELEFAX:

E-MAIL:

DATE:

SIGNATURE: