

## **Coal Mine Methane as a Valuable Energy Source**

*Hotel QUBUS, Nadwiślańska Street 6, Cracow, Poland*

*Agenda as of 26.02.2019*

**25-28 February 2019**

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### **Monday, 25 February 2019**

#### **Afternoon**

Arrival to Cracow and Registration in the Hotel

### **Tuesday, 26 February 2019**

#### **Morning (1 h)**

11:00 **Organizational Meeting / Preparation for the Workshop (for speakers only)**

*Room "Piano", Hotel QUBUS, Nadwiślańska Street 6, Cracow, Poland*

#### **Afternoon**

Networking meeting / Dinner (TBC)

### **Wednesday, 27 February 2019**

## **SEMINAR**

#### **Opening Part (10 mins)**

10:00 **Housekeeping and Introduction to the Workshop**

*Mr. Michał Drabik, Economic Affairs Officer, United Nations Economic Commission for Europe (UNECE)*

10:05 **Opening Speech**

*Mr. Łukasz Kroplewski, Vice- President, Polish Oil and Gas Company (PGNiG), President, International Centre of Excellence on Coal Mine Methane in Poland (ICE-CMM in Poland)*

#### **Case study of Colombia (1h 30 mins)**

10:10 **Is There Methane Gas Potential in Colombia? SGC Experience in Estimating CBM resources in the Country**

*Mr. Marco Rincon, Geologist, Colombian Geological Survey (SGC)*

10:25 **Current state of the Colombian Mining Sector and the Strategy for its Future Development**

*Ms. Gloria Catalina Gheorghe, Mine Safety and Rescue Manager, National Mining Agency (ANM)*

10:40 **Challenges Faced by Mining Licence Holders due to Methane Emanations during Underground Coal Mining Exploitation; A Case Study of Colombiana de Minerales.**

*Ms. Katerine Avila Acero, Operational Manager, Colombiana de Minerales*



**10:55 Obstacles to Development of the CBM Projects in Colombia Related to the Environmental Concerns of the Local Communities**

Mr. Marco Rincon, *Geologist, SGC*

**11:10 Foreign Experience of Developing CMM Projects in Colombia**

Mr. James Marshall, *Vice-President, Raven Ridge Resources Inc.*

**11:25 Security Challenges in Colombian Mines; Overview of Regulations Pertaining to the Mine Safety and Explosion Prevention**

Ms. Gloria Catalina Gheorghe, *Mine Safety and Rescue Manager, ANM*

**Coffee Break 11:40 – 12:00**

**International Experience Part I (1h 30 mins)**

**12:00 Polish Regulatory Framework on CMM/CBM; Estimating CMM Resources and Reserves – Polish Experience**

Mr. Jerzy Hadro, Mr. Janusz Jureczka, *Upper Silesian Branch, Polish Geological Institute - National Research Institute (PIG-PIB)*

**12:15 Estimating CMM Resources and Converting them to Reserves – US Experience**

Mr. James Marshall, *Vice-President, Raven Ridge Resources Inc.*

**12:30 The Efficiency of Capturing Methane During Mining Exploitation in Polish Conditions**

Mr. Marek Borowski, *Vice Dean, Faculty of Mining and Geoengineering, AGH University of Science and Technology*

**12:45 Polish Mine Safety Regulations Concerning Methane Hazard Prevention**

Mr. Henryk Koptoń, Mr. Arnold Przystolik, *GIG - Central Mining Institute*

**12:55 Overview of Ventilation Characteristics, Practices, and Regulations in Poland**

Mr. Eugeniusz Krause, Mr. Jacek Skiba, Mr. Bartłomiej Jura, *GIG - Central Mining Institute*

**13:05 Hybrid Underground Installation for Energy Processing and Recovering from Ventilation Air Methane Combustion in Mine Workings for Their Further Air Conditioning**

Ms. Joanna Łojewska, *Faculty of Chemistry, Jagiellonian University*

**13:15 Overview of Ventilation Characteristics, Practices, and Regulations in the US**

Mr. James Marshall, *Vice-President, Raven Ridge Resources Inc.*

**Signing of a Cooperation Agreement between PGNiG and PGG for Implementation of the Geo-Metan Project (40 mins)**

**13:30 Opening Statement**

Mr. Łukasz Kroplewski, *Vice-President PGNiG*

**13:33 Geometan Project - Presentation**

Mr. Janusz Jureczka, *Director, Upper Silesian Branch, PIG-PIB*



13:40 **Introduction to the Agreement between PGNiG and PGG**

Mr. Piotr Woźniak, *President, PGNiG*

Mr. Piotr Bojarski, *Vice-President, PGG*

13:50 **Signing of the Agreement between PGNiG and PGG**

Mr. Piotr Woźniak, Mr. Łukasz Kroplewski, *PGNiG*

Mr. Piotr Bojarski, Mr. Andrzej Paniczek, *PGG*

13:55 **Press Conference**

**Lunch Break 14:10 – 15:10**

**International Experience Part II (1h 15 mins)**

15:10 **Getting it Right: Policies that Provide a Solid Foundation for the Development of CMM/AMM and VAM Projects**

Ms. Meredydd Evans, *Senior Staff Scientist, Joint Global Change Research Institute, Pacific Northwest National Laboratory (PNNL)*

15:25 **The Economics of Successful Project Development**

Mr. Phil Kong, *Analyst, Advanced Resources International (ARI)*

15:40 **Gilowice Project as a First Step to Develop Pre-Mine Drainage Technology in Poland – update on activities, review of the latest results**

Mr. Janusz Jureczka, Mr. Jerzy Hadro, *Upper Silesian Branch, PIG-PIB*

Mr. Łukasz Kroplewski, *Vice- President, PGNiG, President, ICE-CMM in Poland*

15:55 **CBM Gilowice Project – Applied Fracturing Technology, and the Obtained Results**

Mr. Piotr Kasza, *Head, Reservoir Stimulation Department, Oil and Gas Institute - National Research Institute*

Mr. Janusz Jureczka, *Director, Upper Silesian Branch, PIG-PIB*

Mr. Łukasz Kroplewski, *Vice- President, PGNiG, President, ICE-CMM in Poland*

16:10 **Strategic Role of CMM in Climate Change Mitigation; US Policies Affecting CMM Capture and Use**

Mr. Phil Kong, *Analyst, (ARI)*

**Coffee Break 16:25 – 16:45**

**Presentation of the CMM/CBM Equipment (1 h 15 mins)**

16:45 **Strata Mechanics Research Institute of the Polish Academy of Science**

*New measurement devices for ventilation methane content monitoring*

Mr. Janusz Kruczkowski

Mr. Piotr Ostrogórski

17:00 **Micon**

Mr. Stefan Rygulski



17:15 **Carboautomatyka S.A.**  
Mr. Wojciech Anders, Mr. Tomasz Lic

17:30 **EXME Berger Group**  
Mr. Marcin Krawczyk

17:45 **Horus Energia**  
Mr. Maciej Ziółkowski

**Closing Part (5 mins)**

18:00 **Closing Remarks**  
Mr. Łukasz Kroplewski, *Vice- President, PGNiG, President, ICE-CMM in Poland*  
Mr. Michał Drabik, *Economic Affairs Officer, UNECE*

18:05 **End of Workshop**

**Thursday, 28 February 2019**

**Morning / Afternoon**

Departure