

## THE CZECH ACADEMY OF SCIENCES, INSTITUTE OF GEONICS

FINAL PROGRAMME OF INTERNATIONAL WORKSHOP



**Tuesday 23 April 2019**

**Conference hall, Institute of Geonics**

**| 9.00 - 10.00 am**

Arrival - Registration and Coffee

**| 10.00 - 10.15 am**

Invitation Session - Chair Petr Waclawik

Welcome: Dr. Josef Foldyna, Director, Institute of Geonics of the Czech Academy of Sciences

**| 10.15 - 12.30 pm**

**TECHNICAL SESSION I: ROCKBURST ISSUES, MEASURES**

**Jan Nemcik, University of Wollongong, Australia:** "Dynamic numerical modelling for the progressive development of coal burst phenomena adjacent to coal roadways"

**Petr Konicek, Institute of Geonics of the Czech Academy of Sciences:** "Destress Rock Blasting as a Rockburst Control Technique in hard coal underground mines"



**Matej Petruzalek, Institute of Geology of the Czech Academy of Sciences:** “The role of anisotropy in fracturing of rocks: laboratory acoustic emission study”

**Roger Byrnes, South32 - Illawarra Coal, Australia:** “Coal Bump experience at Appin Mine”

**| 12.30 - 2.00 pm**

Lunch time

**| 2.00 - 3.30 pm**

## **TECHNICAL SESSION II: ROADWAYS SUPPORT, GROUND CONTROL MONITORING**

**Zbigniew Lubosik, Stanisław Prusek, Andrzej Walentek, Aleksander Wrana, Główny Instytut Górnictwa, Katowice, Poland** “Optimisation of gateroad support at the depth more than 1000 m at hard coal mines”

**Piotr Malkowski, AGH University of Science and Technology, Krakow, Poland:** “New experience in roadway support monitoring”

**Petr Waclawik, Institute of Geonics of the Czech Academy of Sciences:** “Stress-deformation monitoring of coal pillars during room and pillar extraction at the great depth – final results”

**| 3:30 - 4.30 pm**

Discussion & Afternoon Tea, Coffee

**| 4.30 - 5.30 pm**

## **TECHNICAL SESSION III: GROUND CONTROL MONITORING, SIMULATION STUDY USING NUMERICAL MODELS**

**Dr. Sahendra Ram, CSIR-CIMFR, Dhanbad, India:** “Assessment of coal pillar behaviour at great depth using numerical models”

**Dr. Radovan Kukutsch, Institute of Geonics of the Czech Academy of Sciences:** “3D laser scanning as a complex tool for deformation monitoring”

**| 5.30 - 6.00 pm**

Discussion & Close of Workshop Technical Part



| 6.00 pm

Workshop social dinner

**Wednesday 24 April**

**Institute of Geonics**

| 9:00 - 10.00 am

Morning Tea & Coffee

| 10:00 - 12.00 am

Visit of research laboratories of Institute of Geonics:

- X-ray Computer Tomography Laboratory
- Water jet Laboratory
- Laboratory Research on Geomaterials



**Contact information:**

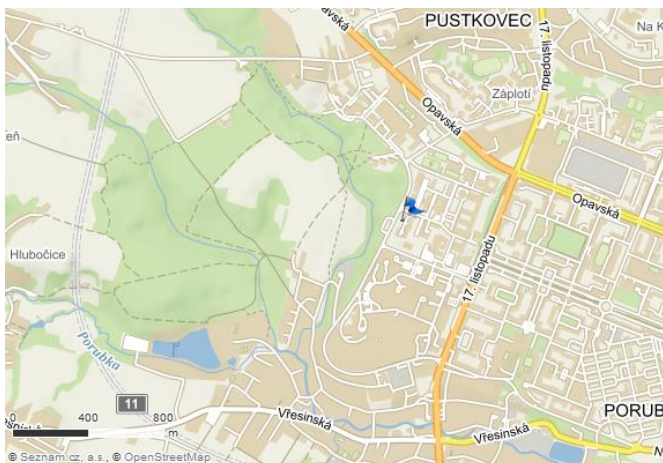
Institute of Geonics of the Czech Academy of Sciences

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On behalf of the organizing committee warmly invite you  
Petr Waclawik, Radovan Kukutsch, Sahendra Ram & Jan Nemcik

