

Congress Framework Programme

IMPORTANT

Due to safety considerations entry to the building and congress sessions is possible only after displaying congress identification badge and participation in accompanying events is possible after displaying an invitation!

Persons who during Congress stay in hotels: SHERATON, NOVOTEL CENTRUM, CRACOVIA, SASKI, DS ALFA and booked full fee accommodation via Biuro Orbis report for the Congress in their own hotels on 6 and 7th September 2008, where they receive ID badges and congress materials. On the remaining days the registration is made at Auditorium Maximum.

Registration of participants, who do not stay in hotels or have not made the congress payment
– Auditorium Maximum UJ (Krupnicza str.) – 7th September 2008 between 9:00 a.m. - 8:00 p.m.

Participation in banquets, lunches, dinners and coffee breaks is included into the congress fee excluding accompanying persons and students.

DAY 1

SUNDAY, 7TH SEPTEMBER 2008

4:00 pm

- **Congress Opening**

The Grand Hall, Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

6:00 p.m.

- **A preview of the art exhibition**

The Exhibition Hall, Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

- **Performance by the "Śląsk" Song and Dance Group**

The Grand Hall Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

- **Welcome Reception venue**

The Restaurant Hall (Level -1), Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

DAY 2

MONDAY, 8TH SEPTEMBER 2008

8:00 a.m. - 9:00 a.m.

- **Author's Breakfast** (Authors should leave their oral presentations)

Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

9:00 a.m. - 1:00 p.m.

- **Plenary Lectures**

The Grand Hall, Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

1:00 p.m. - 3:00 p.m.

- **Lunch**

The Restaurant Hall (Level -1), Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

3:00 p.m. - 6:30 p.m.

- **Plenary Lectures**

The Grand Hall, Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

6:30 p.m. - 8:00 p.m.

- **Dinner**

The Restaurant Hall (Level -1), Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

8:00 p.m.

- **Official parade from Auditorium Maximum of the Jagiellonian University starts**

8:30 - 10:00 p.m.

- **Entertainment show: mining traditions and a traditional miner initiation rite (called „Jump over a leather apron”) – The Main Square**



KRAKOW, CLOTH HALL

Congress Framework Programme

DAY 3 TUESDAY, 9TH SEPTEMBER 2008

9:00 a.m.

- Departure to World Mining EXPO 2008, Sosnowiec. Coaches depart from Auditorium Maximum, or Cracovia and Sheraton hotel
- Opening of Mining EXPO 2008 in Sosnowiec – a visit by Congress attendees
- Departure from Sosnowiec to Belchatow and Lubin (outgoing sessions)

DAY 4 WEDNESDAY, 10TH SEPTEMBER 2008

THE SESSIONS IN KRAKOW:

- Session 1: New technologies in mining
- Session 2: Methods of underground and open pit mining
- Session 3: Underground Mine Environment
- Session 4: Information technology in mining – SESSION SPONSORED BY:



- Session 5: Sustainable development in mining industry

TOPICS OF OUTGOING SESSIONS:

- Session 6: Coal mining – chances and challenges, Katowice,
- Session 7: Ore mining – trends and challenges, Lubin,
- Session 8: Open pit mining – trends and challenges, Belchatow,
- Session 9: The mine as a witness to history and a monument of technology, Wieliczka,
- Session 10: Legal aspects in mining activity – session organized by State Mining Authority, Katowice

TOPICS OF SATELLITE MEETINGS HELD IN KRAKOW:

- Session 11: 17th International Conference on Automation in Mining ICAMC'2008
- Session 12: Risk management & subsidence engineering
- Session 13: Contribution of Strata Mechanics to mining technology and work safety – International Symposium organized by the IBSM (International Bureau of Strata Mechanics)
- Session 14: Economics, management and design in the mining industry – SESSION SPONSORED BY:

PRICEWATERHOUSECOOPERS 

Congress and Accompanying Events Framework Programme

DAY 5 THURSDAY, 11TH SEPTEMBER 2008

- 9:00 a.m. - 11:30 a.m.
 - Mining industry – the present and the future, Part 1
- 9:00 a.m. - 11:30 a.m.
 - Mining industry – the present and the future, Part 2
- 11:30 a.m. - 12:30 p.m.
 - Poster Session
- 12.30 p.m. - 1.30 p.m.
 - Farewell concert
 - Congress closure ceremony
 - Lunch

DAY 6 FRIDAY, 12TH SEPTEMBER 2008

- 10:00 a.m. - 4:00 p.m.
Last opportunity to visit World Mining EXPO 2008 in w Sosnowiec



KRAKOW,
THE MAIN SQUARE,
A-B LINE

FRAMEWORK PROGRAMME OF ACCOMPANYING EVENTS

29th August - 18th September

- **Exhibition: Polish Mining in Photography**
(Planty Garden Ring, next to Bunkier Sztuki, Szczepańska str.)

7th - 11th September

- **Exhibition Marked with Coal – Silesian Artists of Mining Origin – paintings from the collections of non-professional art of the Silesian Museum in Katowice**
The Exhibition Hall, Auditorium Maximum of the Jagiellonian University, Krupnicza str.
- **Mining on Polish Postage Stamps – National Philatelist Exhibition Krakow 2008, postal cards printed for various occasions and date stamps**

7th September

- **7:00 p.m – Concert of Śląsk Song and Dance Group**
The Grand Hall Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

8th September – The Main Square

- **2:00 p.m. – Mining orchestras parade and concert**
- **8.30 p.m. – Performance "Jump over a leather apron" – Mining Traditions**
(Official parade from Auditorium Maximum of the Jagiellonian University starts at 8.00 p.m.)

9th September – ARS Film Centre, Św. Jana str. 6

- **5 p.m. – Performance of Kazimierz Kutz's film *Salt of the Black Earth (Sól ziemi czarnej)***

10th September – ARS Film Centre, Św. Jana str. 6

- **5 p.m. – Performance of Kazimierz Kutz's film *Pearl in the Crown (Perła w koronie)***

11th September – Grand Hall Auditorium Maximum of the Jagiellonian University (Krupnicza str.)

- **12.30 p.m. – Concert of Sinfonietta Cracovia Orchestra**

11th September – ARS Film Centre, Św. Jana str. 6

- **5 p.m. – Performance of Kazimierz Kutz's film *Beads of One Rosary (Paciorki jednego różańca)***

Congress Timetable

Time	21 st World Mining Congress						
	World Mining Expo Exhibition in Sosnowiec						
	Day 1 7.09	Day 2 8.09	Day 3 9.09	Day 4 10.09	Day 5 11.09	Day 6 12.09	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday		
8-9 a.m.		Breakfast for the speakers AM: PH & SeH				Last opportunity to visit World Mining EXPO 2008 in w Sosnowiec	
9-10 a.m.		Proceedings of the plenary session AM, GH	Departure from Kraków Couches depart from AM, Cracovia and Sheraton hotel	Proceedings of sessions in Krakow (AM, A-0 AGH) Proceedings of outgoing and satellite sessions	Survey lectures in sessions AM: MH A, MH B		
10-11 a.m.		Coffee break					
11 a.m. - 12 p.m.		Proceedings of the plenary session	Beginning of the Mining EXPO 2008 (ES)				Poster session AM: SH
12-1 p.m.		AM, GH	Visiting Mining EXPO 2008 (ES)				
1-2 p.m.		Lunch AM, RH (Level -1)	Lunch AM, RH (Level -1)	Lunch AM, RH (Level -1)	Farewell concert AM GH		
2-3 p.m.			Visiting Mining EXPO 2008 (ES)		Belchatów session departure – S8		Official closing of the Congress AM GH
3-4 p.m.			Proceedings of the plenary session AM, GH		Departure of Lubin Session – S7		Lunch AM, RH (Level -1)
4-5 p.m.	Opening AM, GH	Coffee break	Banquet at Spodek (SP)	Trip to Belchatów	Proceedings of sessions in Krakow (AM, A-0 AGH) Proceedings of outgoing and satellite sessions		
5-6 p.m.		Proceedings of the plenary session AM, GH					
6-7 p.m.	Exhibition AM, EH	Old Polish Dinner AM, RH (Level -1)					Return to Krakow
7-8 p.m.	Concert AM, GH						
8-9 p.m.			Official parade Start, AM, Krupnicza str.	Official dinner	Return of outgoing sessions to Krakow		
9 p.m. -	Banquet AM, RH (Level -1)	Jump over a leather apron MS					

LEGEND:

AM – Auditorium Maximum, Jagiellonian University, Krupnicza str.
GH – Grand Hall in AM
EH – Exhibition Hall, First Floor
RH – Restaurant Hall at AM, Level -1
MH – Medium Hall
MH A – A Part of Medium Hall

MH B – B Part of Medium Hall
MS – Market Square
ES – Expo Silesia, Sosnowiec, Braci Mieroszewskich str. 124
SP – Spodek, Katowice, al. W. Korfantego 35
SeH – Seminary Hall
PH – Portrait Hall

Session Identification

Wednesday – detailed session plan

Day 4, Wednesday, 10 th September															
Session	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	
Place	Auditorium Maximum						EMAG Katowice	KHGM Lubin	KWB Belchatów	Wieliczka	WUG Katowice	AGH A-0	Auditorium Maximum		
Room	GH A	GH B	SH	MH B	MH B	SeH					AGH	MH A	MH A	PH	
8-9 a.m.						Departure from Krakow	Technical trip (KGHM mines)	Session	Departure from Krakow	Departure from Krakow					
9-10 a.m.	Block A	Block A			Session	Session						Session	Session		Session
10-11 a.m.						Session		Coffee break	Session	Session					
11 a.m. - 12 p.m.	Block B	Block B	Block 3.3		Session	Session		Session			Session	Session		Session	
12-1 p.m.						Lunch			Lunch						
1-2 p.m.	Lunch AM, RH (Level -1)						Trip to mines	Session	Lunch	Session		Lunch AM, RH (Level -1)			
2-3 p.m.										Session					
3-4 p.m.	Block C	Block C	Block 3.2			Session	Visits: KWK Staszic, KWK Wieczorek, KD Barbara, EMAG		Coffee break		Session		Session	Session	
4-5 p.m.									Technical trip	Closing the session	Trip to GUIDO				
5-6 p.m.	Block D	Block D	Block 3.4	Block 3.1			Mining Picnic		Visiting Wieliczka	Visit to the historical mine GUIDO	Session		Session	Session	
6-7 p.m.								Dinner							
7-8 p.m.						Dinner									
8-9 p.m.	Banquet at Auditorium Maximum Jagiellonian University Krupnicza str.						Return to Krakow	Return to Krakow	Return to Krakow	Return to Krakow		Banquet at Auditorium Maximum Jagiellonian University Krupnicza str.			

LEGEND:

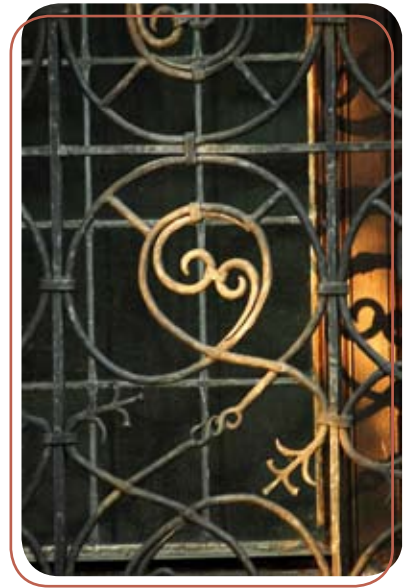
AM – Auditorium Maximum, Jagiellonian University, Krupnicza str.
GH – Grand Hall in AM
GH A – A Part of Grand Hall in AM
GH B – A Part of Grand Hall in AM
EH – Exhibition Hall, Level 1
RH – Restaurant Hall at AM, Level -1
MH – Medium Hall

MH A – A Part of Medium Hall
MA B – B Part of Medium Hall
SM – Small Hall
SeH – Seminary Hall
PH – Portrait Hall
AGH – Main Hall A-0, AGH University of Science and Technology
MS – Main Square

21ST WORLD MINING CONGRESS & EXPO 2008

7TH SEPTEMBER 2008
DAY 1, SUNDAY

Auditorium Maximum of Jagiellonian University, Krupnicza str.



4:00 P.M. – OPENING OF THE CONGRESS

Hosting: Agnieszka Wagner

The Grand Hall, Auditorium Maximum of the Jagiellonian University, Krupnicza str

- Message of the President of the Republic of Poland Lech Kaczyński to the Participants of the Congress, Secretary of State, Vice-Manager of the President's Office Piotr Kownacki
- Speech of the Minister of Economy or of a representative of the Ministry of Economy
- Speech of the Sub-secretary of State at the Ministry of Environment, Main National Geologist Henryk Jacek Jezierski,
- Speech of the Mayor of Katowice Piotr Uszok and Mayor of Sosnowiec Kazimierz Górski and Vice-mayor of Krakow Wiesław Starowicz
- Speech of the President of World Mining Congress Organization Józef Dubiński: 50 Years of World Mining Congress Organization
- Speech of the Polish President of Organizing Committee of World Mining Congress Piotr Buchwald,
- Speech of representatives of KGHM Polska Miedź S.A. – Golden Sponsor of the Congress and Minova International Ltd – Diamond Sponsor of the Congress
- Thanks for the Sponsors

6:00 P.M. – EXHIBITIONS

The Exhibition Hall, Auditorium Maximum of the Jagiellonian University, Krupnicza str.

- Exhibition Marked with Coal – Silesian Artists of Mining Origin – paintings from the collections of non-professional art of the Silesian Museum in Katowice
- Mining on Polish Stamps – National Philatelist Exhibition Krakow 2008, postal cards printed for various occasions and date stamps
- Exhibition: Polish Mining on Photos

7:00 P.M. – CONCERT OF ŚLĄSK SONG AND DANCE GROUP

The Grand Hall, Auditorium Maximum of the Jagiellonian University, Krupnicza str.

- Śląsk Ensemble prepared a special artistic programme for the participants of the Congress. They will present traditional Polish folk dances, Russian, Hindi, Ukrainian, Chinese dances and more...
- Welcome Reception
The Restaurant Hall (Level -1), Auditorium Maximum of the Jagiellonian University, Krupnicza str.

Plenary Session

8TH SEPTEMBER 2008
DAY 2, MONDAY

Auditorium Maximum of Jagiellonian University, Krupnicza str.

Plenary Lectures

1st Part, 9:00 a.m. - 1:00 p.m.

Chairman: **A.K. GHOSE**

Co-Chairman: **Kazimierz LEBECKI**

Secretary: **Eugeniusz J. SOBCZYK**

9:00-9:05 a.m. – Opening

9:05-9:25 a.m. – Magnus ERICSSON

Raw Materials Group, Stockholm, Sweden

Global Commodity Outlook and implications for the mining industry

9:25-9:45 a.m. – Tad SZWEDZICKI

AusWest Pty Ltd, Perth, Western Australia

Global trends impacting on the mining industry

9:45-10:05 a.m. – Xianzheng WANG

China National Coal Association, China

Development perspectives of China mining industry

10:05-10:25 a.m. – John E. TILTON

Colorado School of Mines, USA

Long Run Availability of Nonrenewable Mineral Resources

10:25-10:40 a.m. – Harald Lissberg

WIRTGEN, Poland – commercial presentation

10:40-11:00 a.m. – Coffee break

11:00-11:20 a.m. – Horst WAGNER, Günter TIESS

University of Leoben, Austria

Minerals Planning Policies and Supply Practices in Europe

11:20-1:40 a.m. – Jerzy BUZEK

Member of the European Parliament, Poland

European way towards zero emission carbon technology

11:40-12:00 a.m. – Ben PEACHEY

International Council on Mining and Metals (ICMM), United Kingdom

Sustainable Development for Sustainable Industry Growth

12:00-12:20 p.m. – Niall WEATHERSTONE

Committee for Mineral Reserves International Reporting Standards (CRIRSCO), United Kingdom
Standards for reporting of mineral Resources and Reserves- Status, Outlook and Important Issues

12:20-12:35 p.m. – Axel Bahr

Dräger Safety, Poland – commercial presentation

Mask with Drinking Device for Dräger Pss Bg 4

12:35-1:00 p.m. – Discussion

1:00- 3:00 p.m. – Lunch

2nd Part, 3:00- 6:30 p.m.

Chairman: **Leopold WEBER**

Co-Chairman: **Bolesław FIRGANEK**

Secretary: **Eugeniusz J. SOBCZYK**

3:00-3:20 p.m. – A.K. GHOSE

Indian School of Mines University, India

Sustainable development in world mining industry in the light of the New Delhi Declaration – NDD

3:20-3:40 p.m. – Ray DURRHEIM

CSIR and University of the Witwatersrand, Johannesburg, South Africa

Rock Engineering for Ultra-deep Mining - Research, Implementation and Responsive Regulation

3:40-4:00 p.m. – Pekka SARKKA

Helsinki University of Technology, Finland

Intelligent Mine Implementation

4:00-4:20 p.m. – Carsten DREBENSTEDT

Technische Universität Bergakademie Freiberg, Germany

Environmental Management – from Mineral Exploration to Mine Closure

4:20-4:35 p.m. – T. Jakubowski, R. Bednarz

The Famur Group, Poland

Meeting the Challenges of 21st Century Mining Famur Group

4:35-5:00 p.m. – Coffee break

5:00-5:20 p.m. – Michael KARMIS*, Scott KEIM**

(paper presented by **Hans E. Naumann****)

*Virginia Tech, Blacksburg, Virginia, USA

**Marshall Miller & Associates, Bluefield, Virginia, USA

The Future of Coal – a USA Perspective

5:20-5:40 p.m. – Maksymilian KLANK

European Association for Coal and Lignite, Poland

Future of Coal – from European Perspective

5:40-6:00 p.m. – R.N. SINGH*, A.S. ATKINS, D. MAMUREKLI***, M. MAMUREKLI***

*University of Nottingham, United Kingdom

**Staffordshire University, United Kingdom

***Celal Bayar University, Turkey

Review of the coal mining industry in the UK 2008

6:00-6:20 p.m. – Antoni TAJDUŚ, Marek CAŁA

AGH University of Science and Technology, Poland

Trends and Perspective of Polish Mining Industry

6:20-6:30 p.m. – Discussion

6:30 - 8:00 p.m. – Dinner

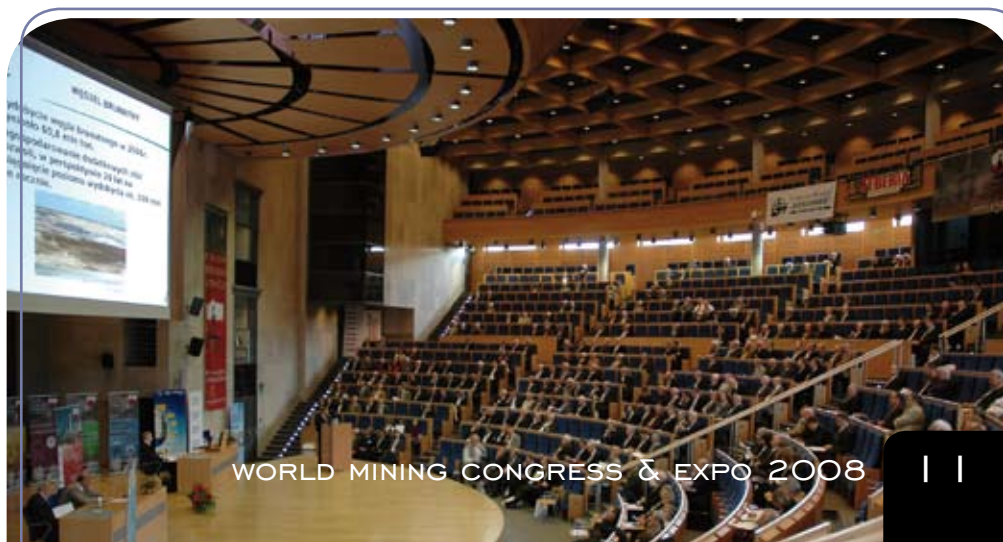
8:00 p.m. – Official parade from Auditorium Maximum of the Jagiellonian University starts

8:30 p.m. – Performance Mining Traditions – "Jump over a leather apron", The Main Square

The culmination point of the accompanying events to 21st World Mining Congress is an open air artistic event performed against the background of Cracovian market Mining Traditions – "Jump over a leather apron".

Event programme envisages evening parade of the participants of the Congress and invited guests in the light of the torches from the building of Auditorium Maximum of the Jagiellonian University to the Townhall in the Market Square where artistic performance showing the beauty of Polish and European mining traditions will take place.

AUDITORIUM MAXIMUM,
GRAND HALL



WORLD MINING CONGRESS & EXPO 2008

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9TH SEPTEMBER 2008
DAY 3, TUESDAY

World Mining Expo Exhibition,
Expo Silesia, Sosnowiec
Braci Mieroszewskich str. 124

9:00 A.M.

MEETING OF THE PARTICIPANTS OF EXTERNAL SESSIONS S8 (BEŁCHATÓW) AND S7 (LUBIN)

Main Hall, Auditorium Maximum of the Jagiellonian University, Krupnicza str.

9:15-10:00 A.M.

EVERY 15 MINUTES DEPARTURE OF COUCHES TAKING THE PARTICIPANTS OF THE CONGRESS TO WORLD MINING EXPO EXHIBITION IN SOSNOWIEC

Couches will be waiting at Auditorium Maximum of the Jagiellonian University, Krupnicza str. and at the same time at Cracovia and Sheraton hotels.

ATTENTION: boarding the couch and entering the exhibition is possible after displaying Congress Identification Badge!

10:00 A.M. - 4.00 P.M.

WORLD MINING EXPO EXHIBITION OPEN FOR VISITORS

11.00 a.m. -12:00 p.m. – official opening of the exhibition by Prime Minister Waldemar Pawlak with the participation of invited guests

12:00-12.30 p.m. – visiting exhibition by official delegation

1:00-3:00 p.m. – lunch for congress guests, Banquet pavilion

2:00 p.m. – Kopex company press conference

2:00 p.m. – **departure of S8 session to Bełchatów**

2:30 p.m. – **departure of S7 session to Lubin**

4:00 p.m. – departure of couches to Katowice (Spodek Hall)

4:30-7:00 p.m. – banquet for the participants of the Congress and Exhibitors on the invitation of the Mayor of Katowice Piotr Uszok. The programme includes:

- Performance of Female Brass Orchestra KWK „Staszic”
- Performance of Big Band of Rozrywka Theatre

7:00 p.m. – Departure of couches to Krakow

S8 (BEŁCHATÓW):

6:00 p.m. – Arrival in Bełchatów

7:00 p.m. – Accommodation

8:00 p.m. – Official dinner

S7 (LUBIN):

6:00 p.m.

– Arrival in Legnica and accommodation at Qubus hotel

Free time



Session 1

10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

NEW TECHNOLOGIES IN MINING

Chairman: **Hans E. NAUMANN**

Co-Chairman: **Piotr CZAJA**

Secretary: **Tomasz NIEDOBA**

GH A – A Part of the Grand Hall in AM

Auditorium Maximum of Jagiellonian University, Krupnicza str.

Block A: New technologies in mining – Equipment

9:00-9:15 a.m. – **Artur MAZUR**

DFM ZANAM-LEGMENT Spółka z o.o, Poland

Application of mechatronic system in wheel mine loaders

9:15-9:30 a.m. – **Martin JUNKER**

Ruhrkohle-AG, Germany

Intelligent Machines and Systems in the German Hard Coal Mining Industry

9:30-9:45 a.m. – **Emanuel Z. MANOS**

Detroit Salt Company, USA

Controlling diesel particulate matter exposures underground using Soy Bio-Diesel

9:45-10:00 a.m. – **A. A. REPIN, S. E. ALEKSEEV**

Institute of Mining, Siberian Branch, Russian Academy of Sciences, Russia

Air-Per percussion Reamer – Experience Practice and Future Prospects

10:00-10:15 a.m. – **Jörg ARLOTH, Armin HELLER**

PC-Soft GmbH, Siemens, M-Tec 2 GmbH, Germany

Technical management of conveying systems based on the example of the SIEMAG M-Tec² shaft hoisting system project at the Gotthard Base Tunnel

10:15-10:30 a.m. – **Discussion and comments**

10:30-11:00 a.m. – **Coffee break**

Block B: New technologies in mining – Extraction

11:00-11:15 a.m. – **K.N. TRUBETSKOY, YU.P. GALCHENKO, G.V. SABYANIN**

Institute of Problems of Complex Development of Bowels of the Earth of the Russian Academy of Sciences, Russia

Concept of subsurface development of bowels of the earth on the basis of "framework" geotechnology

11:15-11:30 a.m. – **G.G. PIVNYAK, Y.A. KYRYCHENKO, V.P. FRANCHUK**

National Mining University, Ukraine

Problems of deep-water hydraulic lifting of solid mineral resources

11:30-11:45 a.m. – **P. AFZAL, M. NIKZAD, D. KAVEH**

Islamic Azad University, Iran

Exploration of valuable evaporate minerals in Central Iran

11:45-12:00 a.m. – **P. VIHANTO, M. VANHANEN-RIEKKOLA**

Talvivaara Project Ltd., Finland

Talvivaara Mine Finland – Bioheap leaching of polymetallic Ni-ore in subarctic climate

12:00 a.m. - 12:15 p.m. – **V.V. NOVIKOV, A.V. KORZAKOVA**

EGONT Ltd., Russia

Alternative technology exploitation of mineral deposits

12:15-12:30 p.m. – **Garry G. LITVINSKY**

The Donets Basin State Technical University, Alchevsk, Ukraine

The scientific doctrine of manless mining "The 21st century Pit"

12:30-12:45 p.m. – **H. COPUR, C. BALCI, N. BILGIN, D. TUMAC**

Istanbul Technical University, Mining Engineering Department, Turkey

Laboratory cutting tests for performance prediction of chain saw machines

12:45-1:00 p.m. – **Discussion and comments**

1:00-3:00 p.m. – **Lunch**

Block C: New technologies in mining – Development

3:00-3:15 p.m. – **Anatoliy A. KOZHEVNIKOV, Anatoliy D. BEGUN**

National Mining University, Ukraine, "Volkovgeology" Co. Ltd, Almaty, Kazakhstan Republic

Well boring impulse technologies are the technologies of the 21st century

3:15-3:30 p.m. – **Tomasz BIAŁOŻYT, Wojciech BOCHENEK, Henryk PASSIA, Tadeusz SMOŁA, Adam SZADE, Mariusz SZOT**

Central Mining Institute, Poland

New developments of laser-based measuring equipment for control of the condition of vertical and horizontal mine workings and structures in mining-affected areas

3:30-3:45 p.m. – **Sergo KHOMERIKI, Rudolf MIKHELSON, Hossein TUDESHKI, Davit KHOMERIKI, Stefan ROSSBACH, Khatia DZEBISASHVILI**

L.P.P.L. G. Tsulukidze Mining Institute, Georgia

Development of technology and creation of industrial explosives based on waste military ammunition

3:45-4:00 p.m. – **Volodymyr I. BONDARENKO, Volodymyr S. FALSHTYNSKIY, Roman O. DYCHKOVSKIY, Józef DUBIŃSKI, Jan WACHOWICZ**

(1-3) National Mining University, Ukraine, (4-5) Central Mining Institute, Poland

Parameters of the temperature distribution in the rock mass containing underground gas - generator

4:00-4:15 p.m. – **A.N. SHABAROV, N.V. KROTOV, D.V. SIDOROV, S.V. TSIREL**

Scientific Centre of Geomechanics and Mining Operations Problems of SPMI,

Saint Petersburg, Russia

Modern methods and means for solving forecast issues and prevention of geodynamic phenomena in collieries

4:15-4:30 p.m. – **Discussion and comments**

4:30-5:00 p.m. – **Coffee break**

Block D: New technologies in mining – Processing and education

5:00-5:15 p.m. – **Marek DOHNALIK, Jadwiga ZALEWSKA, Grażyna SIKORA**

Oil and Gas Institute, Krakow, Poland

3D Characteristics of Internal Pore Structure of Rock Samples Using X-Ray Microtomography

5:15-5:30 p.m. – **E. ZIMMERMANN, C. NIEMANN-DELIUS**

Department of Surface Mining and Drilling, Aachen University, Germany

Upgrading of low rank coals properties by microwave treatment

5:30-5:45 p.m. – **D. JENIĆ, M. STJEPANOVIĆ, Z. STANISAVLJEVIĆ, D. GUZIJAN, P. GOLUBOVIĆ, B. DROBNJAKOVIĆ**

RTB – Bor, Engineering Academy (JINA), GEOING – Belgrade, IRMA – Belgrade, IRM – Bo, Serbia

Application of new technologies for discharging tailings from the open pit and flotation plants of the copper mine in RTB-BOR, Serbia for the purpose of improving the environmental protection

5:45-6:00 p.m. – **V.S. LITVINENKO, I.N. BELOGLAZOV, A.G. AFANASYEV, A.I. MIKHEYEV**

Mining Institute, Sankt Petersburg, Russia

Milestones of development of the Mining Institute

6:00-6:15 p.m. – **Antoni TAJDUŚ, Andrzej WICHUR, Piotr CZAJA**

AGH University of Science and Technology, Poland

Higher education at AGH-University of Science and Technology in Krakow for the needs of mining industry

6:15-6:30 p.m. – **E. GUCLU, İ.E. ONSAL, T. HUDAVERDI, C. KUZU, G. ONAL, G. OKTEN**

Istanbul Technical University, Mining Engineering Department, Turkey

The experimental pit project of the Faculty of Mines at Istanbul Technical University

6:30-6:45 p.m. – **Closing Session 1**

8:00 p.m. – **Banquet**

Auditorium Maximum Jagiellonian University, Krupnicza str., The Restaurant Hall (Level -1)

**10TH SEPTEMBER 2008
DAY 4 (WEDNESDAY)**

**GH B - B Part of the Grand Hall in AM
Auditorium Maximum of Jagiellonian University, Krupnicza str.**

Session 2

METHODS OF UNDERGROUND AND OPEN PIT MINING

Chairman: **Partha S. BHATTACHARYYA**

Co-Chairman: **Waldemar KORZENIOWSKI,
Stefan KUKIAŁKA**

Secretary: **Krzysztof SKRZYPKOWSKI**

9:00-9:15 a.m. – S. D. FLOOK, J. J. LEEMING

Sales & Marketing Director Joy Eurasia United Kingdom

Recent Developments In Longwall Mining Entry Development, and Room and Pillar Systems

9:15-9:30 a.m. – M.V. KURLENYA, V.I. KLISHIN, B. KUBANYCHBEK

Institute of Mining, Siberian Branch, Russian Academy of Sciences, Russia

Pressure control and top coal drawing by powered machine complexes in mining at thick coal seams

9:30-9:45 a.m. – P. CICMANEC, J. HRABOVSKI, J. DUROVE

Upper Nitra Mines of Prievidza, Technical University of Kosice, Slovakia

Mechanized Mining of Might Coal Seams into Complicated Geological and Underground Conditions

9:45-10:00 a.m. – G. ÖNAL, F. BURAT

Istanbul Technical University, Faculty of Mines, Mineral Processing Engineering Department, Turkey

Boron mining and processing in Turkey

10:00-10:15 a.m. – W. KOZIOŁ, P. KAWALEC, A. KABZIŃSKI

AGH University of Science and Technology, Poland

Production of aggregates in European Union

10:15-10:30 a.m. – M. KONESHLOO

Technical University of Shahrood, Shahrood, IRAN
Modeling of the kaolin deposits and reserve classification challenges of Charentes Basin, France

10:30-11:00 – Coffee break

11:00-11:15 a.m. – A. MEDER, T. MAZUR-KIEWICZ

KOMAG Mining Mechanization Centre, Silesian University of Technology, Poland

Innovative Machines in the Conditions of Sustainable Development

11:15-11:30 a.m. – A. AGHAJANI BAZZAZI, M. OSANLOO, H. SOLTANMOHAMMADI

Department of Mining Engineering Islamic Azad University, Iran

Loading-haulage equipment selection in open pit mines based on fuzzy TOPSIS method

11:30-11:45 a.m. – R. ZIMRÓZ

Wroclaw University of Technology, Poland

Adaptive approaches for condition monitoring of mining machines

11:45-12:00 a.m. – J. M. CZAPLICKI

Silesian University of Technology, Poland

The analysis and calculation procedure for shovel-truck systems with a crusher and conveyors

12:00-12:15 p.m. – W. KAWALEC

Institute of Mining Engineering, Wroclaw University of Technology, Poland

Modeling of transportation costs for alternative Life-Of-Mine plans of continuous surface lignite mines

12:15-12:30 p.m. – W. BATKO, W. CIOCH

AGH University of Science and Technology, Poland

The New Method Diagnostics of Steelwork in Pit Shaft

12:30-12:45 p.m. – V.G. CHERVATYUK,

V.V. VASILYEV, V. V. BUZYLO, I.A. KOVALEVSKA

SC Pavlogradvugilla, Ukraine

The Modern Aspects Of The Anchor Fastening Use In The Environment Of Sc Pavlogradvugilla

1:00-3:00 p.m. – Lunch

3:00-3:15 p.m. – S.V. MUCHNIK, V.N. OPARIN

Institute of Mining, Siberian Branch, Russian Academy of Sciences, Russia

Experience and prospects of turbo-blasting at open-pit mines

3:15-3:30 p.m. – Z. ZHIYU, L. LONGFA, Y. ZHIQIANG, M. YANGANG

Kunming University of Science and Technology, China

Experimental study for improving the blasting effects of Baideng phosphorus open-cut by initiation in borehole sequence

3:30-3:45 p.m. – R. MIKHELSON, S. KHOMERIKI, D. KHOMERIKI, K. DZEBISASHVILI, H. TUDES-HKI, S. ROSSBACH

L.P.P.L.G. Tsulukidze Mining Institute, Georgia

The Computer Program of Designing Drilling and Blasting Operations in Open-cast mine

3:45-4:00 p.m. – P. K. SINGH, M. P. ROY, A. SINHA

Central Institute of Mining & Fuel Research, India
Study on the impact of opencast blasting on surrounding structures in environmentally sensitive areas

4:00-4:15 p.m. – A. SOFTIC, Z. BASIC, A. BRIGIC, E. LACIC

Brown Coal Mining Company Banovici, Bosnia and Herzegovina

Decrease Of Blasting Seismic Effects On Open Pits In Coal Mine „Banovići”

4:15-4:30 p.m. – T. KURAKAMI, J. YAMATOMI, R. SATO, Y. SAGAWA, S. MURAKAMI

Sumitomo Metal Mining Co. Ltd., Japan

Mining with Backfill at the Hishikari Mine, Japan

4:30-5:00 – Coffee break

5:00-5:15 p.m. – W. FANG-HAN, Y. ZHONG-LIANG, C. WEI-QIN

Changsha Institute of Mining Research, China
Theory of and Practice in Cemented Filling with Unclassified Tailings Structure Fluid.

5:15-5:30 p.m. – X. LI, Z. ZHOU, G. ZHAO, Z. Liu, Y. AZIMI, S.H. KHOSHROU, M. OSANLOO, K. SHAHRIAR

School of Resources and Safety Engineering, Central South University, China

Utilization of phosphogypsum for backfilling, way to relieve its environmental impact

5:30-5:45 – M. YUMLU

AMC Consultants Pty Ltd., Australia

Barricade Pressure Monitoring in Paste Backfill

8:00 p.m. – Banquet at Auditorium Maximum Jagiellonian University, Krupnicza str., The Restaurant Hall (Level -1)

Session 3

UNDERGROUND MINE ENVIRONMENT

10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

Small Hall / Medium Hall: Part- B
Auditorium Maximum of Jagiellonian University, Krupnicza str.

Blok 3.3: Ventilation & Mine Fires Small Hall

Chairman: **R.N. SINGH**
Co-Chairman: **Stanisław WASILEWSKI**
Secretary: **Marek BOROWSKI,**
Dariusz OBRACAJ

11:00-11:10 a.m. – Henryk BYSTRON

Central Mining Institute, Poland

The thermodynamic approach to the safety state assessment of a ventilation system of a deep mine using underground main fan

11:10-11:20 a.m. – Nikodem SZŁĄZAK, Dariusz OBRACAJ, Marek BOROWSKI

AGH University of Science and Technology, Poland

Methods for controlling temperature hazard in polish coal mines

11:20-11:30 a.m. – Stanisław WASILEWSKI

AGH University of Science and Technology, Poland

Development of gas hazard monitoring systems in polish hard coal mines

11:30-11:40 a.m. – Władysław CIERNIAK, Waclaw DZIURZYŃSKI, Andrzej KRACH, Janusz KRAWCZYK

Instytut Mechaniki Górniczej PAN, Poland

Distribution of velocity of flow of air in the inlet channel of a main fan

11:40-11:50 a.m. – Janusz KRUCZKOWSKI

Instytut Mechaniki Górniczej PAN, Poland

A system for continuous measurement of volumetric rate of unsteady flow of air in workings of deep mines

11:50-12:00 a.m. – Józef SUŁKOWSKI, Dariusz MUSIOŁ

Politechnika Śląska, Poland

Effect of bed splitting on fighting aerologic hazards in exploitation sections of hard coal mines

12:00-12:10 p.m. – AN VIJAY KUMAR SINGH, DURGA DUTT TRIPATHI, VIRENDRA KIMAR SINGH

Central Institute of Mining & Fuel Research, India

Evaluation of suitable technology for prevention and control of spontaneous heating/fire in coal mines

12:10-12:20 p.m. – WU CHAO, LI ZIJUN, YANG FUQIANG, GU DESHENG

School of Resources and Safety Engineering, National Research Center of Safety Science

and Technology for Metal Mines, Central South University, China

Risk forecast of spontaneous combustion of sulfide ore dump in a stope and controlling approaches of the fire

12:20-12:40 p.m. – Borys POBOROWSKI, Lachlan CUNNINGHAM

Solid Energy North, New Zealand

Managing the spontaneous combustion hazard in sub-bituminous underground coal mine

12:40-12:50 p.m. – Tomasz GRZYCHOWSKI

Silesian University of Technology, Poland

Hazard assessment based on fuzzy logic

12:50-1:00 p.m. – Discussion and comments

1:00-3:00 p.m. – Lunch

Blok 3.2: Ground control and rock bursts Small Hall

Chairman: **Ray DURRHEIM**
Co-Chairman: **Zenon PILECKI**
Secretary: **Jerzy KŁOSIŃSKI**

3:00-3:25 p.m. – Anatoly A. KOZYREV, Victor I. PANIN, Yuliya V. FEDOTOVA

Mining Institute KSC RAS, Apatity, Russia

The geodynamic evolution of the geological medium in the area of large-scale mining

3:25-3:40 p.m. – Grzegorz MUTKE

Central Mining Institute, Poland

Stability of the underground mine workings in the near-field zone of seismic events

3:40-3:55 p.m. – Augustyn HOLEKSA, Mieczysław LUBRYKA, Ryszard SKATUŁA, Zbigniew SZREDER

„JAS-MOS” COAL MINE, Poland

Exploitation of deposit 510/1 through longwall 22A in lot Z3 at “JAS-MOS” Coal Mine in the conditions of significant seismic activity Jas-Mos Coal Mine JSW S.A.

3:55-4:10 p.m. – G.I. GRUTSKO

Russian Academy Sciences, Russia

Multidisciplinary approaches in researches of methane out-bursts and explosions in coal mines

4:10-4:30 p.m. – Małgorzata WYSOCKA, Krystian SKUBACZ, Bogusław MICHALIK, Stanisław CHAŁUPNIK

Central Mining Institute, Poland

Radiation protection in Polish coal mines – system of

monitoring and control of the hazard

4:30-5:00 p.m. – Coffee break

Blok 3.4: Work Safety in Mining Small Hall

Chairman: **Shanti K. CHOWDHARY**
Co-Chairman: **Kazimierz LEBECKI**
Secretary: **Mariusz KAPUSTA**

5:00 - 5:10 p.m. – Yibo WANG

North China Institute of Science and Technology, China University of Mining & Technology, China

Wild application of nonlinear science will be important aspect in development of coal mine technology

5:10-5:20 p.m. – M. BAGINSKI

Central Mines Rescue Station, Poland

Autonomous respiratory protection equipment vs. provision of mining rescue services, protective emergency escape device - quality and efficiency

5:20-5:30 p.m. – J. PUKKILA, P. SÄRKKÄ

Helsinki University of Technology, Espoo, Finland

Risk assessment in underground mines

5:30-5:40 p.m. – B. NIEMIEC, P. ROSMUS, A. TROJNAR

Central Mining Institute, Poland

The indices for assessing effectiveness of safety management systems in Polish collieries

5:40-5:50 p.m. – R. SCHUMACHERS

Central Division of Occupational Health, Safety and Environment of RAG, Aktiengesellschaft, Germany

Mine safety – a fundamental success parameters for coal mining in Germany

5:50-6:00 p.m. – A. AGHAJANI, A. BAZZAZI, M. OSANLO, Y. AZOUNI

Department of Mining Engineering, Islamic Azad University, Iran

An empirical formula for fly rock prediction in Esfordi Phosphate Mine of Iran

6:00-6:10 p.m. – A. FISNE, G. ÖKTEN

Istanbul Technical University, Turkey

Occupational noise exposure assessment for underground coal mine workers in Turkey

6:10-6:20 p.m. – J. COLINET, J.P. RIDER, E.D. THIMONS

Niosh, USA

Controlling respirable dust in underground coal mines in the United States

10TH SEPTEMBER 2008 DAY 4, WEDNESDAY

Small Hall / Medium Hall: Part- B
Auditorium Maximum of Jagiellonian University, Krupnicza str.

Session 3

UNDERGROUND MINE ENVIRONMENT

6:20-6:30 p.m. – O. OZBAYZOGLU, S. KARAKAS

Middle East Technical University, National Boron
Research Institute, Turkey
Human fertility and Boron

6:30-6:40 p.m. – Al. L. CHOBANOV

ASSAREL – MEDET ISC, Bulgaria
*The company policy for providing of health and
safety labor conditions*

6:40-6:50 p.m. – J. MARTYKA

Central Mining Institute, Poland
*Safety culture in the process of improvement and
verification of safety management systems*

6:50-7:00 p.m. – K. LEBECKI, P. ROSMUS

Central Mining Institute, Poland
*Quantitative risk assessment of natural hazards in
mining based on EN-61508 methodology*

Blok 3.1: Methane Treatment Middle Hall B

Chairman: Jayne SOMERS

Co-Chairman: Jacek SKIBA

Secretary: Bartosz JURA

3:00-3:15 p.m. – Opening ceremony

Chairman: Jayne SOMERS (EPA), USA

Introduction into CMM activities

3:15-3:30 p.m. – Joachim BRANDT, Erwin KUNZ

DMT GmbH, Germany
*Gas Drainage in High Efficiency Workings in German
Coal Mines*

3:30-3:45 p.m. – Krzysztof CYBULSKI, Eugeniusz

KRAUSE, Krystian WIERZBIŃSKI, Poland
Central Mining Institute, Poland
*Modelling of methane concentration distribution
in the longwall environment in the air roadway
area*

**3:45-4:00 p.m. – Marek KWAŚNIEWSKI, Stani-
sław LASEK, Poland**

Faculty of Mining and Geology, Silesian University
of Technology; Katowice Coal Holding Company,
Murcki Colliery, Poland
*Numerical analysis of methane migration from floor
strata to a longwall face*

**4:00-4:15 p.m. – Andrzej TOR, Henryk BADURA,
Antoni JAKUBOW**

Jastrzebie Coal Mining Company, Poland
*Application of statistic predictions for evaluation of
methane inflow in longwall*

4:15-4:30 p.m. – A. ALEXEEV, B. GRYADUSHCHII

Institute for Physics of Mining Processes, Ukraine
Occurrence forms of methane in fossil coals

4:30-5:00 p.m. – Coffee break

5:00-5:15 p.m. – D.V. Rudakov & I.O. Sadovenko
National Mining University, Ukraine
*Modeling of Coalbed Methane Migration in Mined
Out Rocks*

**5:15-5:30 p.m. – Paweł BARAN, Stanisław
HOŁDA, Jan MACUDA, Adam NODZEŃSKI,
Ludwik ZAWISZA**

AGH University of Science and Technology, Poland
*Desorption of methane from selected lignite coals in
the aspect of processes of gas liberation from coal*

**5:30-5:45 p.m. – MA SHANGQUAN, Chen
XUEXI, Wang YIBO, Zhang CHAO**

Changsha Institute of Mining Research, China
*Experimental Study on Hole Sealing Technique for
mensurating gas content in Coal Seam*

5:45-6:00 p.m. – Discussion and comments

**8:00 p.m. – Banquet at Auditorium Maximum
Jagiellonian University, Krupnicza str.,
The Restaurant Hall (Level -1)**



KOPALNIA POMORZANY,
ZGH BOLESŁAW

fot. Krzysztof Boniecki – ZGH Bolesław

Session 4

INFORMATION TECHNOLOGY IN MINING

Chairman: **Magnus ERICSSON**
Co-Chairman: **Teodor WINKLER**
Secretary: **Jarosław TOKARCZYK**

9:00-9:15 a.m. – V.I. BONDARENKO, I.A. KOVALEVSKA, G.A. SIMANOVICH, O.I. KOVAL
National Mining University, Ukraine
Computer modeling of mine working close on movement of coal contained rocky massive

9:15-9:30 a.m. – Y.B. GRYADUSHCHIY, R.O. DYCHKOVSKYY, A. DYCZKO, V. V. RUSKYCH
National Mining University, Ukraine
Software Simulation in the thin coal seams mining

9:30-9:45 a.m. – P. AFZAL, R. ALVAN DARESTANI, D. KAVEH AHANGARAN
Hampa Behineh Consultant Engineers, Iran
3D Modeling and reserve evaluation of mineable coal seams in East Parvadeh coal deposit, Tabas, Central Iran

9:45-10:00 a.m. – N. DOBRIȚOIU, F. BUȘE, I.N. TIUZHĂIAN
University of Petrosani Romania, Romania
Numerical Model for Generating Hidden Surfaces Applicable in the Process of Field Knowledge

10:00-10:15 a.m. – M. MONJEZI, M. HESAMI, H. DEGHANI
Tarbiat Modares University, Iran
Pillar Stress Prediction in Bord and Pillar Method Using Artificial Neural Networks

SESSION SPONSORED BY:



10:15-10:30 a.m. – G. MASSACCI, V. DENTONI, B.D. RADWANER-BAK
University of Cagliari, Carpathian Branch, Italy,
Polish Geological Institute, Poland
Visual Impact of Surface Mining and Quarrying

10:30-10:45 a.m. – KRZYSZTOF KOMOROWSKI
IBM Poland
Does it matter in mining? Managing the change to achieve the value promised by the solution

10:45-11:00 Coffee break

11:00-11:15 a.m. – E. WIDZYK-CAPEHART, D. HAINSWORTH, J. CUNNINGHAM
CSIRO National Research Flagship, Minerals Down Under, QLD Centre for Advanced Technologies (QCAT), Australia
The Future Mine: CSIRO Transformational Advances in Ore Extraction and Sensing Technologies

11:15-11:30 a.m. – T. WINKLER, M. SCHMID
KOMAG Mining Mechanization Centre, Gliwice, Poland
Interactive 3D supports underground repair and maintenance of road heading machines and shearer loaders

11:30-11:45 a.m. – T. WINKLER, J. JASZCZYK, D. MICHALAK, J. TOKARCZYK
KOMAG Mining Mechanization Centre, Gliwice, Poland
Application of computer modeling and visualization

methods in the life cycle of mining machines and equipment

11:45-12:00 a.m. – Z. KOSZOWSKI, J. HORODECKI, J. SYRKIEWICZ
Centralny Ośrodek Informatyki Górnictwa S.A. Katowice, Poland
Computer-aided Production Planning Process in the Hard Coal Mining

12:00-12:15 p.m. – R. MICHALSKI*, A. DYCZKO**
*Konin Brown Coal Mine at Kleczew S.A., Poland
** Mineral and Energy Economy Research Institute of Polish Academy of Sciences, Poland
Decision-making support system in the area of costs' planning and execution of operational targets – case study exemplified by a brown coal mine

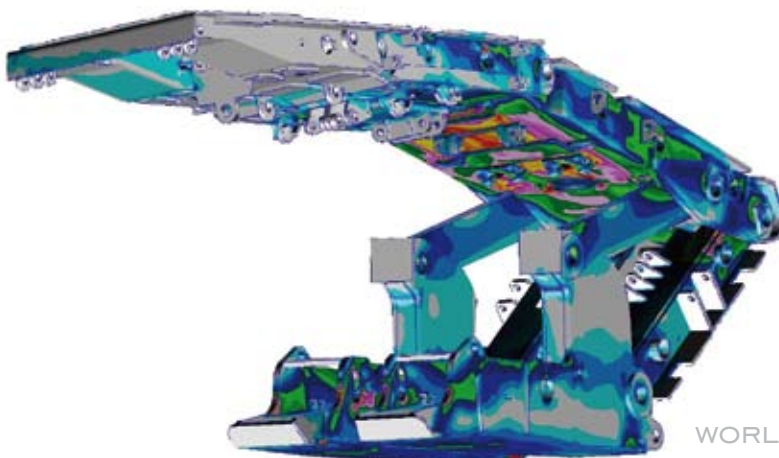
12:15-12:30 p.m. – K. HOŁODNIK, W. KAWALEC
Instytut Górnictwa Politechniki Wrocławskiej, Poland
The use of an integrated mining software environment demanded competency of a modern mining engineer

12:30-12:45 p.m. – Gurdeep SINGH, Arun Kumar SHUKLA
Indian School of Mines University, India
ENVIS Centre on 'Environmental Problems of Mining' (MIN-ENVIS)

12:45-1:00 p.m. – P. Wojtas, J. WOJCIECHOWSKI T. WAŁACH, D. CAŁA
Centrum Elektryfikacji i Automatykacji Górnictwa, EMAG, Katowice, Poland
Computer Science applied to central mine control station systems in the Polish Hard Coal Mines

1:00-3:00 – Lunch

8:00 p.m. – Banquet at Auditorium Maximum Jagiellonian University, Krupnicza str., The Restaurant Hall (Level -1)



10TH SEPTEMBER 2008
DAY 4 (WEDNESDAY)

The Seminary Hall
Auditorium Maximum of Jagiellonian University, Krupnicza str.

Session 5

SUSTAINABLE DEVELOPMENT IN MINING INDUSTRY

Chairman: **Viktor A. KHARCHENKO**

Co-Chairman: **Wiktoria SOBCZYK**

Secretary: **Anna Ostręga, Radosław POMYKAŁA**

9:00 a.m. – Opening ceremony: Co-Chairman Wiktoria SOBCZYK

Block 1

Chairman: **Monika HARDYGÓRA**

9:10-9:30 a.m. – Hana GILLAROVÁ

Czech University of Life Sciences of Prague, Faculty of Environmental Sciences, Czech Republic
Landscape memory as a solution of the ecological stability of the territory after mining

9:30-9:50 a.m. – Jorge GAVRONSKI

Companhia Riograndense de Mineracao, Brazil
Drifts for Electrical Power Generation in Brazil

9:50-10:10 a.m. – Vlasta LICKOVÁ, Karel HOUDEK, Miroslav MARTIŠ

Czech University of Life Sciences of Prague, Faculty of Environmental Sciences, Czech Republic
Evaluate of scenarios of renewal Lake Medard

10:10-10:30 a.m. – Nadil BERBIC, Amir BRIGIC, Admir SOFTIC

University of Tuzla, Bosnia and Herzegovina
Analyze and possibility of soil embankment and forest belt application as a noise barrier at open pit mine

10.30-11.00 a.m. – Coffee break

Block 2

Chairman **Nadil BERBIC**

11:00-11:20 a.m. – Nobuyuki MASUDA

Japan Oil, Gas and Metals National Corporation (JOGMEC), Japan
Applied technologies to prevent environmental risks after mine closure in Japan and future perspectives

11:20-11:40 a.m. – Monika HARDYGÓRA, Gabriela PASZKOWSKA, Helmut WOLFF

Wroclaw University of Technology, Poland

Introduction of the concept of an International Mining Programme in the educational environment of Central Europe

11:40-12:00 a.m. – Anatoly GALPERIN, Irina POSTNIKOVA, Alexander KRYUCHKOV

Moscow State Mining University, Russia
Nature preserving formation technologies and further use of man-made massives at KMA-region

12:00-12:20 p.m. – Iwona KUCZYŃSKA, Anna BEDNAREK, Danuta MARCINKIEWICZ, Tadeusz KOPERSKI

AGH University of Science and Technology, Ecology of Industrial Areas, Coal Mine „Halemba – Wirek”, Bituminous Coal Mine “Bielszowice”, Polish Hungarian Mining Joint Stock Co. Haldex, Poland
Some aspects of converting exploitation waste into marketable products

12:20-12:40 p.m. – Jan MACUDA, Ludwik ZAWISZA

AGH University of Science and Technology, Poland
Geochemical analyses of ground air within the hole exploitation of hard coal mine KWK “Morcinek”

12:40-1:00 p.m. – Urszula LORENZ, Zbigniew GRUDZIŃSKI

Mineral and Energy Economy Research Institute of Polish Academy of Sciences, Poland
Mercury emission and its content in hard and brown coal

1:00-3:00 p.m. – Lunch

Block 3

Chairman: **Jorge GAVRONSKI**

3:00-3:20 p.m. – Battista GROSSO, Marco CIGAGNA

Department of Geoengineering and Environmental Technologies, University of Cagliari, Italy

Tailing basins impermeabilization with electro-osmotic technique

3:20-3:40 p.m. – Zbigniew HALAT, Jan Józef HYCNAR

Max – Eko Sp. z o.o., Poland
Properties and utilization of drilling waste

3:40-4:00 p.m. – Miranda PTAK

Regional Mining Council, Wroclaw, Poland
The usefulness of selected scientific methods too solves the conflicts of face mining and regions Nature 2000

4:00-4:30 p.m. – Discussion and comments

4:30-5:00 p.m. – Coffee break

5:00-5:20 p.m. – Józef SUŁKOWSKI, Jan DRENDĄ, Zenon RÓŻANSKI, Paweł WRONA

The Silesian University of Technology, Poland
Noticed in mining areas, environmental hazard connected with outflow of gases from abandoned mines and with spontaneous ignition of coal waste dumps

5:20-5:40 p.m. – Andrzej ŚLĄCZKA, Zdzisław PISZCZYŃSKI

Silesian University of Technology, Poland
Effect of selected additives on the stability and rheology of Coal-Water Slurry Fuels (CWSF)

5:40-6:00 p.m. – Jan LUBAŚ, Marcin WARCHOŁ, Piotr KRĘPULEC, Tadeusz WOLNOWSKI

Oil and Gas Institute, Krakow, Poland
Greenhouse gas sequestration in aquifers saturated by natural gases

8:00 p.m. – Banquet at Auditorium Maximum Jagiellonian University, Krupnicza str., The Restaurant Hall (Level -1)

Session 6

COAL MINING – CHANCES AND CHALLENGES

Chariman: **Jan PALARSKI**
Co-Chairman: **Renata PATYŃSKA**

OUTGOING SESSION 10TH SEPTEMBER 2008 DAY 4, WEDNESDAY

EMAG
31 Leopolda str., KATOWICE

SESSION ORGANIZED BY:



SESSION SPONSORED BY:



7:45 a.m. – Meeting of the participants at the Main Hall of Auditorium Maximum of the Jagiellonian University, Krupnicza str.

9.45 a.m. – Arrival in Katowice

10:00-10:30 a.m. – **Opening lecture: Jan PALARSKI**
Silesian University of Technology, Poland
Global problems of the hard coal mining

10:30-10:45 a.m. – **M. MYSZKOWSKI, U. PASCH-EDAG**
Bucyrus DBT, Europe GnbH, Germany
Longwall mining in seams of medium thickness - comparison between shearer and plow

10:45-11:00 a.m. – **DOU LINMING, LI ZHIHUA, LU CAIPING, MU ZONGLONG**
State Key Laboratory of Coal Resource and Mine Safety, China University, China
Study of the Influence of Exploitation on Fault Rock Burst in Coal Mine

11:00-11:15 a.m. – **V.N. OPARIN, A.P. TAPSIEV, V.A. USKOV**
Institute of Mining, Siberian Branch, Russian Academy of Sciences, Russia
Challenges and new engineering solutions on modernization of underground productive mines

11:15-11:30 a.m. – **S.B. TULUB, G.G. PIVNYAK**
Ministry of Coal Industry of Ukraine, Ukraine
Problems Of Development Of Coal Industry Of Ukraine

11:30-11:45 a.m. – **Z. BĘDKOWSKI, D. KOT, J.KRODKIEWSKI, W. MIRONOWICZ, T. SIKORA**
Research and Development Centre for Electrical Engineering and Automation in Mining EMAG, Poland
Control And Monitoring Of Chosen Technological Processes In Coal Production

11:45-12:00 a.m. – **E. COZMA*, I. ONICA*, B. COZMA*, G. CHIRIL****
*University of Petroșani, Romania
**National Hard Coal Company Petroșani, Romania
Coal Mining In The Jiu Valley Basin - Achievements And Expectations

12:00-12:15 p.m. – **B.B. SENOKANE**
The Department of Systematic Theology and Theological Ethics, South Africa
The Eyes Of The Beholder. An Ethical-Social Perspective On New Challenges And Visions For Mining

12:15-12:30 p.m. – **Discussion (key-problems of hard coal mining)**

12:30-1:30 p.m. – Lunch
1:30-2:00 p.m. – Departure to Mines

2:00-5:30 p.m. – **Technical Visit in (optional):**
1. Underground coal mine: KWK Wieczorek Coal Mine, KWK Staszic Coal Mine
2. Experimental Mine "Barbara", Central Mining Institute
3. EMAG

6:00-8:00 p.m. – **Mining dinner Cottage under the Linden, „Dworek Pod Lipami”, Katowice Giszowiec**

8:00 p.m. – **Return to Krakow**

LUBELSKI WĘGIEL
BOGDANKA S.A.



phot. Adam Rachel

OUTGOING SESSION
10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

J. Wyżykowski Hall,
KGHM Polska Miedź S.A.
48 M. Skłodowskiej-Curie str., Lubin

9th September 2008

9:00 a.m. – Meeting of the participants at the Main Hall of Auditorium Maximum of the Jagiellonian University, Krupnicza str.

9:15 a.m. – departure for World Mining Expo 2008 (Sosnowiec)

11.00 a.m. - 2.30 p.m. – Visit to World Mining Expo 2008

2.30 p.m. – Departure of session World Mining Expo 2008

6:00 p.m. – Arrival in Legnica, accommodation at Qubus hotel

10th September 2008

8:00-12:00 a.m. – trip to the ore mines Lubin, Polkowice-Sieroszowice, Rudna (15 people groups) and the trip underground

12:00-12:30 p.m. – Reception

12:30-4:00 p.m. – Scientific session

12:30 p.m. – Opening of the session and welcome by the – President of the KGHM Polska Miedź S.A.

12:45-1:00 p.m. – Herbert Wirth

KGHM Polska Miedź S.A.

KGHM Polska Miedź S.A. leasing producer of copper and silver

1:00-1:15 p.m. – Li Aibing*, Zhou Amin*, Yin Yanbo*, Liu Zhengyu*, Zhou Ping*, Liu Lanming**, Chen Jiejing**, Yuan Jieping**, Yang Jingsheng**

*Changsha Institute of Mining Research, Changsha, China

**Hunan Shizhuyuan Nonferrous Metals Corporation, Chenzhou, China

The Caving Mining Safe Control Technology On The Multi-Mined-Out-Areas Conditions Of The Shizhuyuan Polymetallic Mine

1:15-1:30 p.m. – A.A. Eremenko*, V.A. Eremenko*, T.V. Lobanova**

*Institute of Mining, Siberian Branch, Russian Academy of Sciences, Novosibirsk, Russia

** OAO Eastern Scientific-Research Ore Mining Institute, Novokuznetsk, Russia

Decrement of Risk and Abatement of Natural and Technogenic Hazards when Mining Iron-Ore Deposits in Gornaya Shoria and Khakasia

1.30-1.45 p.m. – D.R. Kaplunov, M.V. Rylnikova, D.N. Radchenko

Research Institute of Comprehensive Exploitation of Mineral Resources, RAS, Russia

Intergrated technologies of ore dressing waste utilization for the efficient backfilling of mined – out areas

1:45-12:15 p.m. – Break

2:15-2:30 p.m. – Andrzej Rewak*, Dariusz Kubiak*, Janusz Reś**, Piotr Gospodarczyk**

*DFM ZANAM-LEGMET Ltd, based in Polkowice, Poland

**AGH University of Science and Technology in Kraków, Poland

Session 7

ORE MINING – TRENDS AND CHALLENGES

Chairman: **Herbert WIRTH**
Co- Chairman: **Janusz REŚ**
Secretary: **Wojciech KĘDZIA,**
Andrzej KATULSKI

SESSION ORGANIZED BY:

KGHM
POLSKA MIEDŹ S.A.

Self-Propelled Haulage Truck – WKPL 30HS With A Modified Drive System

2:30-2:45 p.m. – **Mohammad Karamoozian, Mohammad Reza Moghaddam**

University of Applied Science and Technology- Kerman- Iran

Flotation Circuit Control Using Latin Hypercube Simulation

2:45-3:00 p.m. – **Georgi Mihaylov**

University of Mining and Geology, Sofia, Bulgaria
Alternative Technological Solutions In Underground Ore Mining

3:00-3:15 p.m. – **Susumu Okabe, Jiro Yamatomi, Shinsuke Murakami**

The University of Tokyo, Tokyo, Japan
Production Scheduling for Open Pit Operations Considering Metal Price Changes

3:15-3:30 p.m. – **Jan Butra**

Mining of Copper Ores in Poland

3:30-4:00 p.m. – **Discussion**

4:00-4:30 p.m. – **Guests' presentations**

4:30 - 7:00 p.m. – **Mining picnic**

7:00 p.m. – **Return to Krakow**

KGHM POLSKA MIEDŹ S.A.



Session 8

OPEN PIT MINING – TRENDS AND CHALLENGES

Chairman: **Admir SOFTIC**
Co-Chairman: **Leszek TLAŁKA**
Secretary: **Paweł KRZYWORĄCZKA,**
Anna SOŁTYS, Józef LIMANÓWKA

OUTGOING SESSION 10TH SEPTEMBER 2008 DAY 4, WEDNESDAY

BOT KWB Bełchatów S.A.
3 Św. Barbary str., Rogowicz

SESSION ORGANIZED BY:



PGE KWB Bełchatów S.A.

9th September 2008

9:00 a.m. – Meeting of the participants at the Main Hall of Auditorium Maximum of the Jagiellonian University, Krupnicza str.

9:15 a.m. – departure for World Mining Expo Exhibition

11:00 a.m. – 2:00 p.m. – Visit to World Mining Expo Exhibition

2:00 p.m. – Departure of session to Bełchatów

7:00 p.m. – Arrival in Bełchatów, accommodation at the hotel

8:00 p.m. – Dinner

10th September 2008

7:00-7:45 a.m. – Breakfast

8:00-8:15 a.m. – Session opening

8:15-8:40 a.m. – Opening lecture (PGE)

8:40-8:55 a.m. – **Z. KASZTELEWICZ, J. KLICH, W. KOZIOŁ, M. ZAJĄCZKOWSKI, K. KOZIOŁ**
AGH University of Science of Technology, Poland
Lignite industry in Poland – prospects of development in 21st century

9:00-9:15 a.m. – **V. RAVIKUMAR, R. DEIVAM, R. PARAMASIVAM**
Nevveli Lignite Corporation Ltd., India
Neyveli lignite mining – technical development a case study

9:20-9:35 a.m. – **N. VALKANOV, IV. RUSINOV, N. BONEV, ST. TOPALOV, K. BOEV, S. TOKMAK-CHIEV**
Minstroy Holding, University of Mining and Geology, Bulgaria
A bilateral contract in power system from the European Union – tasks, challenges and prognoses

9:40-9:55 a.m. – **S. STRUNK**
RWE Power – Open cast mine Hambach, Germany

Optimizing the production of problematic overburden at the Hambach opencast mine

10:00-10:15 a.m. – **L. JURDZIAK**
Wroclaw University of Technology, Poland
Bilateral monopoly of a lignite mine and a power plant in the short run

10:20-10:40 a.m. – **Coffee break**

10:45-11:00 a.m. – **D. FODOR, M.LAZAR & I. ROTUNJANU, V.O. SCORTARIU, N. POPESCU**
University of Petrosani, Romania
Exploitation and revaluation of lignite deposits in Oltenia

11:05-11:20 a.m. – **S.YA. LEVENSON, L.I. GEND-LINA, YU. I. EREMenko**
Institute of Mining, Siberian Branch, Russian Academy of Sciences, Russia
Operational back-ground and the outlook for the vibration machine equipped with an elastic executor in the mining industry

11:25-11:40 a.m. – **A.R. MATTIS, V.I. CHESKIDOV, V. N. LABUTIN AND G. D. ZAITSEV, A.A. KRAGEI**
Institute of Mining, Siberian Branch, Russian Academy of Sciences, Russia
Blast-free technology for opencast mining technique and area of effective application

11:45-12:00 a.m. – **A. Ekrem Yüce, Fırat Burat, Fırat Karakaş, Mustafa Özer, Vecihi Gürkan, Güven Önal**

Istanbul Technical University, Turkey
Recovery of nickel and iron from Albanian lateritic Fe-Ni ore

12:05-12:20 p.m. – **Admir Softic, Suncica Masic, Zahid Basic, Amir Brigic**
Brown Coal Mining Company Banovici, Bosnia and Herzegovina
Optimum of height supplying – height of re-pumping with oscillation of the suction altitude and oscillation of capacity size of pump in experimental example on the Open Pit «Grivice»

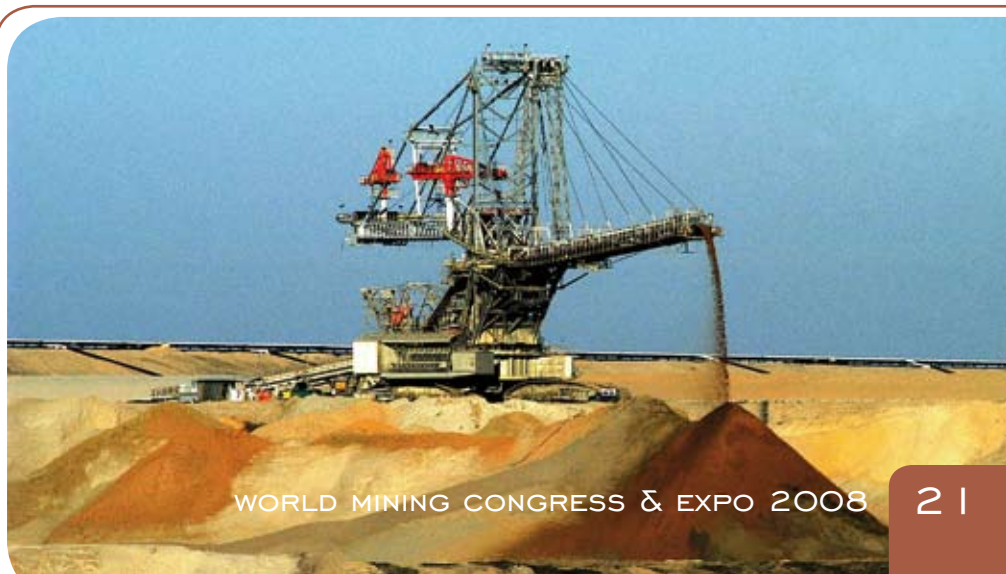
12:20-12:40 p.m. – **Josef Schild**
Diabaswerk Saalfelden GmbH, Saalfelden, Salzburg, Austria
The new Austrian diabase open pit project "Tagbau 21"

1:50-2:50 p.m. – **Lunch**

3:00-5:30 p.m. – **Visit in Brown Coal Mine BOT KWB S.A. and in Power Plant "Bełchatów"**

6:00-7:00 p.m. – **Diner**

7:30 p.m. – **Departure to Krakow**



OUTGOING SESSION
10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

Wieliczka Salt Mine
Daniłowicza str. 10, Wieliczka

Session 9

THE MINE AS A WITNESS TO HISTORY AND A MONUMENT OF TECHNOLOGY

Chairman: **Bronisław BARCHAŃSKI**
Co-Chairman: **Antoni JODŁOWSKI**
Secretary: **Michał KOPACZ,**
Ludomir WIŚNIEWSKI

SESSION ORGANIZED BY:



8:30 a.m. – Meeting session member, Main Hall
of Auditorium Maximum UJ, Krupnicza str

8:45 a.m. – Departure from Kraków

9:45 a.m. – Transportation to Drozdowice
4 chamber

10:15 a.m. – Session opening

10:30-12:00 a.m. – **1st Part**

10:30-10:45 a.m. – **Zbigniew Zarębski**
Wieliczka Salt Mine PLC
The Wieliczka Salt Mine

10:45-11:00 a.m. – **Adam Frużyński**
Coal Mining Museum in Zabrze
*A collection of plans and technical drawings of
State Mining Authority from Wrocław as a source
to mining history on Upper Silesia at the turnover of
18th and 19th century*

11:00-11:15 a.m. – **Eufrozyna Piątek**
*The town of Wałbrzych from the point of view of the
mining industry development*

11:15-11:30 a.m. – **Jerzy Tomasz Bąbel**
"Krzemionki Opatowskie" Archaeological Museum
and Reserve "Krzemionki Opatowskie"
The earliest beginnings of modern mining

11:30-11:45 a.m. – **Gennadiy Gayko**
Donbass State Technical University Alchevsk,
Ukraine
*Mining Engineering in the History of Culture and
Engineering (reflections upon the expectant book
pages)*

11:45-12:00 a.m. – **Ludomir Wiśniewski, Jan
Gustaw Jurkiewicz**
Society for the Restoration and Promotion of
Queen Luise Adit in Zabrze "ProFuturo"
*The Main Hereditary Key Adit a testimony to the
development of underground building technology
in the 18th/19th century*

12:00-1:30 p.m. – **Lunch**

1:30-3:00 p.m. – **2nd Part**

1:30-1:45 p.m. – **Antoni Jodłowski**
Museum of Cracow's Saltworks
*Salt Mine In Wieliczka – a historical remain of
material culture and a history witness*

1:45-2:00 p.m. – **Zenon Szmidtko**
The Coal Mining Museum in Zabrze
*Skarboferm – 1922-1939. Technical and technolo-
gical innovations introduced by the concern and its
expansion on global markets.*

2:00-2:15 p.m. – **Piotr Strzałkowski**
Faculty of Mining and Geology Silesian University
of Technology
Influence of mining exploitation on surface –

*evolution of views and methods of deformation
forecasting*

2:15-2:30 p.m. – **D. Fodor, V. Pop**
University of Petrosani & University of Baia Mare
– Romania
Pages Of Romanian Mining History

2:30-2:45 p.m. – **Maciej Madziarz**
Institute of Mining, Wrocław University of
Technology
*800 years of mining in Radzimowice. From a 13th
century ore mine to uranium ore mining, an example
of centuries long history of the Lower Silesian ore
mining development*

2:45-3:00 p.m. – **Zenon Duda**
AGH University of Science and Technology
Department of Mining and Geoengineering, AGH
Janusz Wojciech Kotasiak
Director of The Archeological Museum in Ostrów
Świętokrzyski in years 1962-2006
*The Neolithic flint mines in Krzemionki - problems
of conservation and adaptation for didactic and
tourism exhibition*

3:00-3:45 p.m. – **Coffee break**

3:45-4:45 p.m. – **End session, closing remarks**

4:45-6:30 p.m. – **Visiting The Wieliczka Salt
Mine**

6:30 p.m. – **Departure to Krakow**

WIELICZKA SALT MINE



Session 10

LEGAL ASPECT OF MINING ACTIVITY

Chairman: **Piotr GISMAN**
Co-Chairman: **Magdalena ŚMIESZEK, Małgorzata WAKSMAŃSKA**

OUTGOING SESSION 10TH SEPTEMBER 2008 DAY 4 (WEDNESDAY)

State Mining Authority,
31 Poniatowskiego str., Katowice

SESSION ORGANIZED BY:

State Mining Authority



7:45 a.m. – Meeting of the participants at the Main Hall of Auditorium Maximum of the Jagiellonian University, Krupnicza str.

8:00 a.m. – Departure to Katowice

10:00-10:20 a.m. – Opening address by the President of State Mining Authority

10:20 a.m.-12:20 p.m. – 1st part of plenary session

10:20- 0:35 a.m. – Karin Aust

Federal Ministry of Economics and Labour,
Austria
The scope of geological and mining law

10:35-10:50 a.m. – Boris BALOG

Ministry of Economy, Slovak Republic
Current situation and prospects of Slovak mining legislation

10:50-11:05 a.m. – Simon COOK

The Coal Authority, Great Britain
Back into the private sector-The regulation of Great Britain's coal resource since 1994

11:05-11:20 a.m. – T. HÁMOR, G. SZABADOS

Hungarian Office for Mining and Geology,
Hungary
An assessment of future trends in mining and geology legislation and associated regulatory competences

11:20-11:35 a.m. – Ilmar JOOSEPSON

Estonian Technical Surveillance Authority, Estonia
The implementation of the requirements of Estonian Mining Act and directives of EU in the Estonian mining industry

11:35-11:50 a.m. – Ryszard MIKOSZ

Silesian University, Katowice, Poland
The scope of Polish mining and geological law

11:50-12:05 a.m. – Aleksander LIPINIŃSKI

Silesian University, Katowice, Poland

The scope of geological and mining law (in light of draft act after interministerial consultations version of 21 July 2008)

12:05-12:20 a.m. – H.S. WELIDENIYA

Department of Earth Resources Engineering
Faculty of Engineering, University of Moratuwa,
Sri Lanka
Legal aspects of mining industry in Sri Lanka and regulatory procedures

12:20-12:30 p.m. – The presentation of mining exhibition (B. Szygula)

12:30 a.m. - 1:30 p.m. – Lunch and the presentation of mining exhibition

1:30-4:00 p.m. – 2nd part of the plenary session

The competences of the mining supervisory authorities and the mining control authorities

1:30-1:45 p.m. – Reinhard SCHMIDT

President des Sachsischen Oberbergamtes,
Germany
The setting up of and duties of appropriate mining authorities in Germany

1:45-2:00 p.m. – Karin AUST

Federal Ministry of Economics and Labour,
Austria
Competences of mining supervision organs and mining control organs in Austria

2:00-2:15 p.m. – Julianne KNAUL

State Office for Mining, Geology and Minerals of Brandenburg, Germany
Competences of mining supervision organs and mining control organs

2:15-2:30 p.m. – Ivo PĚGRÍMEK, Pavel DVOŘAK, Antonín TAUFER

The Czech Mining Authority, Czech Republic
Duties of mining organizations in order to minimize

causes threatening work safety and the sphere of authority of the State Mining Administration

2:30-2:45 p.m. – Y.G. KALE, RANJAN SAHAI, C.P. AMBESH

Indian Bureau of Mines, India
Sustainable Mineral Development-Policy & Regulatory Approach in India

2:45-3:00 p.m. – J.F. CRONJÉ, L.J. VAN WYK, C.S. CHENGA, D. VAN WYK, L. SEGWE

North-West University Potchefstroom South Africa
University of Kent, UK Bench Marks Foundation of Southern Africa, Johannesburg, South Africa
Mudjadii Trading (Pt) Ltd., Johannesburg, UK, South Africa
Development Issues within a CSR Framework in the SADC

3:00-3:15 p.m. – A. KIJEWSKA, J. KORSKI, H. PRZYBYŁA

Silesian University of Technology, Poland
Strategic role of human resource management in coal mining

3:15-3:30 p.m. – K. GADOWSKA, J. MARTYKA, K. NOWAK, K. TAUSZ

Jagiellonian University, Poland
Reflection on the prestige of mine supervisory staff from the aspect of hard coal mine management

3:30-3:45 p.m. – Piotr GISMAN

State Mining Authority, Katowice, Poland
Mining supervision in Poland

3:45-4:00 p.m. – Discussion and closure of the session

4:10-4:30 p.m. – Departure to the historic mine „GUIDO” in Zabrze

4:30-8:30 p.m. – Visit to the historic mine „GUIDO” and mining fest

8:30 p.m. – Departure from Zabrze to Krakow

10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

Main Hall A-0,
AGH University of Science and Technology
Al. Mickiewicza 30

Session 11

17TH INTERNATIONAL CONFERENCE ON AUTOMATION IN MINING ICAMC`2008

Chairman: **A.K. GHOSE**
Co-Chairman: **Bolesław FIRGANEK**
Secretary: **Elżbieta ŚWIDER**

SESSION ORGANIZED BY:



9:00-9:10 a.m. – Conference opening

Section I: Control Systems Chairman: Prof. A.K. Ghose

9:10-9:30 a.m. – A. CZECHOWSKI, M. LUBRYKA,
J. LUBRYKA

Elgór+Hansen, JSW S.A- KWK „Jas-Mos”, Poland
*The Study of Control Software: System and Visuali-
zation for Special Mining Machine*

9:30-9:50 a.m. – K. OPIELKA, J. ZIENTEK,
A. JESTRATJEW, W. DOMAGAŁA, R. MAKOWSKI,
A. NOWAKOWSKI, A. BYWALEC

Silesian University of Technology Department of
Computer Science, Poland
*Supervisory Control System for Mining Belt
Conveyors*

9:50-10:10 a.m. – E. CIEŚLAR, A. HOLIK

Elektrometal S.A., Poland
*Memory Management in Announcement Module
EM250 of ELSAP-05 Intrinsically Safe Controller*

10:10-10:30 a.m. – Z. KASZTELEWICZ, J. SZY-
MAŃSKI

AGH University of Science and Technology,
Poland

*Control of the Conveyor Belt and Caterpillar
Machines Drives in the Brown Coal Mines*

10:30-11:00 a.m. – Coffee break

Section II: Safety and Communication Chairman: Prof. S. Cierpisz

11:00-11:20 a.m. – Ch. MULLER

Embigence GmbH, Germany
*Underground Mine Network Communication: Adding
Mining Specific Value by Unified Communication
Infrastructure*

11:20-11:40 a.m. – K. MIŚKIEWICZ, A. WOJA-
CZEK

Silesian University of Technology, Gliwice, Poland
Mining Communication Systems Integration

11:40-12:00 a.m. – H. PASSIA*, W. SKOROPACKI*,
F. ŚWIERGOT**

*Central Mining Institute, Katowice, Poland

**Mining Electronics Factory „ZEG”, Tychy, Poland

*Idea of Explosion-Proof Power Supply Bus Intended
for Continuous Work in Atmospheres Endangered
with Explosion of Methane and/or Coal Dust*

12:00-12:20 p.m. – L.K. BANDYOPADHAY,
S.K. CHAULYA, P.K. MISHRA

Central Institute of Mining and Fuel Research,
India

*Development of Tracking and Monitoring System
Based on RFID Tags for Disaster Management in
Underground Mines*

12:20-12:40 p.m. – K. MIŚKIEWICZ, E. CIEŚLAR
Silesian University of Technology, Elektrometal
S.A., Poland

*Selected Problems with Location of Trapped Miners
in Underground Mines*

12:40-1:00 p.m. – P. GOLICZ

Central Mines Rescue Station, Poland
*GLON-GLOP Mining System for Locating People
Captured by Fall of the Roof*

1:00-3:00 p.m. – Lunch

Restaurant Hall (Level -1), Auditorium
Maximum of the Jagiellonian University
(Krupnicza str.)

Section III: Monitoring Systems

Chairman: Prof. V. Strakoš

3:00-3:40 p.m. – E.S. LAPIN, V.V. MATVEEV,
M.I. ABDRAKHMANOV, M.G. SOPOZHNIKOV

Ural State Mining University, Russia
*The problems of Automation of Explosive Gas
Withdrawal Complexes in Mines*

S.O. KUZMENKO, A.V. VILGELM, S.E. LAPIN

Ural State Mining University, Russia
*Analysis and Forecast Safety Threats
at Mining Enterprises*

A. BABIENKO, S. ORZEHEHOVSKY, S.E. LAPIN,
L. KULIN

Ural State Mining University, Russia
*Mining Safety Increase by Means of Integrated
Implementation of Requirements for Gas Control
and Personal Equipment of Miners*

S. SKOBTISOV, D. RESHETNIKOV, E.S. LAPIN
Russia

Mine Source of Supply

3:40-4:00 p.m. – S. PETERS, T. GORKA

DMT GmbH, Germany

*Monitoring of the Roof Rocks of Roadways in
Underground Coal Mining with the Anchor Borehole
Inspection Tool*

Section IV: Modelling and Optimiza- tion

Chairman: Prof. E. Lapin

4:00-4:30 p.m. – S. CIERPISZ, K. KALINOWSKI,
R. KAULA, J. PIELOT

Silesian University of Technology, Poland
*Production Control and Optimisation in a Group of
Coal Preparation Plants*

4:30-5:00 p.m. – Coffee break

Section IV: Continuation

5:00-5:20 p.m. – N. ZDENĚK, B. STALMACHOVÁ,
R. KLIMUNDA

Czech Republic

*The Information System and Modelling of
Reclamation of Subsidence Ponds and Settling
Lagoons in the Upper Silesian Mining Landscape.*

5:20-5:40 p.m. – M. KARAMOOZIAN,
S.Z. SHAFEI, R. KAKAI

Kerman University of Applied Science and
Technology, Iran

Semiautogenous Mill Liner Wear Kinetics Model

5:40 – 6:00 p.m. – T. NIEDOBA

AGH University of Science and Technology,
Poland

*Approximation of Oparticle Size Composition Curves
by Bayesian Estimators of Weibull Distribution
Functional Parameters with Application of Cut
Normal Distribution Function*

6:00 p.m. – Closing of the Conference

8:00 p.m. – Banquet at Auditorium Maximum
Jagiellonian University, Krupnicza str.,
The Restaurant Hall (Level -1)

10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

MH A – A Part of Medium Hall in AM
Auditorium Maximum of Jagiellonian University, Krupnicza str.

Session 12

RISK MANAGEMENT & SUBSIDENCE ENGINEERING

Chairman: **Axel PREUSSE**
Co-Chairman: **Ryszard HEJMANOWSKI**
Secretary: **Agnieszka MALINOWSKA**

SESSION ORGANIZED BY:



9:00-9:05 – Opening of the session

9:05-9:45 a.m. – Axel PREUSSE - keynote speaker, Anton Sroka

RAG Aktiengesellschaft, Germany
Future Demands on Mining Subsidence Engineering in Theory and Practice

9:45-10:00 a.m. – Zenon PILECKI

AGH University of Science and Technology, Poland
The Role of Geophysical Methods in the Estimation of Sinkhole Threat in the Post-Mining Areas of Shallow Exploitation in the Upper Silesian Coal Basin, Poland

10:00- 10:15 a.m. – V. SOKOŁA-SZEWIOŁA

The Silesian University of Technology, Poland
Method of evaluating the probability of a strong tremor

10:15-10:30 a.m. – XUEYIYU, BINGCHAO ZHAO, GUOLIANG ZHAO

Key Laboratory of Western Mine Exploitation Hazard Prevention Xi'an University of Science and Technology, China
Damage Controls mode of Mining Subsidence about Shaanbei – Jurassic Coalfield in China

10:30-11:00 a.m. – Coffee break

11:00-11:15 a.m. – Wolfgang BUSH

Germany
Germany Subsidence monitoring using SAR interferometric techniques

11:15-11:30 a.m. – Eligiusz JĘDRZEJEC, Piotr KALISZ, Andrzej KOWALSKI, Jerzy KWIATEK

Central Mining Institute, Poland
New solutions in the field of surface deformation prediction and object protection in mining areas

11:30-11:45 a.m. – Agnieszka MALINOWSKA

AGH University of Science and Technology, Poland
A fuzzy logic-based approach to building damage risk assessment considering the social and economic value

11:45-12:00 a.m. – Augustyn HOLEKSA, Mieczysław LUBRYKA, Jerzy MAJCHRZAK, Jerzy ŚLIWIŃSKI

„Jas-Mos” coal mine, Poland
The impact of the exploitation of „Jas-Mos” coal mine on the route of A-1 motorway

12:00-12:15 p.m. – Andrew JAROSZ

Curtin University of Technology-Western

Australian School of Mines, Australia
Development of Inspection System for Evaluation of Ore-passes at Grasberg Mine, PT Freeport, Indonesia.

12:15-12:30 p.m. – Peter FISCHER, Axel PREUSSE, Anton SROKA

RAG Aktiengesellschaft, Germany
Extraction of hard coal close to a shaft

12:30-12:45 p.m. – O.O. GLUKHOV, A.V. AANTSY- FEROV, O.I. KOMPANETS

UkrNIMI NAN of Ukraine, Ukraine
Methods and practical results of using GeoMark geoinformation system in mining

12:45-1:00 p.m. – Edward POPIOŁEK, Ryszard HEJMANOWSKI

AGH University of Science and Technology, Poland
Forecasting and monitoring of underground mineral seam exploitation influence

1:00-3:00 p.m. – Lunch

8:00 p.m. – Banquet at Auditorium Maximum Jagiellonian University, Krupnicza str., The Restaurant Hall (Level -1)



LUBELSKI WĘGIEL
BOGDANKA S.A.

10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

MH A – A Part of Medium Hall in AM
Auditorium Maximum of Jagiellonian University, Krupnicza str.

Session 13

CONTRIBUTION OF STRATA
MECHANICS TO MINING
TECHNOLOGY AND WORK SAFETY

INTERNATIONAL SYMPOSIUM
ORGANIZED BY THE
INTERNATIONAL BUREAU OF
STRATA MECHANICS (IBSM)

Chairman: **Raimo MATIKAINEN**

Co-Chairman: **Marek CAŁA**

Secretary: **Piotr MAŁKOWSKI**

3:00-3:15 p.m. – Introduction

3:15-3:30 p.m. – T. SZWEDZICKI

AusWest Pty Ltd. Perth, Western Australia,
Australia

*Precursors to rock mass failure in underground
mines*

3:30-3:45 p.m. – H. MARCAK

AGH University of Science and Technology, Poland

*The structure of seismic acceleration signals recorded
on ground surface*

**3:45-4:00 p.m. – T.V. LOBANOVA, V.N. OPARIN,
A.V. LEONTIEV**

Institute of Mining, Siberian Branch, Russian
Academy of Sciences, Russia

*Features of rock mass movements under its higher
geodynamic activity in terms of the Tashtagol Mine,
Russia*

4:00-4:15 p.m. – U. RUPPEL, U. LANGOSCH

DMT GmbH, Germany

*State of the art. Dimensioning of shield support to
optimize longwall roof control*

4:15-4:30 p.m. – N. BULYCHEV

Tula State University, Russia

Analytical design method for vertical shaft lining

4:30-5:00 p.m. – Coffee break

**5:00-5:15 p.m. – N. FOTIEVA, N. BULYCHEV,
P. DEEV, V. VLADOVA**

Tula State University, Russia

*Design of support of multiple non-circular workings
in tectonic areas*

5:15-5:30 p.m. – S. PRUSEK, S. BOCK

Central Mining Institute, Poland

*Assessment of rock mass stresses and deformations
around mine workings based on three-dimensional
numerical modeling*

5:30-5:45 p.m. – E. V. KASPARIAN

Mining Institute Kola Science Centre RAS, Russia
*Hierarchic-block models of rock mass in modern
geomechanics*

**5:45-6:00 p.m. – A.N. SHASHENKO, E.A. SDVIZ-
HKOVA**

National Mining University, Ukraine

*Analysis of some failure criterions and estimation of
scale effect in rocks*

6:00-6:15 p.m. – Summary

**8:00 p.m. – Banquet at Auditorium Maximum
Jagiellonian University, Krupnicza str.,
The Restaurant Hall (Level -1)**

KGHM POLSKA MIEDŹ S.A.



Session 14

ECONOMICS, MANAGEMENT AND DESIGN IN THE MINING INDUSTRY

Chairman: **John E. TILTON**
Co-Chairman: **Roman MAGDA**
Secretary: **Patrycja BAŁK**

9.00-9.15 a.m. – G.G. PIVNYAK, U.T. RASUMNY, A.V. RUKHLOV

National Mining University, Ukraine

Aspects of the fuel industry development in Ukraine

9.15-9.30 a.m. – G.G. PIVNYAK, P.I. PILOV

National Mining University, Ukraine

Strategy of coal industry development in Ukraine

9:30-9:45 a.m. – J. ENGEL, P. RYBÁR

Faculty BERG Technical University Kosice, Slovakia

Substitutability of capital and sustainable development in mining

9:45-10:00 a.m. – V. BAUER

Faculty BERG Technical University Kosice, Slovakia

The risk evaluation in expected uranium mining at Slovakia

10:00-10:15 a.m. – K. DOERFLER, M. WURM

Rio Tinto Minerals Austria, Austria

Talc mining in Austria: sustaining activities in the face of scarce resources and competing interests

10:15 -10:30 a.m. – Discussion and comments

10:30-11:00 a.m. – Coffee break

11:00-11:15 a.m. – F. BUSE, I.N. TIUZBAIAN, N. DOBRITOIU

University of Petrosani, Romania

The simulation of longwall complex mechanized operating face system

11:15-11:30 a.m. – N. TIUZBAIAN, F. BUSE, N. DOBRITOIU

University of Petrosani, Romania

The influence of 'labor' production factor upon work quoting and productivity in mechanized mining

11:30-11:45 a.m. – M. JASZCZUK, J. KANIA

Silesian University of Technology, Poland

Theoretical consideration in establishing the parameters of longwall panel

11:45-12:00 a.m. – R. MAGDA, T. FRANIK

AGH University of Science and Technology, Poland

Planning and design of rational parameters of longwall panels in underground hard coal mines

12:00-12:15 p.m. – R. MAGDA, T. WOŹNY, S. GŁODZIK, J. JASIEWICZ

AGH University of Science and Technology, Poland

Data management for the mine production planning and design

12:15-12:30 p.m. – Discussion and comments

1:00-3:00 p.m. – Lunch

3:00-3:15 p.m. – Q. WANG, X. GU, D. CHU

College of Resources and Civil Engineering

Northeastern University Shenyang Liaoning, China
A dynamic optimization method for determining cutoff grades in underground mines

3:15-3:30 p.m. – J. SATTARVAND, CH. NIEMANN-DELIUS

RWTH Aachen University, Germany

Perspective of metaheuristic optimization methods in open pit production planning

3:30-3:45 p.m. – A. D. AKBARI, M. OSANLOO, M.A. SHIRAZI

Mining Engineering Department Azad University Science and Research Branch, Iran

Ultimate Pit Limit (UPL) determination through minimizing risk costs associated with price uncertainty

3:45-4:00 p.m. – A. SHAHINKAR, K. SHAHRIAR, A. ASADI, A.D. AKBARI

Mining Engineering Department Azad University Science and Research Branch, Iran

Feasibility study of oil mining – a fuzzy AHP decision making approach

4:00-4:15 p.m. – H. OWLADEGHAFARI, K. SHAHRIAR, GH. R. SAEEDI

Mining Engineering Department of Shahid Bahonar University, Iran

Assessment of effective parameters on dilution using approximate reasoning methods in longwall mining method, Iran coal mines

10TH SEPTEMBER 2008
DAY 4, WEDNESDAY

PH – Portrait Hall
Auditorium Maximum of Jagiellonian University, Krupnicza str.

SESSION SPONSORED BY:

PRICEWATERHOUSECOOPERS 

4:15-4:30 p.m. – Discussion and comments

4:30-5:00 p.m. – Coffee break

5:00-5:15 p.m. – R. SAYADI, M. A. HOSSEINI, V. BOZORGI

Tarbiat Modarres Universit, Iran

Price instability and terms of trade for mineral commodities in the last two decades

5:15-5:30 p.m. – B. SOLIŃSKI, I. SOLIŃSKI

AGH University of Science and Technology, Poland

Economical appraisal of the energetic application of hard coal in co-combustion process with biomass in system power plants

5:30-5:45 p.m. – M. SIERPIŃSKA, A. KUSTRA

AGH University of Science and Technology, Poland

Bonus systems in mining industry, current situation and future developments

5:45-6:00 p.m. – A. KUSTRA

AGH University of Science and Technology, Poland

Cost calculation in the mining activity treated as a project – strategic and operational approach

6:00-6:15 p.m. – A. DYCZKO, M. KOPACZ

Mineral and Energy Economy Research Institute of Polish Academy of Sciences, Poland

Dilution influence on value of mining investment projects and selected production figures by a copper mine example

6:15-6:30 p.m. – P. BAŁK

AGH University of Science and Technology, Poland

Securitization as a method of financing coal mining industry

6:30-6:45 – Closing Session

8:00 p.m. – Banquet at Auditorium Maximum Jagiellonian University, Krupnicza str., The Restaurant Hall (Level -1)

21ST WORLD MINING CONGRESS & EXPO 2008

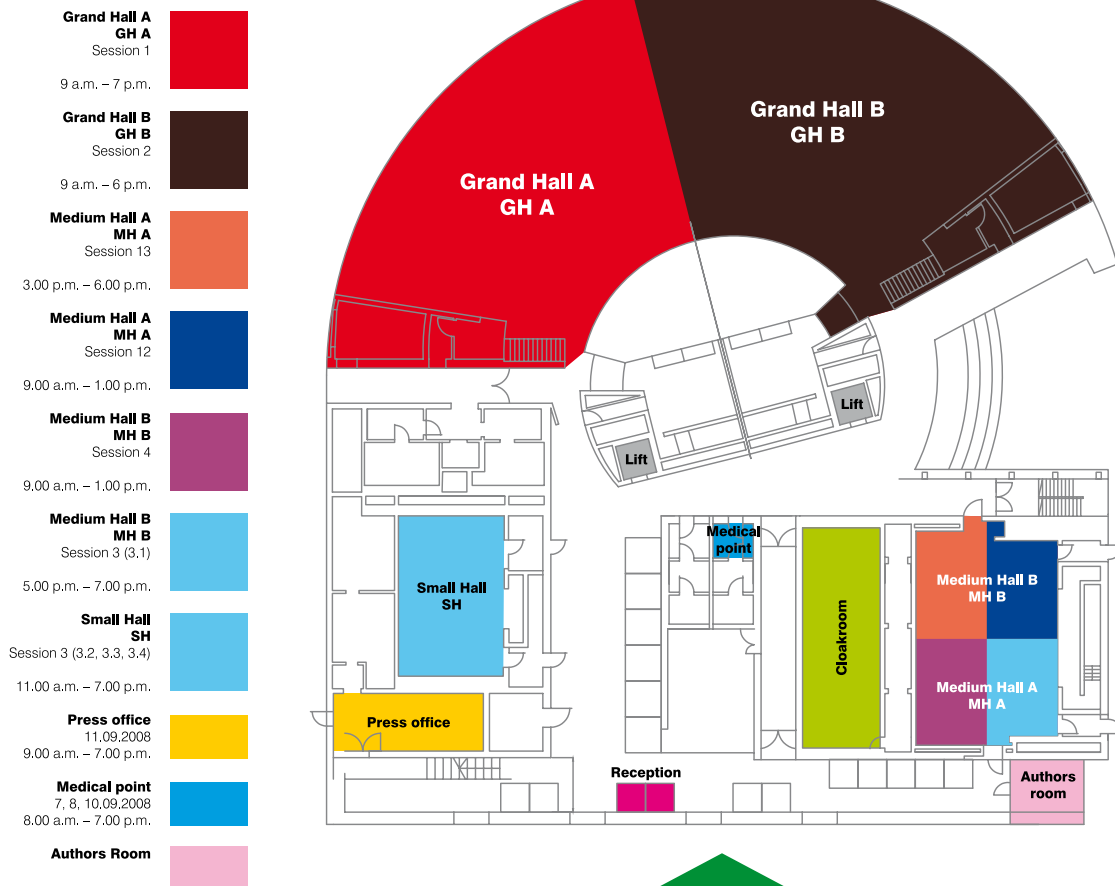
Auditorium Maximum

Auditorium Maximum of Jagiellonian University,
Krupnicza 33 str.



AUDITORIUM MAXIMUM

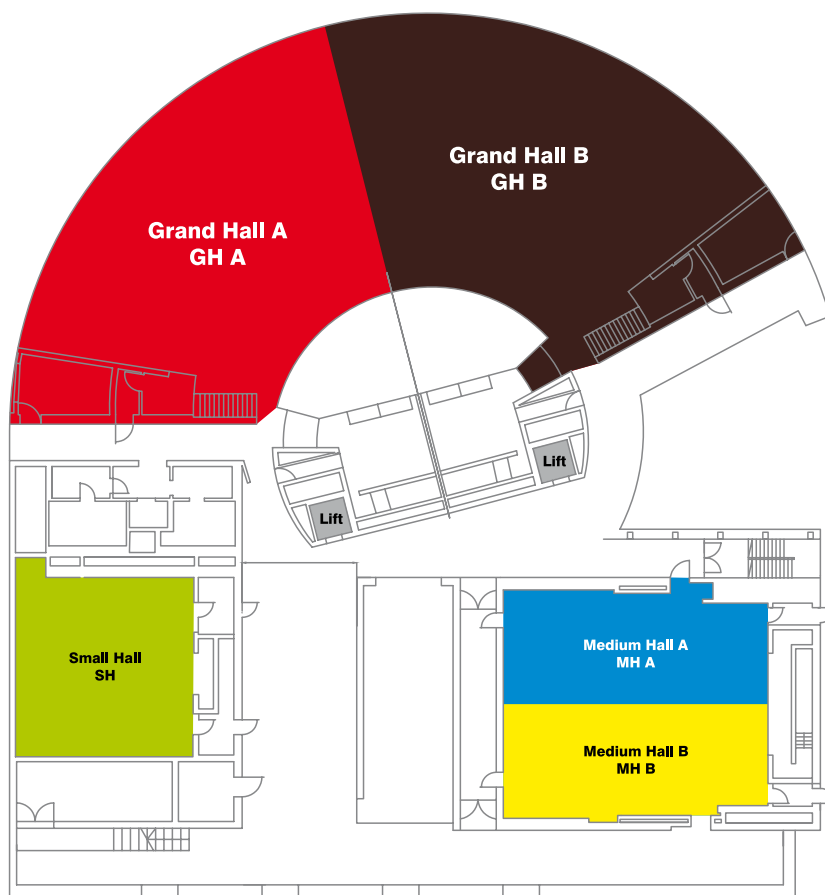
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Entrance

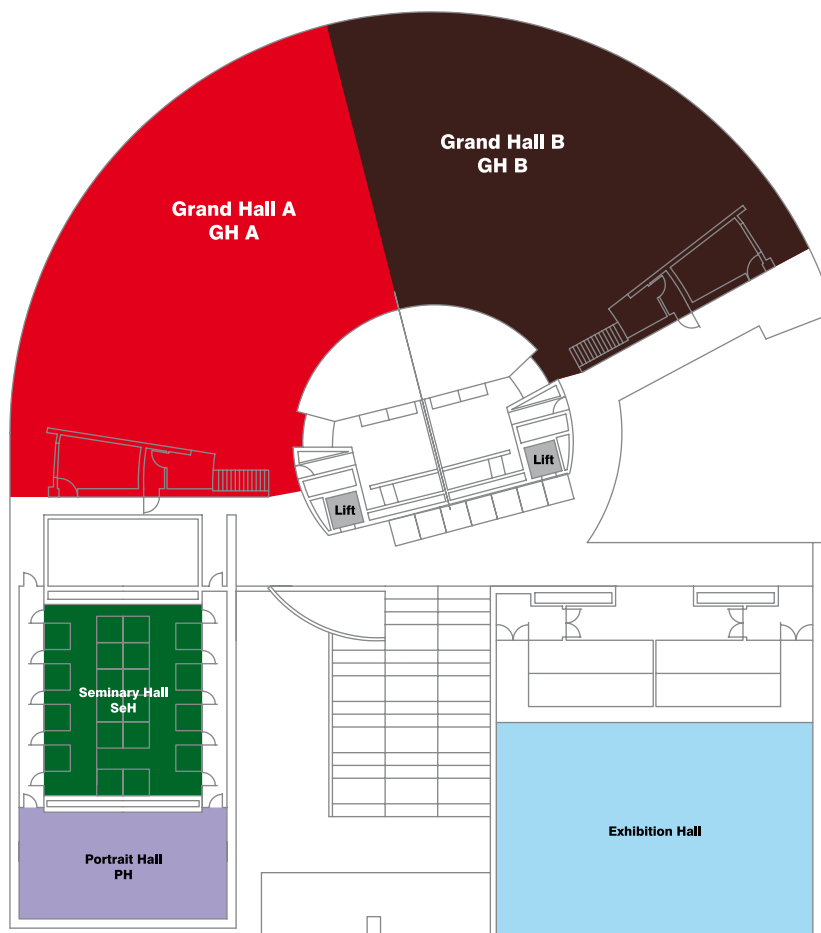
1st Level

- Grand Hall A**
GH A
Session 1
9 a.m. – 7 p.m.
- Grand Hall B**
GH B
Session 2
9 a.m. – 6 p.m.
- Medium Hall A**
MH A
- Medium Hall B**
MH B
- Small Hall**
SH



2nd Level

- Grand Hall A**
GH A
Session 1
 - Grand Hall B**
GH B
Session 2
 - Seminary Hall**
SeH
Session 5
9 a.m. – 6 p.m.
 - Portrait Hall**
PH
Session 14
9 a.m. – 7 p.m.
 - Exhibition Hall**
- 7 – 11 September 2008



21ST WORLD MINING CONGRESS & EXPO 2008

11TH SEPTEMBER 2008
DAY 5, THURSDAY

Auditorium Maximum of Jagiellonian University, Krupnicza str.



KRAKOW, THE MAIN SQUARE

FRAMEWORK PROGRAMME

- 9:00-11:15 a.m. Mining industry – the present and the future: part I, Middle Hall A
- 9:00-11:30 a.m. Mining industry – the present and the future: part II Middle Hall B
- 11:30 a.m. - 12:30 p.m. Poster session
- 11:45 a.m. - 12:30 p.m. Coffee break
- 12:30-1:30 p.m. Farewell concert
- Congress closing
- Lunch

DETAILED PLAN

PART I, MIDDLE HALL A

CHAIRMAN: **PEKKA SARKA**
SECRETARY: **PIOTR SAŁUGA**

9:00-9:15 a.m. – Tadeusz PINDÓR, Leszek PREISNER
AGH University of Science and Technology, Krakow, Poland
World Coal Sector Restructuring due to Sustainable Development

9:15-9:30 a.m. – Zygmunt Z. FUGINSKI, Askar ENIKIEV
SPb Giprosnakht, St. Petersburg, Russia
Increased demand for coal – growing market for deposit evaluations and mine design services in Russia

9:30-9:45 a.m. – Tadeusz MAJCHERCZYK, Piotr MAŁKOWSKI, Zbigniew NIEDBALSKI
AGH University of Science and Technology, Poland
The effects of rock mass pressure regarding „in situ” research

9:45-10.00 a.m. – Dietmar PLUM
DMT GmbH & Co. KG, Essen, Germany
Planning of High Performance Plowing Faces based on Cutting Resistance measurements

10:00-10:15 a.m. – Petar HRZENJAK*, Ivan COTMAN, Zlatko BRISEVAC***
*University of Zagreb, Croatia
**Kamen d.d. Pazin, Pazin, Croatia
Geotechnical investigation for designing underground natural stone mines



KGHM POLSKA MIEDŹ S.A.

**11TH SEPTEMBER 2008
DAY 5, THURSDAY**

10:15-10:30 a.m. – Antoni KIDYBIŃSKI, Eugeniusz KRAUSE
Central Mining Institute, Katowice, Poland
Current developments in coal and gas outbursts research aimed at assessment and limitation of the hazard in mines

10:30-10:45 a.m. – A. NICOLA KING, B. MARYNA MOHR-SWART, C. HERMAN CORNELISSEN
South Africa
Water treatment at mine closure: the changing role of mining

10:45-11:00 a.m. – Teodor WINKLER, Mark DUDEK, Dariusz MICHALAK, Jarosław TOKARCZYK, Łukasz JASZCZYK
KOMAG Mining Mechanization Centre, Gliwice, Poland
Knowledge Based Forming of Safe Work Environment in Mining

11:00-11.15 a.m. – Elizabeth BENSON-STOTT, James STOTT, Dadirai GARA
BetterLife Directions Pty Ltd, Hervey Bay, Australia
Identity, Culture and Psychological Health of today's Miners & Their Families

PART II, MIDDLE HALL B

CHAIRMAN: JACEK PARASZCZAK
CO-CHAIRMAN: RYSZARD HEJMANOWSKI
SECRETARY: MICHAŁ KOPACZ

9:00-9:15 a.m. – Michael SCHATZ
Federal Ministry of Economics and Labour, Vienna, Austria
Worldwide Construction Raw Materials Statistics

9:15-9:30 a.m. – Leopold WEBER
Federal Ministry of Economics and Labour Mining Authority, Vienna, Austria
Recent Developments in World Mining Production – A new Iron age?

9:30-9:45 a.m. – Sohei SHIMADA
The University of Tokyo, Japan
Coalbed Methane and Coal Mine Methane as a Clean Energy Source in Asian Regeion

9:45-10:00 a.m. – İbrahim Halil KIRŞAN, Şükrü ŞAFAK
Mineral Research and Exploration, Ankara, Turkey
Mineral potential of Turkey

LAST OPPORTUNITY TO VISIT WORLD MINING EXPO EXHIBITION IN SOSNOWIEC

10:00-10.15 a.m. – B.R.RAKISHEV
Kazak National Technical Satpaev University, Almaty, Kazakhstan
Open cast mining in Kazakhstan under market conditions

10:15-10:30 a.m. – G.V.R. GOODMAN, O.C. KARACAN, S.J. SCHATZEL, R.B. KROG, C.D. TAYLOR, E.D. THIMONS
National Institute for Occupational Safety and Health, Pittsburgh Research Laboratory, Pittsburgh, PA, USA
NIOSH Research for Monitoring and Controlling Methane at U.S. Underground Coal Mining Operations

10:30-10:45 a.m. – Jan PALARSKI, Marcin LUTYŃSKI
Silesian University of Technology, Gliwice, Poland
New trends of reducing Greenhouse Gases emissions and environmental impact of coal mining industry

10:45-11:00 a.m. – Jacek PARASZCZAK
Université Laval, Quebec City, PQ, Canada
Current situation and challenges facing the Canadian metal mining industry

11:00-11.15 a.m. – Tad SZWEDZICKI
AusWest Pty Ltd, Perth, Western Australia
Maining in Australia and South Paccific

11:15-11:30 a.m. – Mariusz-Orion JĘDRYSEK
University of Wrocław, Poland
Deep-ocean exploration of metals ore deposits controlled by the International Seabed Authority: selected aspects of the present state and possible mining

11.30 a.m. - 12.30 p.m. – Poster session

11.45 a.m. – Coffee break

12:30-13:30 p.m. – Concert of Sinfonietta Cracovia Orchestra, violin/conductor: Robert Kabara

1:30-1:40 p.m. – Speech of Minister of Economy, Waldemar Pawlak

1:40-1:45 p.m. – Approval of Krakow Declaration

1:45-2.00 p.m. – Thanks to sponsors

2:00-2:20 p.m. – Congress closing

2:20-3:30 p.m. – Lunch

**12TH SEPTEMBER 2008
DAY 6, FRIDAY**

**World Mining Expo,
Expo Silesia, Sosnowiec,
Braci Mieroszewskich str 124**