XI-th National conference with international participation of the open and underwater mining of minerals

XI-ая Национальная конференция с международным участием по открытой и подводной добыче полезных ископаемых

June 19-23, 2011
International House of Scientists “Fr. J. Curie”
Varna, Bulgaria
<table>
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<tr>
<th>Day</th>
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<td>19 June Sunday</td>
<td>15 00 – 19 00</td>
<td>Registration</td>
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<td>09 00 – 09 30</td>
<td>Opening ceremony</td>
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<td>Plenary Session</td>
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<td>16 30 – 18 00</td>
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<td>21 June Tuesday</td>
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<td>11 30 – 13 00</td>
<td>VI\textsuperscript{th} Section Session</td>
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<td>13 00</td>
<td>Closing ceremony</td>
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<td>19 00</td>
<td>Gala dinner</td>
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<td>22 June Wednesday</td>
<td>7 00 – 20 00</td>
<td>Post Conference Tour</td>
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By courtesy of

FEDERATION OF THE SCIENTIFIC ENGINEERING UNIONS

with the co-operation of:

- Ministry of Economy, Energy and Tourism in Bulgaria
- Ministry of Environment and Water in Bulgaria
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- Bulgarian chamber of mining and geology
- Association “Bulgarian coal mining”
- “Marica Iztok” mines JSC
- “Ellatite-med” JSC
- “Assarel Medet” JSC
- “Kaolin” JSC
- “Minproekt” JSC
- “Niproruda” JSC
- “Geotechmin” Ltd.
- “Minstroy Holding” JSC
- “Beli breg” mine JSC
- “Stanyantzi” mine JSC
- “Chukurovo” mine JSC
- Open pit Coal Mining – Pernik
- “Bobov dol” mine JSC
- MDZ “Balsha”
- “Devnja varovik” JSC
- “Inertni materiali” JSC
- “Hemus – M” JSC
- “Zlatna Panega Cement” JSC
- “Vatija” JSC
- “Andela” JSC
- “Andezit” Ltd.
- “Minstroy Rodopi” JSC
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- “Bumar” JSC
- “NOAC” Ltd.
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THEMATIC TOPICS


2. Drilling and blasting technique, transport and work safety. Ventilation of the deep opencast mines.

3. Information technologies, computer systems, software products in geological prospecting, mine surveying and mining activity.


5. Draining, stability and consolidation of slopes in opencast mines and quarries. Quarries waste dumps and tailings pools.


7. Economy, organization and management of the technological processes and production works in the open and underwater mining of minerals. Markets and realization of the products.

8. The mining legislation and his harmonization with European normative base. Education, qualification and specialization of mining experts of opencast and underwater mining of minerals.
CONFERENCE PROGRAMME

19 June 2011

15:00 – 19:00 Registration of the participants
   International house of scientists – “Fr. J. Curie”
   Регистрация на участниците
   Международен дом на учените “Фр. Ж. Кюри”

20 June 2011

9:00 – 9:30 Conference opening ceremony by the chairman of the Organizing committee Dr. Eng. Tzolo Voutov
   Откриване на конференцията от Председателя на Организационния комитет д-р инж. Цоло Вутов.

   Welcoming addresses from representatives of the institutions and organizations
   Приветствия от представители на минните институции и организации

9:30 – 11:00 PLENARY SESSION
   Hall 1

   CHAIRMANSHEP

   Dr. Eng. Tzolo Voutov, Prof. DSc. Stoyan Hristov, Dr. Eng. Lachezar Tzotzorkov,
   Dr. Eng. Nikolay Valkanov, Acad. Vassil Sgurev, Dr. Eng. Kremena Dedelyanova,
   Prof. Dr. Viktor Prushak – Belarus, Prof. Dr. Vladimir Pavlovic – Serbia, Prof. Dr. Risto Dambov – Macedonia, Prof. DSc. Aleksandr Kosolapov – Russia, DSc. Zinaida Zinchenko – Tadjikistan

   A-3 OPEN AND UNDERWATER MINING OF MINERAL DEPOSITS IN BULGARIA
   K. Georgiev, St. Christov

   A-15 GEOLOGY AND NON-TRADITIONAL RESOURCES OF THE BLACK SEA
   Dimitar Dimitrov, Petko Dimitrov

   E-9 OPEN-PIT BENCH STATE ASSESSMENT USING GEORADAR TECHNOLOGIES
   Melnikov N. N., Kalashnik A. I., Kalashnik N. A.

   A-12 REVIEW OF PROSPECTIVE OPENCAST MINES IN KOSTOLAC COAL BASIN IN SERBIA
   Babović M., Jevtić B., Ivoš V.
11:00 – 11:30 Coffee break

11:30 – 13:00 I-ST SECTION SESSION – TOPIC A  
Hall 1

CONTEMPORARY TECHNOLOGIES, SYSTEMS AND METHODS IN OPEN CAST QUARRYING OF COAL, ORE, INDUSTRIAL RAW MATERIALS, ORNAMENTAL ROCKS AND BUILDING MATERIALS. MINERAL PROCESSING AND RECYCLING

CHAIRMANSHP

Prof. DSc. Stoyan Hristov - Bulgaria, Prof. Dr. Vladimir Pavlovic – Serbia, Assoc. Prof. Dr. Stanislav Topalov – Bulgaria, Dr. Eng. Ivan Markov – Bulgaria, Mag. Eng. G. Georgiev

A-4 TECHNOLOGY OF EXPLOITATION FOR ONYX STONES WITH DIAMOND WIRE SAW AND PILLOW SAW MACHINE IN THE OPEN PIT QUARRY "MANASTIR", PRILEP
Risto Dambov, Goran Stojkoski, Zoran Kostoski, Igor Stojkoski

A-5 LAND-RECLAMATION AT OPEN PIT MINES WITHIN THE KOSTOLAC BASIN
Saša Ilić

A-6 ОСОБЕННОСТИ ТЕХНОЛОГИИ КОМБИНИРОВАННОЙ РАЗРАБОТКИ МРАМОРНЫХ МЕСТОРОЖДЕНИЙ В СУРОВЫХ КЛИМАТИЧЕСКИХ УСЛОВИЯХ
А. И. Косолапов, М. Ю. Кадеров, С. А. Косолапова

A-7 QUALITATIVE-QUANTITATIVE CHARACTERISTICS OF THE MARBLES FROM BELOVODICA AREA (MK) AND OPPORTUNITIES FOR THEIR EXPLOITATION
Orce Spasovski, Risto Dambov

F-14 HYDRO TECHNICAL FACILITIES FOR LEADING OF HIGH POLLUTED DRAINED WATER FROM THE EAST DUMP TO MINE “ASAREL”
Mihail Petrov

ИНФОРМАЦИОННИ УПРАВЛЯВАЩИ СИСТЕМИ, НЕОБХОДИМИМИ ЗА ОСИГУРЯВАНЕ НА ПО-ВИСОКА ПРОИЗВОДИТЕЛНОСТ НА РОТОРНИТЕ БАГЕРИ
Иван Лалов

13:00 – 14:00 Lunch break

14:00 – 16:00 II-ND SECTION SESSION – TOPIC A  
Hall 1

CHAIRMANSHP

A-8 POSSIBILITY FOR USING CONSOLE SPREADERS IN THE OPEN PITS OF MINES “MARITSA IZTOK” JSC
St. Christov, G. Georgiev

A-9 RESEARCHES OF PROCESSING TECHNOLOGY OF FLOTATION TAILING OF SB-HG GOLDCONTAINING ORE OF JIJCIRUT DEPOSIT
Z. A. Zinchenko, I. A. Tyumin, M. S. Ismoilova, Sh. R. Samihov

A-10 ABOUT APPLICATION OF CRITERION FULL ENERGY EXPENSES AT A COAL MINING AN OPEN WAY
Tanaino A. S.

A-13 ANALISIS OF CAUSES CONVEYOR BELTS DAMAGES ON THE KOLUBARA OPEN PIT MINES AND PROTECTION POSSIBILITIES
Milan Stojaković, Mihailo Petrović

A-14 APPLICATION OF DEEP SEA ORGANOGENIC MINERAL SEDIMENTS FROM THE BLACK SEA BOTTOM FOR PRODUCTION OF CLEAN AND SAFE FOOD
Dimitar Dimitrov, Petko Dimitrov

A-16 MINING OPERATION OF TROYANOVO-SEVER OPENCAST MINE
Georgy Konstantinov, Georgy Trapov

1600 – 1630 Coffee break

1630 – 1800 II-ND SECTION SESSION – TOPIC A, TOPIC B Hall 1

A-17 ПРИЛОЖЕНИЕ НА ОЦЕНКА НА ЗАВИСИМОСТИТЕ МЕЖДУ ПАРАМЕТРИ В ОТКРИТИ РУДНИЦИ
Юлиян Димитров

A-18 ПРОБЛЕМИ И ВЪЗМОЖНОСТИ ЗА ЕТАПНО ОТРАБОТВАНЕ НА РУДНИК „ЕЛАЦИТЕ“, БЪЛГАРИЯ
Кирил Чобанов, Андрей Андреев, Надежда Чомпалова

DRILLING AND BLASTING TECHNIQUE, TRANSPORT AND WORK SAFETY. VENTILATION OF THE DEEP OPENCAST MINES

B-1 CRITERIA FOR EVALUATION OF THE SEISMIC ACTION OF BLASTING IN THE OPEN PIT MINES
Risto Dambov, Stefko Bosevski, Ilija Dambov

B-2 IMPACT OF BOTH NUMBER AND LOCALITIES OF MEASURING POINTS ON SOIL OSCILLATION LAW
Suzana Lutovac, Slobodan Trajković, Risto Dambov, Ljubinko Savić

CONSTRUCTIVE PARAMETERS OF OPEN PIT DRMNO FINAL MINE SLOPE IN THE FUNCTION OF DIAPHRAGM WALL CONSTRUCTION
Saša Stepanovic, Branko Petrović, Zoran Radisavljević
ONE IDEA SOLUTIONS OF OPEN PIT GACKO LIKE A BASE FOR MINING AREA SPATIAL PLAN
Saša Stepanovic, Tomislav Šubaranović, Jelena Majstorović

DISCUSSION

1900 WELCOME COCKTAIL PARTY in the Restaurant of the International House of Scientists “Fr. J. Curie”

21 June 2011

900 – 1100 III-RD SECTION SESSION – TOPIC B, TOPIC C, TOPIC D

Hall 1

CHAIRMANSHP


DRILLING AND BLASTING TECHNIQUE, TRANSPORT AND WORK SAFETY.
VENTILATION OF THE DEEP OPENCast MINES

B-3 BLAST DESIGN WITH OPTIMAL DELAYING INTERVALS FOR USE OF COMMERCIAL CARTRIDGES EXPLOSIVES AT BANJANI MINES –SKOPJE
Mile Stefanov, Risto Dambov, Ilija Dambov

B-4 MEASUREMENT AND ANALYSIS OF BLAST- INDUCED VIBRATIONS IN THE OPEN PIT COPPER MINE „VELIKI KRIVELJ“ BOR
Lazar Kričak, Milanka Negovanović, Ivan Janković, Dario Zeković

INFORMATION TECHNOLOGIES, COMPUTER SYSTEMS, SOFTWARE PRODUCTS IN GEOLOGICAL PROSPECTING, MINE SURVEYING AND MINING ACTIVITY

C-1 METHODOLOGY OF VISUAL IMPACT ASSESSMENT ON SURFACE MINES AND MEASURES OF MANAGING WITH THE VISUAL RESOURCE FOR THE DESIGN OF SURFACE MINES
Radmila Karanakova Stefanovska, Zoran Panov

C-2 THE ROLE OF THE GPS-SYSTEM IN INTEGRATED CONTROL SYSTEM SKYLINES IN MINE FOR COPPER BUCIM
Todor Cekerovski, Jordan Živanovíc, Kirco Minov

C-3 COMPARISON OF SOME PARAMETERS FROM THE OLD AND THE NEW CONTROL SYSTEM IN MINE BUCIM
Todor Cekerovski, Jordan Živanovíc, Zoran Despodov

C-4 STATIONARITY OF THE MAIN GEOLOGICAL FACTOR - COPPER GRADE - A CHECK OR ACCEPTING A PRIORI?
Veselin Hristov, Stanislav Topalov
NEW MACHINES AND EQUIPMENT – DRILLING, EXCAVATOR, MEANS OF TRANSPORT, SPOIL AND RECULTIVATION MACHINERY. METHODS AND DEVICES FOR ELECTRIFICATION AND AUTOMATION FACILITIES OF THE PROCESSES. REPAIR ACTIVITIES

D-1 ОЦЕНКА НА ТЕХНИЧЕСКОТО СЪСТОЯНИЕ НА ЕЛЕКТРИЧЕСКИТЕ ДВИГАТЕЛИ ЗА СРЕДНО НАПРЕЖЕНИЕ - ОСНОВА ЗА ВЗЕМАНЕ НА РЕШЕНИЯ, ГАРАНТИРАЩИ ПРОИЗВОДСТВЕНАТА ПРОГРАМА
Лъчезар Цоцорков, Делчо Николов, Николай Пелтеков, Николай Минеков, Петър Дееничин

1100 – 1130 Coffee break

1130 – 1300 III-⁷ RD SECTION SESSION – TOPIC D Hall 1

D-2 ABOUT THE SISTEM EARTHING IN THE 6 kV ELECTRICAL GRIDS IN THE OPENCAST MINES
Ivan Stoilov

D-3 HOISTING- TRANSPORTING EQUIPMENT SELECTION FOR SERVICE OF OPEN BUILDING STORAGE
Kalin Radlov, Jivko Iliev, E. Evtim. Kartselin

D-4 EQUIPMENT FOR WASTE PILES FORMATION AT THE JSC “BELARUSKALI”
Konoplyanik I. A., Dovnar V. N., Rohouski A. M.

D-5 POTASH FERTILIZERS TRANSPORTATION AND STORAGE AT THE PROCESSING PLANTS OF THE JSC “BELARUSKALI”
Scherba V. J., Konoplyanik I. A., Konoplyanik A. I.

D-6 EQUIPMENT FOR BULK POTASSIUM CHLORIDE PROCESSING INTO GRANULATED FERTILIZER
Prushak V. J., Baiko A. E., Konoplyanik A. V.

1300 – 1400 Lunch break

1400 – 1600 IV-⁸ RT SECTION SESSION – TOPIC D, TOPIC E Hall 1

CHAIRMANSHP

Prof. Dr. Petko Dimitrov – Bulgaria, Prof. Dr. Lazar Kricak – Serbia, Assoc. Prof. Dr. Orce Spasovski – Macedonia, Assoc. Prof. Dr. Mihail Vulkov – Bulgaria

D-7 ANALYSIS AND SELECTION OF THE PROCESS FLOWSHEET OF DISSOLUTION OF SYLVINITE BY PRODUCTION OF KCL USING THE METHOD OF THERMAL DISSOLUTION AND CRYSTALLIZATION
Zajats I.M., Konoplyanik A.V., Aderiho L.A.

DRAINING, STABILITY AND CONSOLIDATION OF SLOPES IN OPENCAST MINES AND QUARRIES. QUARRIES WASTE DUMPS AND TAILINGS POOLS
E-1 ИЗМЕСТВАНЕТО НА Р. САЗЛИЙКА – АКТУАЛЕН ПРОБЛЕМ НА ПЕРСПЕКТИВНОТО РАЗВИТИЕ НА РУДНИК „ТРОЯНОВО-СЕВЕР”
Й. Попов

E-2 ENSURING THE STABILITY OF THE EAST WASTE DUMP AT THE ELATSITE MINE – AN IMPORTANT CONDITION FOR SAFE WORK
Stoyan Christov, Konstantin Naidenov

E-4 REGULATION OF PHYSICAL/CHEMICAL AND MECHANICAL PROPERTIES OF POTASH FERTILIZERS
Krutko N. P., Dovnar D. N., Ahmadieva L. V.

E-5 THE RELIABILITY OF CHOICE FOR WATER SUPPLY SYSTEM OF THE STANARI THERMAL POWER PLANT
Pavlović V., Šubaranović T., Polomčić D., Jakovljević I.

E-6 AN INTEGRAL EVALUATION OF THE EARTH’S SURFACE SUBSIDENCE BY MINING OUT OF DEPOSITS
Mihail Vulkov

E-7 ABOUT THE INFLUENCE OF THE WATER CONTENTS IN ROCK MASS ON THE SLOPE STABILITY
Mihail Vulkov

1600 – 1630 Coffee break

1630 – 1800 IV-RT SECTION SESSION – TOPIC E, TOPIC F Hall 1

E-8 DEFINITION OF THE MAXIMUM-ADMISSIBLE HEIGHT OF A CONE-SHAPED SAILING TAKING INTO ACCOUNT ITS ANISOTROPY UNDER THE SCHEME OF AN IS RIGID-PLASTIC BODY
Chanyeshev A. I., Efimenko L. L.

E-10 APPROACH TO REMEDIATION OF LANDSLIDE ON THE WORKING BENCH IN BUCIM OPEN PIT MINE
Kircho Minov, Zoran Panov, Radmila Karanakova Stefanovska, Slobodan Stojanov, Blagica Doneva

E-11 PREVIEW OF IRRIGATION SYSTEM FOR THE DRMNO OPEN PIT MINE OUTER DUMP SOLUTION
Milanović R., Dimitrijević B., Vuković Z., Pavlović M.

E-12 DESIGN OF AN INTERNAL WASTE DUMP WITHIN THE BOUNDARIES OF THE OPEN PIT
Zoran Panov, Kircho Minov, Radmila Karanakova Stefanovska, Slobodan Stojanov, Blagica Doneva

ECOLOGICAL MONITORING. RECYCLING AND WASTE UTILIZATION. RECLAMATION OF BROKEN LANDS

F-1 CHARACTERSTICS OF THE AREA AND THE SUBSTARTERS CREATED BY OPEN-CAST COAL MINING IN THE KOLUBARA BASIN
Saša Ilić

DISCUSSION
22 June 2011

9:00 – 11:00  VTH SECTION SESSION – TOPIC F  Hall 1

CHAIRMANSHP

Dr. Eng. Konstantin Georgiev – Bulgaria, Mag. Eng. Bojan Dimitrijevic – Serbia,
Prof. Dr. Vladimir Scherba – Belarus, Mag. Eng. Ivan Cholakov – Bulgaria,
Assoc. Prof. Eng. Kiril Chobanov – Bulgaria

ECOLOGICAL MONITORING. RECYCLING AND WASTE UTILIZATION.
RECLAMATION OF BROKEN LANDS

F-2  ENVIRONMENT PROTECTION SYSTEM FOR TRANSPORT AND DISPOSAL OF
ASH AND GYPSUM FROM AES GALABOVO TPP TO NON-HAZARDOUS WASTE
DISPOSAL AREA
Huben Hubenov, Krasimir Galabov, Ivan Arseniev

F-4  EFFICIENT AND ECOLOGICALLY SAFE TECHNOLOGIES FOR OPENCAST
GEOENGINEERING EXTRACTION OF METALS IN ARTIFICIAL
FACILITIES IN SITU
Vladimir Danov

F-5  TECHNICAL RECLAMATION OF SLOPES OF WASTE DUMP OF COPPER
MINING
M. Petrov, R. Petrova

F-6  BIOLOGICAL RECLAMATION OF LAND DISTURBED IN OPEN PIT MINING OF
COPPER ORE (THE EXAMPLE OF "ASSAREL MEDET AD)
R. Petrova, M. Petrov

11:00 – 11:30  Coffee break

11:30 – 13:00  VI TH SECTION SESSION – TOPIC F, TOPIC G  Hall 1

CHAIRMANSHP

Prof. DSc. Stoyan Hristov, Prof. Dr. Aleksandr Tanaino - Russia, Dr. Eng. Konstantin
Georgiev, Mag. Eng. Ivan Arseniev, Dr. Eng. Irina Zayatz - Belarus

F-13  RELOCATION OF NEW AND REPLACING POWER UNITS DEPENDING ON THE
BALANCE OF LIGNITE RESERVES AND OPTIMISATION OF COAL SUPPLY IN
MARITSA EAST COMPLEX
Iv. Arseniev, R. Krastev, Kr. Bliznashki, V. Petrova

F-15  CONCENTRATION OF HEAVY METALS IN THE ENVIRONMENT AROUND
ZLETOVO MINES
Orce Spasovski, Trajce Mitev, Zlatko Sovreski
ECONOMY, ORGANIZATION AND MANAGEMENT OF THE TECHNOLOGICAL PROCESSES AND PRODUCTION WORKS IN THE OPEN AND UNDERWATER MINING OF MINERALS. MARKETS AND REALIZATION OF THE PRODUCTS

G-1 ECONOMIC AND FINANCIAL ANALYSIS OF INVESTMENT IN COAL MINE
Vucetic A., Stojanovic Lj., Pesic M., Vucetic S.

DISCUSSION

13:00 ЗАКРИВАНЕ НА КОНФЕРЕНЦИЯТА
CLOSING CEREMONY

19:00 GALA DINNER in the Restaurant of the International House of Scientists “Fr. J. Curie”

23 June 2011

POST CONFERENCE TOUR – “KAOLIN” JSCO (optional, at minimum 20 participants)
ПРОФЕСИОНАЛНА ЕКСКУРЗИЯ ДО “КАОЛИН” АД (по желание, при минимум 20 участника)

По време на конференцията се организира изложение на фирмите: ИОЕС, “БУЛЕКСПОРТКОНСУЛТ” ЕООД, “ГЕОРАДАР” ООД, “ЕЛТРАК БЪЛГАРИЯ” ЕООД във фоайето на МДУ „Фр. Ж. Кюри”.

During the conference the following companies IOES, BULEXPORTCONSULT Ltd., GEORADAR Ltd., ELTRAK BULGARIA Ltd. will be advertise their products and activities at the exhibition in the lobby of the International House of Scientists “Fr. J. Curie”.

Представяне на доклад: - пленарен – 15 min
- секционен – 10 min
Duration of the paper presentation - plenary paper - 15 min
- section paper – 10 min

Забележка: Организационният комитет си запазва правото да променя програмата.
Note: The Organizing committee has the opportunity to change the programme.