

MINISTERUL EDUCAȚIEI NAȚIONALE / MINISTRY OF NATIONAL EDUCATION
UNIVERSITATEA DIN PETROȘANI SI INCD-I.N.S.E.M.E.X. Petroșani
UNIVERSITY OF PETROSANI AND INCD-I.N.S.E.M.E.X. Petroșani



**SIMPOZION ȘTIINȚIFIC INTERNAȚIONAL MULTIDISCIPLINAR
INTERNATIONAL MULTIDISCIPLINARY SCIENTIFIC SYMPOSIUM**

”UNIVERSITARIA SIMPRO 2014”

PROGRAM

SUB EGIDA/ UNDER THE AUSPICES OF:

**Academia de științe tehnice din România/ Academy of Technical Sciences of Romania
Asociația generală a inginerilor din România/ General Association of engineers in Romania**

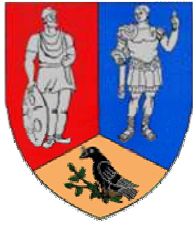
IN PARTENERIAT CU/ IN PARTNERSHIP WITH:

**Consiliul Județean Hunedoara/ Hunedoara County Council,
Primăria Municipiului Petroșani /Town Hall of the Municipality of Petroșani,
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MAXAM Romania,
Rosia Montana Gold Corporation Alba Iulia,
S.C. Deva Gold,
Societatea Națională a Carbunelui Ploiești /National Coal Company in Ploiești,
Asociația Absolvenților Universității din Petroșani, ALUMNI /
ALUMNI Association of the University of Petroșani**

10-11 OCTOBER, 2014

PETROȘANI

PARTENERI



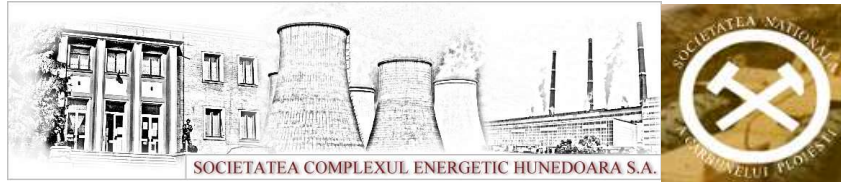
ASOCIAȚIA GENERALĂ A INGINERILOR
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SIMPRO 2014 Symposium Programme

OPENING CEREMONY

Aula Hall, Building A, date 10.10.2014, hours 10:00 - 10:30

Coffee break

Aula Hall, Building A hours 10:30- 11:00

INVITED SPEAKERS

Aula Hall, Building A, date 10.10.2014, hours 11:00 - 13:30

1. *A NEW TESTING METHOD FOR DETERMINATION OF UNCOFINED COMPRESSIVE STRENGTH (UCS): CORE STRANGLE TEST (CST),*

Prof. Dr. **Isik Yilmaz**, *Cumhuriyet University, Sivas, Turkey*

2. *IMPLEMENTATION OF REAL TIME GEOTECHNICAL MONITORING AT AN OPEN PIT MOUNTAIN COAL MINE IN WESTERN CANADA,*

Brian Klappstein, M.Sc., PGeo., Manager of Long Range Planning at GCC, Canada, **Gheorghe Bonci**, PhD, PEng. *Faculty at British Columbia, Institute of Technology, Canada, **Wayne Maston**, PEng., *Production Engineer Surface, Grande Cache Coal LP, AB, Canada*

3. *LASER SCANNING TECHNOLOGY. Applications to the Mining Industry,*

Carrie Davidson & Carles Xandri, *KRJA Systems Ltd trading as Maptek, UK*

4. *MANAGEMENT BY VALUES (MBV) CONDITIONS IN MINING INDUSTRY,*

Jan Kudelko¹, **Agata Juzyk**², **Leszek Zaremba**^{3,1}, *KGHM Cuprum Ltd Research and Development Centre, ²KGHM Polska Miedz S.A, ³ KGHM Cuprum Ltd Research and Development Centre*

5. *POLISH MINING INDUSTRY TODAY,*

Prof. D.Sc **Monika Hardigora**, *Ph. D, Wroclaw University of Technology, Wroclaw, President of KGHM CUPRUM Ltd. R&D Centre, Wroclaw, Poland*

6. *MUCK CLASSIFICATION: RAW MATERIAL OR WASTE IN TUNNELLING OPERATION,*

Dr. **C.Oggeri***, **T.M. Fenoglio***, **R.Vinai****; **DIATI Politecnico of Torino, Italy; **Queen's University, Belfast, Northern Ireland*

SESSIONS PROGRAM

1. SAFETY AND ENVIRONMENT ENGINEERING	
1.1 ENVIRONMENT ENGINEERING	
Location: Lab Ecopedologie, Bilding C, date 10.10.2014, hours 14:30 - 17:30...	
Chairman: Prof. Mircea Georgescu, Prof. Ildiko Tulbure	
No.	Paper / Authors / Affiliation
1	USING POTENTIAL OF BIOTECHNOLOGIES FOR ENVIRONMENTAL PROTECTION Ildiko Tulbure, <i>University "1 December 1918", Alba Iulia, Romania</i>
2	ASPECTS REGARDING MONITORING OF AIR POLLUTANTS EMISSIONS Angelica Călămar, George Artur Găman, Kovacs Marius, Toth Lorand, <i>INCD INSEMEX Petrosani, Romania</i>
3	STUDY OF SO₂ EMISSIONS RESULTED FROM COMBUSTION OF JIU VALLEY COAL Liana Simona Sbirna* , Clementina Sabina Moldovan **, <i>*University of Craiova,** University of Petrosani, Romania</i>
4	ROLE OF JIU VALLEY HARD COAL DEPOSITS BETWEEN EASTERN AND WESTERN EUROPEAN ENERGETIC CONSTRAINTS Grigore Buia, Csaba Lorinț, Ciprian Nimară, Radu Lupuleac, <i>University of Petrosani, Romania</i>
5	DEVELOPMENT AND IMPLEMENTATION OF WATER AND SOIL SAMPLING, ASSAYING AND ASSESSMENT PROCEDURES MEANT TO DETERMINE THE HUMAN IMPACT ON THE ENVIRONMENT Marius Kovacs, Gheție Gheorghe, Toth Lorand , Călămar Angelica, <i>INCD INSEMEX Petrosani, Romania</i>
6	ANTHROPIC IMPACTS ON THE ENVIRONMENTAL FACTORS AND ITS REDUCTION MEASURES WITHIN THE OLTET MINING PERIMETER Ioan Dumitrescu, Ciprian Nimară, <i>University of Petrosani, Romania</i>
7	ANALYSIS OF THE MEASURES FOR NO_x EMISSIONS REDUCTION RESULTING FROM FOSSIL FUELS BURNING AT DEVA THERMAL POWER PLANT FOR COMPLIANCE WITH THE EU ENVIRONMENTAL STANDARDS Gheorghe Laurentiu Dobrei, <i>University of Petroșani, Romania</i>
8	CALCULATION MODEL OF THE ALTITUDE MODIFICATION AS A RESPONSE OF THE GEOMORPHOLOGIC SYSTEM FOLLOWING ANTHROPOGENIC ACTIVITIES OF MINERAL RESOURCES EXPLOITATION Grigore Buia, Ciprian Nimară, <i>University of Petroșani, Romania</i>
9	INDICATORS OF SUSTAINABLE DEVELOPMET IN MINING Alina Adela Davidoiu, <i>University of Petroșani, Romania</i>
10	DESIGN OF CENTRIFUGAL HYDRAULIC CLASSIFIERS BASED ON HYDRODYNAMIC SIMILITUDE Catalin Vranceanu, Romulus Sârbu, <i>University of Petroșani, Romania</i>
11	DETERMINING THE AVALANCHE RISK INTO THE PARANG MOUNTAIN Roxana Herbei*, Aronel Matei*, Mihai Herbei**, <i>*University of Petroșani, **Banat University of Agriculture Sciences and Veterinary Medicine Timisoara, Romania</i>
12	RISK ASSESSMENT POLLUTION AND ECOTOXICOLOGICAL EFFECTS IN SITES ABANDONED MINING INDUSTRY IN ROMANIA Dunca Emilia, <i>University of Petroșani, Romania</i>
13	THE HUMAN FACTOR INFLUENCE ON THE ECOSYSTEM OF BATS Daniela Ionela Ciolea, Emilia Cornelia Dunca, <i>University of Petrosani, Romania</i>
14	NOISE ATTENUATION DUE TO PROPAGATION ENVIRONMENT PRODUCED BY MINING BAND CONVEYORS FROM OPEN PIT Aurora Stanci, Andreea Cristina Stanci, Dorin Tataru, <i>University of Petroșani, Romania</i>

1.2 OCUPATION HEALTH AND SALFY

Location: A7, Bilding A, date 10.10.2014, hour 14:00 - 16:00...

Chairman: Assoc. Prof. Iosif Moraru Roland, Dr. ing Emilian Ghicioi

1	ASSESSING RISK IN RAIL TRANSPORT AND ADMINISTRATION OF NON-INTEROPERABLE RAILWAY INFRASTRUCTURES WITHIN S.C. GRUP TRANSPORT FERROVIAR S.A Roland Iosif Moraru, Mihai Popescu-Stealea, <i>University of Petrosani, Romania</i>
2	INCREASING THE SECURITY ON PERFORMING BLASTING IN OPEN-CAST MINING, WITH THE ENSURANCE OF SEISMIC PROTECTION TO THE INDUSTRIAL / CIVIL OBJECTIVES SITUATED IN THEIR VICINITY Gabriel Vasilescu, Emilian Ghicioi, Attila Kovacs, Edward Gheorghiosu, Stefan Ilici Ilie-Ciprian Jitea, Sorin Bordos, <i>INCD INSEMEX Petrosani, Romania</i>
3	EXPERIMENTAL RESULTS FOR INTERNAL RESISTANCE VARIABILITY OF TESTING APPARATUS FOR LOW CURRENT CIRCUITS IN EXPLOSIVE ATMOSPHERES Marius Darie, Sorin Burian, Jeana Ionescu, Tiberiu Csaszar, Lucian Moldovan, Cosmin Colda, Adriana Andriș, <i>INCD INSEMEX Petrosani, Romania</i>
4	ENSURING THE SAFETY AND PRESERVATION OF THE HEALTH OF THE WORKERS BY THE USE OF PERSONAL PROTECTIVE EQUIPMENT (PPE) IN THE MINING INDUSTRY Nicoleta Crăciun, <i>The National Research and Development Institute of Occupational Safety (INCDPM) - "Alexandru Darabont", Romania</i>
5	THE STUDY OF FOAMING POWER OF SOME FOAM STICKS USED FOR DRAINING WATER FROM GAS WELLS Andra Tămas*, Martin Vincze**, <i>*Politehnica University of Timisoara, **Mopeka Impex SRL Timișoara, Romania</i>
6	RESEARCH ON THE CHANGES OF THE RESCUERS HEART RATE DURING TRAINING Daniel Pupazan, Artur George Gaman, Cosmin Ilie, Alin Irimia, <i>INCD INSEMEX Petrosani, Romania</i>
7	THE USE OF ROBOTS IN UNDERGROUND RESCUE ACTIONS Alin Irimia, George Artur Găman, Daniel Pupăzan, Cosmin Ilie, <i>INCD INSEMEX Petrosani, Romania</i>
8	INFLUENCE OF GAS GENERATED BY DETONATION OF EXPLOSIVES FOR CIVIL USES, ON THE WORK ENVIRONMENT Attila Kovacs, Cristian Raul Cioara, Gabriel Vasilescu, Emilian Ghicioi, Edward Gheorghiosu, Daniela-Carmen Rus, Ilie-Ciprian Jitea, <i>INCD INSEMEX Petrosani, Romania</i>
9	ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH THE CENTRAL TAILING POND IN THE EAST OF BAI A MARE CITY, ROMANIA Irina SMICAL, Ioan BUD, Simona DUMA, <i>Faculty of Mineral Resources and Environment, North University Centre of Baia Mare, Technical University of Cluj-Napoca,</i>

2 MINING ENGINEERING, SURVEYING AND CADASTRIAL AREA

2.1 MINING ENGINEERING

Location: A8, Bilding A, date 10.10.2014, hour 14:00 -17:00

Chairman: Prof. Ilie Onica, Dr. Doru Cioclea

No.	Paper / Authors / Affiliation
1	EVOLUTION OF COAL EXPLOITATION IN VALEA JIULUI DURING THE REORGANIZATION PROGRAMS AFTER 1990 Fănel-Radu Lupuleac, Eugen Cozma, Ilie Onica, <i>University of Petrosani, Romania</i>
2	PLOTTING THE CHARACTERISTIC CURVES FOR MINE VENTILATION FANS USING THE „VENTMEX” SOFTWARE Corneliu Boantă, Constantin Lupu, Nicolae-Ioan Vlasin, Doru Cioclea, Ion Gherghe, <i>INCD INSEMEX Petrosani, Romania</i>
3	NECESSITY TO VERIFY THE VENTILATION SYSTEMS OPERATING IN POTENTIALLY EXPLOSIVE AND/OR TOXIC ENVIRONMENTS Florin Rădoi, Doru Cioclea, Constantin Lupu, Ion Gherghe, Corneliu Boantă, Emeric Chiuzan, <i>INCD</i>

	<i>INSEMEX Petrosani, Romania</i>
4	RESEARCH REGARDING THE CURRENT STATE AND THE LATEST TRENDS IN CONSTRUCTION AND EXPLOITATION OF MINING POWER SUPPLY SYSTEMS <i>István-Adrian Szép, Marin Silviu Nan, University of Petrosani, Romania</i>
5	ANALYSIS OF MECHANIZED MINING TECHNOLOGIES FOR THE ROMANIAN ROCK SALT DEPOSITS <i>Ilie Onica, Eugen Cozma, University of Petrosani, Romania</i>
6	LANDFILL CAPACITY ASSESMENT AT WASTE DUMP VALEA ARSULUI - VULCAN COLLIERY <i>Adrian FLOREA, Maria LAZĂR, Csabi Lorint, University of Petrosani, Romania</i>
7	MEASURES, PROGRAMS AND LAWS ON THE RESTRUCTURING OF THE MINING ACTIVITIES IN ROMANIA AND THE EUROPEAN UNION <i>Mariana NEGRU, Marin Silviu NAN, University of Petrosani, Romania</i>
8	ANALYSIS OF AERODYNAMIC PARAMETERS SPECIFY A MAIN LOCAL STATIONS <i>Marius Simion Morar, Doru Cioclea, Ion Gherghe, Adrian Matei, INCD INSEMEX Petrosani, Romania</i>
9	TESTING THE RESISTANCE OF THE PROTECTIVE CLOTHING AGAINST CHEMICAL AGENTS IN ORDER TO ASSESS THEIR CONFORMITY <i>Irina Nălboc, Constantin Lupu, Maria Prodan, Andrei Szolloși Moța, INCD INSEMEX Petrosani, Romania</i>
10	PRIOR ESTABLISHMENT OF WORK ENVIRONMENT CHARACTERISTICS IN CASE OF THE OCCURRENCE OF AN UNDERGROUND EXPLOSION <i>Doru Cioclea, Constantin Lupu, Ion Gherghe, Florin Rădoi, Corneliu Boantă, Cristian Tomescu, Marius Cornel Șuvar, Nicolae Ioan Vlasin, Vlad Mihai Păsculescu, INCD INSEMEX Petrosani, Romania</i>
11	TECHNICAL-ECONOMIC INDICATORS FOR THE ASSESSMENT OF TECHNOLOGICAL SCHEMES OF MINES <i>Rosioru-Cioara Inga, Ilias Nicolae, University of Petrosani, Romania</i>
12	DIMENSIONING THE COAL FACES AND USE OF THE DESIGN SOFTWARE IN THE USED TECHNOLOGICAL CRITERION FROM OLTENIA'S LIGNITE COAL PITS <i>Antonie Daniel*, Ogarlaci Vasile*, Predoiu Ionut Cosmin*, Brujan (Predoiu) Mioara**, * S. OLTENIA ENERGY COMPLEX S.A. – Mining Division, ** University of Petrosani, Romania.</i>
2.2 SURVEYING AND CADASTRIAL AREA	
Location: L Topo 1, date 10.10.2014, hour 15:00-16:00...	
Chairman: Prof. Nicolae Dima, Prof. Wilhelm Stelling	
1	CONTRIBUTION TO SOLVING GEOMETRIC LEVELING UNDERGROUND NETWORKS <i>Ofelia-Larisa Filip, Nicolae Dima, Ioel Veres, University of Petrosani, Romania</i>
2	METHODS OF VALUING REAL ESTATE IN GERMANY <i>Wilhelm Stelling, University of Applied Sciences TFH Georg Agricola, Bochum, Germany</i>
3	USE INDEPENDENT PATHWAY TO TROUBLE POLYGONAL TOPOGRAPHY PIRCING MINING <i>Ofelia-Larisa Filip, Nicolae Dima, University of Petrosani, Romania</i>
4	POSSIBILITY OF SOLVING PROBLEMS IN CADASTRE <i>Ioel Veres, Nicolae Dima, Ofelia-Larisa Filip, University of Petrosani, Romania</i>
5	CONSIDERATIONS ON OVERALL STABILITY OF GAP CREATED, IN 22 DECEMBER 2010, IN TOWN OCNA MUREȘ, COUNTY ALBA <i>Raluca Farcaș, Nicolae Dima, University of Petrosani, Romania</i>

3. ROCK MECHANICS AND GEOTECHNICAL APPLICATIONS; CIVIL ENGINEERING

Location: A7, Bilding A, date 10.10.2014, hour 16:00 - 17:00...

Chairman: Prof. Lazar Avram, Prof. Valeriu Stoian ,

No.	Paper/Authors/Affiliation
1	RESEARCH ON LOAD CARRYING CAPACITY OF BASE TERRAINS OF THE WASTE DUMPS IN JIU VALLEY Maria Lazar, Adrian Florea, Florin Faur, <i>University of Petrosani, Romania</i>
2	GEOMECHANICAL RESEARCH ON THE STABILITY OF ACTIVE WASTE DUMPS FROM JIU VALLEY Oana Bărăiac, Victor Arad, Susana (Iancu) Apostu, Gheorghe Lasc, Vlad Cosma, <i>University of Petrosani, Romania</i>
3	PROGRESSIVE COLLAPSE SCENARIO SIMULATION Andrei Bindean, Valeriu Stoian, <i>"Politehnica" University of Timisoara, Romania</i>
4	CONSTRUCTION, DESIGN AND EVALUATION OF TAILINGS DAMS FOR NEW MINING PROJECTS Vlad Cosma, Gheorghe Lasc, Oana Bărăiac, Susana Iancu, <i>University of Petrosani, Romania</i>
5	CRITICAL ASPECTS ON SYSTEMS ECOLOGY EXPLORATION AND EXPLOITATION OF SHALE GAS Lazar Avram, Monica Emanuela Stoica, Tudora Cristescu, <i>Petroleum and Gas University of Ploiesti, Romania</i>

4. ELECTRICAL ENGINEERING AND ENERGETICS

Location: L8, Bilding A, date 10.10.2014, hour 15:00-17:00...

Chairman: Assoc. Prof. Marius Marcu, Assoc. Prof. Liliana Samoila,

No.	Paper/Authors/Affiliation
1	ANALYSIS OF FAULTS IN EXPLOSION PROOF ELECTRIC DRIVES AND CONCERNS FOR MODERNIZING THE MAINTENANCE AND REPAIRS OF MOTORS OPERATING IN EXPLOSIVE ATMOSPHERES Mihai Magyari, Sorin Burian, Martin Friedmann, Lucian Moldovan, Dragos Fotau, Cosmin Colda, <i>INCD INSEMEX Petroșani, Romania</i>
2	THE NEW EUROPEAN DIRECTIVE REGARDING THE EXPOSURE OF WORKERS TO THE RISKS ARISING FROM PHYSICAL AGENTS Beiu Constantin, Buica Georgeta, Anca Elena Antonov, <i>Institute for Labor Protection "Alexandru Darabont", Bucharest, Romania</i>
3	MEASURING AND ADJUSTING THE TEMPERATURE WITH CPU 224 PLC AND TD 200 OPERATOR INTERFACE SIEMENS Gabriel Nicolae Popa, Iosif Popa, Corina Maria Dinis, Angela Iagar, <i>Faculty of Engineering Hunedoara, Politehnica University Timisoara</i>
4	UPON ACHIEVEMENT OF THE USUAL FUNCTIONS OF TIME WITH PS-3 PLC KLÖCKNER – MOELLER Iosif Popa, Gabriel Nicolae Popa, Corina Maria Dinis, Sorin Ioan Deaconu, <i>Faculty of Engineering Hunedoara, Politehnica University Timisoara</i>
5	FUTURE OF COAL AND CHALLENGES IN ENERGY FIELD Susana Arad, Liliana Samoila, <i>University of Petrosani, Romania</i>
6	REDUCING ELECTRICITY CONSUMPTION AT WINDING MACHINES OPERATED BY INDUCTION MOTOR USING POWER ELECTRONICS Ilie Utu, Maria Daniela Stochitoiu, <i>University of Petrosani, Romania</i>
7	USING THE EASY PROGRAMABLE LOGIC CONTROLLERS TO THE MINING CONVEYORS BELT IN JILT OPEN PIT Maria Daniela Stochitoiu, Ilie Utu, <i>University of Petrosani, Romania</i>

8	METHODS FOR DETERMINING THE INSULATION RESISTANCE , Teodora Hristova, <i>University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria</i>
9	CONSIDERATIONS REGARDING THE TORQUE TEST FOR BUSHINGS AND THERMAL SHOCK TEST, APPLICABLE TO ELECTRICAL EQUIPMENT DESIGNED FOR USE IN EXPLOSIVE ATMOSPHERES Lucian Moldovan, Sorin Burian, Martin Friedmann, Mihai Magyari, Dragos Fotau, Cosmin Colda, <i>INCD INSEMEX Petrosani, Romania</i>
10	LOW POWER EMBEDDED SYSTEM APPROACH FOR POWER QUALITY CONTROL Gheorghe Marc, Mircea Risteiu, Ioan Ileana, <i>"1 Decembrie 1918" University of Alba Iulia, Alba Iulia, Romania</i>
11	THE IMPORTANCE OF OLTENIA'S COAL ANTONIE DANIEL*, OGARLACI VASILE*, PREDOIU IONUT COSMIN*, BRUJAN (PREDOIU) MIOARA**, * <i>S. OLTENIA ENERGY COMPLEX S.A. – Mining Division</i> , ** <i>University of Petrosani, Romania</i>
12	DESIGN AND SIMULATION OF HYBRID ISOLATED LOW POWER SYSTEM Sorin Deaconu, Marcel Topor, Corina Daniela Cunțan, Ioan Baci, Corina Maria Diniș, Gabriel Nicolae Popa, <i>Politehnica University of Timisoara, Romania</i>
13	ANALYSIS OF THERMIC STABILITY IN SHORT CIRCUIT REGIME OF ELECTRIC DISTRIBUTION NETWORKS CONDUCTOR , Leon Pana, Florin Gabriel Popescu, Razvan Slusariuc, Liliana Samoila, <i>University of Petrosani, Romania.</i>
14	THE QUANTIFICATION OF ENERGY EFFECT OF LOSSES IN TRANSPORT AND DISTRIBUTION HEATING NETWORK , Mija Eduard Aurelian, Iliș Nicolae, Preda Lucian, <i>Head of Commercial Service at CET. Paroseni, University of Petrosani, City Hall Petrila, Romania.</i>

5. SYSTEM CONTROL, APPLIED INFORMATICS AND COMPUTER ENGINEERING

Location: A3, Bilding A, date 10.10.2014, hour 14:30 -16:30...

Chairman: Prof. Emil Pop, Assoc. Prof. Nicolae Patrascoiu

No.	Paper/Authors/Affiliation
1	A SOLUTION FOR MONITORING CONVEYOR BELT Nicolae Patrascoiu, Ioana Camelia Barbu, Cecilia Rosulescu, <i>University of Petrosani, Romania, Grigore Geamanu Scool, Romania</i>
2	INFORMATION ROUTING IN WIRELESS SENSOR NETWORKS Ionut-Alin Popa, Emil Pop, <i>University of Petrosani, Romania</i>
3	INTELLIGENT SOFTWARE APPLICATION FOR CONTROL AND MONITORING OF DEGASSING PROCESS Vali Sirb, Angela Egri, Emil Sergiu Andras, <i>University of Petrosani, Romania, Eng. Mine Paroseni, Romania</i>
4	CHEAP WIRELESS MONITORING SOLUTION OF THE CONDITION FOR ELECTRIC MOTORS Bogdan Sochirca, Aron Poanta, <i>University of Petrosani, Romania</i>
5	MODELING AND SIMULATION OF A BIOENERGY SYSTEM FOR CAMPUS OF THE UNIVERSITY OF PETROSANI Adrian Nicolae Dinoiu, Emil Pop, Ioana Camelia Barbu, <i>University of Petrosani, Romania</i>
6	USING VIRTUAL INSTRUMENTATION IN DISTRIBUTED CONTROL SYSTEMS Nicolae Patrascoiu, Ioana Camelia Barbu, Cecilia Rosulescu, <i>University of Petrosani, Romania, Grigore Geamanu Scool, Romania</i>
7	SIMATIC "LADDER" PROGRAM FOR A CONVEYOR BELT Stelian Valentin Casavela, Cristofor Casavela, Antonio Casavela, <i>University of Petrosani, Romania</i>
8	MODELING AND SIMULATION OF THE VECTORIAL CONTROL SYSTEM WHICH CONTAIN AN EXTENDED GOPINATH OBSERVER Corneliu Mandrescu, Olimpiu Stoicuta , Nadia Stoicuta, <i>University of Petrosani, Romania</i>

INFORMATICS	
Location A3, Blding A, date 10.10.2014, hour 16:30 - 17:00...	
Chairman: Prof. Kec Wilhelm, Lecturer Dr. Preda Mircea	
9	INTEGER TRIANGLES WITH INTEGER MEDIANS Nicolae Nicolae, <i>Secondary School Number 6, Vulcan, Romania</i>
10	BUILDING A DATA WAREHOUSE FOR UNIVERSITY FROM PETROȘANI Preda Mircea, <i>University of Petrosani, Romania</i>
11	GENERATE GRAPHICAL TREE STRUCTURES FROM DATA STRUCTURES DBF Preda Mircea, <i>University of Petrosani, Romania</i>
6. MECHANICAL ENGINEERING AND TRANSPORT	
6.1 MECHANICAL ENGINEERING	
Location L12, Blding A, date 10.10.2014, hour 15:00 - 17:00...	
Chairman: Prof. Sorin Mihai Radu, Prof. Stefan Vöth	
No.	Paper/Authors/Affiliation
1	PRODUCTION OF CONSTRUCTION MATERIALS FROM POWER INDUSTRY WASTE Anghelescu Lucica, Chiroiu Corina Natalia, "Constantin Brâncuși" University of Târgu-Jiu, Romania, Radu Sorin Mihai, Dinescu Stela, <i>University of Petrosani, Romania</i>
2	STRUCTURAL, FUNCTIONAL AND ENERGETIC MARKERS OF REFRIGERATING INSTALLATIONS Vătavu Sorin, <i>University of Petroșani, România</i> , Vătavu Niculina, <i>INSEMEX Petroșani, România</i>
3	PROPERTIES OF FORM FITTING SAFETY COUPLINGS Vöth Stefan, Sippel Jan, <i>Technische Fachhochschule Georg Agricola, Center for Drive and Hoisting Technology, Bochum, Germany</i>
4	DIAGNOSIS OF WINDING ENGINE BRAKE MECHANISM IN BLIND SHAFT No. 15 IN PETRILA MINE Itu Răzvan-Bogdan, <i>University of Petroșani, România</i>
5	BREAKING CASE REHABILITATION AND TECHNICAL VERIFICATION OF BREAKING SYSTEM IN THE MK 2,1 x 4 WINDING ENGINE MOUNTED IN LONEA MINE SKIP SHAFT Itu Vilhelm, Itu Răzvan-Bogdan, <i>University of Petroșani, România</i>
6	RESEARCH AND CONTRIBUTIONS REGARDING THE OPERATION OF A STATIONARY MONITORING SYSTEM FOR GAS LEAKS AND EMISSIONS IN TERMS OF COALFIELD AND POWERPLANT AREAS Nan Marin Silviu , Șimon Adrian Bogdan, <i>University of Petroșani, România</i>
7	STATE OF STRAIN AND DISPLACEMENTS FROM THE STRUCTURE OF THE EXTRACTING TOWER IN THE CASE OF APPLICATION OF THE SAFETY BRAKE Pop Ioan Alexandru, Radu Sorin Mihai, <i>University of Petroșani, România</i>
8	STUDY ON THE RESISTANCE OF THE CHASSIS-TANK CONNECTION TO THE LOADS THAT APPEAR IN USE Radu Sorin Mihai, <i>University of Petroșani, România</i> , Tănăsoiu Bogdan, <i>drd at Illinois Institute of Technology</i> ; Aonofriesei Ioan, <i>University of Petroșani, România</i>
9	TESTS ON INERTISATION OF OIL SLUDGE RESULTED FROM OIL EXTRACTION ACTIVITIES Rus Ioan Constantin, Pop Gheorghe, <i>University of Petroșani, România</i>
10	THE DECREASE OF THE MECHANICAL STRESSES AND THE REDUCTION OF THE DISTORTIONS OCCURED IN THE FLEXIBLE JOINTS OF THE GLIDING STEEL TIMBERING Simaschevici Alexandru, Simaschevici Horia, <i>University of Petroșani, România</i>
11	STRUCTURAL AND FUNCTIONAL SOLUTIONS FOR THE IMPROVEMENT OF THE SLIDING STEEL MINE TIMBERING Simaschevici Alexandru, Simaschevici Horia, <i>University of Petroșani, România</i>
12	METHODOLOGY OF ESTABLISHING RESIDUAL LIFETIME OF LIFTING INSTALATION BY NON-DESTRUCTIVE METHODS

	Vîlceanu Florin , Radu Sorin Mihai, Ridzi Mihai Carmelo, <i>University of Petroșani, România</i>
13	THERMAL ENERGY BALANCE FOR THE BLOCK NO. 5 AT MINTIA POWER PLANT Gheorghe Laurențiu DOBREI ¹ , Dan Codruț PETRILEAN ¹ , Ioan CONȚ ² , Claudiu Doinel CRIȘAN ² , Traian VASIU ² , ¹ <i>University of Petrosani</i> , ² <i>Deva Electroc centrale</i>

6.2 TRANSPORT ENGINEERING

Location A6, Bilding A, date 10.10.2014, hour 14:00-15:30

Chairman:: Prof. Ion Copaci, Prof. Marin Silviu Nan

No.	Paper/Authors/Affiliation
1	ON THE EFFECTS CAUSED BY THE SHOCK DURING RAILWAY VEHICLE BUFFING Copaci Ion, Tănăsioiu Aurelia, <i>Universitatea „Aurel Vlaicu” Arad, România</i> , Aonofriesei Ioan, <i>University of Petroșani, România</i>
2	RESEARCH ON THE CONSTRUCTION AND FUNCTION OF THE ROAD VEHICLES SUSPENSION SYSTEMS Nan Marin Silviu, Secara Monia Camelia, Grecea Danuț, Popescu Dorina, <i>University of Petroșani, România.</i>
3	THE STUDY OF CONSTRUCTIVE FUNCTIONAL ASPECTS OF THE STEERING SYSTEM FOR MOTOR ROAD STEADS Secara Monia Camelia, Nan Marin Silviu, Tutuianu Gabriel, Grecea Danuț, <i>University of Petroșani, România</i>
4	RESEARCH ON THE POSSIBILITIES OF IMPROVING THE VULCANIZATION RUBBER CONVEYOR BELTS Armășioiu Petre, Florea Vlad Alexandru, <i>University of Petroșani, România</i>
5	OPTIMUM DESIGN OF A MULTIPLE-PIPE ABOVE-GROUND PIPELINE Virág, Zoltán, <i>University of Miskolc, Hungary</i>
6	GRAPHICAL INTERFACE FOR EXPERIMENTAL ANALYSIS OF NONDESTRUCTIVE TESTING OF DRILL PIPES Stan Ioana Gabriela, Niculae Georgeta Claudia, <i>Universitatea .Petrol și Gaze Ploiesti, România</i>

6.3 MINING EQUIPMENT

Location; A6, Bilding A, date 10.10.2014, hour 15:30 -17:30...

Chairman: Prof. Iosif Andras, Assoc. Prof. Iosif Dumitrescu

No.	Paper/Authors/Affiliation
1	STUDY THE POSSIBILITIES OF IMPROVING TECHNOLOGICAL EQUIPMENT MAINTENANCE ACTIVITY FROM QUARRIES Tihanov Tănăsache Daniel, Florea Vlad Alexandru, <i>University of Petroșani, România</i>
2	STUDY ON THE ESTIMATION OF THE DEMAND OF SPARE PARTS BY USING THE RENEWAL PROCESS Tomuș Ovidiu-Bogdan, Iosif Kovacs, Jula Dumitru, <i>University of Petroșani, România</i>
3	MANAGEMENT OF THE VENTILATION NETWORK AT VULCAN MINING UNIT Morar Marius Simion, <i>INSEMEX Petroșani, România</i> , Sorin Mihai Radu, <i>University of Petroșani, România</i> , Doru Cioclea, Ion Gherghe, <i>INSEMEX Petroșani, România</i>
4	STUDY OF THE MINING PRODUCTION SYSTEMS, PROCESSES AND COMPONENTS USING ARTIFICIAL INTELLIGENCE METHODS Dinescu Stela, Andraș Andrei, <i>University of Petroșani, România</i>
5	THE SYNTHESIS COMPLEX MECHANISM OF GUIDING ROOF SUPPORTS FOR THE COAL MINING Dimirache Gabriel, Zamora Adriana, <i>University of Petroșani, România</i>

6	OPPORTUNITIES FOR USING THE FINITE ELEMENT METHOD BY COMPUTER RESEARCH ON A ROTARY CRUSHER OF THE ECCENTRIC TYPE 800Dx75 Iliev Zhivko, Perenovski Nikolay, Assistant Professors, <i>University of Mining and Geology, Sofia</i>
7	SIMPLE PULLEY BLOCK TO HOIST THE SKIP IN LUPENI MINE Dumitrescu Iosif, Itu Răzvan-Bogdan, <i>University of Petroșani, România</i>
8	PRESENT STAGE AND TENDENCIES IN THE MANAGEMENT AND MONITORING MODERNIZATION SYSTEMS OF EXTRACTION Grecea Dănuț, Nan Marin Silviu, <i>University of Petroșani, România</i>
9	RESEARCH AND RESULTS REGARDING ENVIRONMENTAL PROTECTION DURING THE REVERSE OSMOSIS USED FOR THE TREATMENT OF WASTEWATER FROM URANIUM PROCESSING Stănilă Sorina Daniela, Jula Dumitru, <i>University of Petroșani, România</i>
10	SUBLEVEL CAVING SHIELDS AND THEIR UTILIZATION IN MINING OUT DISTURBED THICK COAL SEAMS Kamburov, Stefan Milenov; Molnár, József , <i>University of Miskolc, Hungary</i>

8. MANAGEMENT AND MARKETING

Location A5, Bilding A, date 10.10.2014, hour 15:00-16:30...

Chairman: Prof. Sabina Irimie, Prof. Florian Bușe

No.	Paper/Authors/Affiliation
1	ECONOMIC EFFICIENCY OF QUALITY Bușe Florian, Dobrițoiu Nicolae, , Mangu Sorin-Iuliu, Bușe Gheorghe-Florin, <i>University of Petrosani, Petrosani, Romania</i>
2	LEADERSHIP CHALLENGES OF TODAY'S MANAGERS: OVERVIEW OF APPROACHES AND A STUDY IN ROMANIA Irimie Sabina, Băleanu Virginia, Suci Cristina, Filip Elena, <i>University of Petrosani, Petrosani, Romania</i>
3	HIGH PERFORMANCE WORK PRACTICES FOR HUMAN RESOURCES; AMO MODEL Munteanu Anca, <i>West University of Timișoara, Romania</i>
4	THE DYNAMICS OF CLUSTERING PROCESSES IN EUROPE Maticiu Mădălina, <i>West University of Timișoara, Romania</i>
5	ENGINEERING AND MANAGEMENT AT THE UNIVERSITY OF PETROSANI, Edelhauser Eduard, Csiminga Diana, Tiuzbaian Ioan Nicolae, Munteanu Rares, Furdui Ersilia, <i>University of Petrosani, Petrosani, Romania</i>
6	THE ROLE OF INNOVATION IN ENTREPRENEURIAL DEVELOPMENT Ghicajanu Mihaela, Dobre –Baron Oana, <i>University of Petrosani, Petrosani, Romania</i>
7	QFD BASED SOFTWARE FOR AN INNOVATIVE MEDICAL DEVICE ANALYSIS Ionică Andreea, Monica Leba, Remus Dobra, <i>University of Petrosani, Petrosani, Romania</i>

9. ECONOMICS AND PUBLIC ADMINISTRATION

Location Sală Consiliu Facultatea de Științe, Bilding A, date 10.10.2014... hour 15:00-17:30...

Chairman: Assoc. Prof. Codruța Dura, Assoc. Prof. Ilie Răscolean

No.	Paper/Authors/Affiliation
1	SOME USEFUL TOOLS FOR MARKET SEGMENTATION: CRITERIA, STRATEGIES AND METHODS Codruța Dura, Imola Drigă, <i>University of Petrosani, Romania</i>
2	THE FINANCIAL SECTOR AND THE ROLE OF BANKS IN ECONOMIC DEVELOPMENT Imola Drigă, Codruța Dura, <i>University of Petrosani, Romania</i>
3	FINANCIAL GLOBALIZATION: CONCEPTS AND MAIN TRENDS Valentina Fetiniuc, Ivan Luchian, <i>International Institute of Management IMI-NOVA Chisinau, Republic of Moldova</i>
4	ONLINE CENTRALIZATION OF ECONOMIC AGENTS DECLARATIVE STATEMENTS Alin Isac, Claudia Isac, <i>University of Petrosani, Romania</i>

5	ISSUES CONCERNING THE MAIN TOOLS OF FINANCIAL PLANNING AND CONTROL IN THE PUBLIC SYSTEM <i>Maria Măcriș, University of Petrosani, Romania</i>
6	ROMANIAN INSURANCE MARKET: SIZE, STRUCTURE AND TRENDS <i>Mirela Monea, Ana Preda, University of Petrosani, Romania, University of Craiova, Romania</i>
7	THE ANALYSIS OF GROSS WRITTEN PREMIUMS IN THE MAJOR REGIONS OF THE WORLD, BEFORE, DURING AND AFTER FINANCIAL CRISIS <i>Ana Preda, Mirela Monea, University of Craiova, Romania, University of Petrosani, Romania</i>
8	THE PREROGATIVE OF IMPLEMENTING AN EFFECTIVE INTERNAL CONTROL OF INVENTORIES IN THE ECONOMIC ENTITIES <i>Bogdan Răvaș, University of Petrosani, Romania</i>
9	DEVELOPMENT OF ACCOUNTING THEORY FROM THE PERSPECTIVE OF COMPLEXITY OF FINANCIAL INSTRUMENTS <i>Sabin Armăsescu, University of Craiova, Romania</i>
10	CORPORATE PERFORMANCE DETERMINANTS. EVIDENCE OF DIFFERENCES ACROSS SECTORS <i>Sorana Vatavu, West University of Timisoara, Romania</i>
11	CONSIDERATIONS REGARDING TO ACHIEVING THE FINANCIAL EQUILIBRIUM TO MICRO ECONOMICAL LEVEL <i>Ilie Răscolean, Gabriela Slusariuc, University of Petrosani, Romania</i>
12	COMPETITIVENESS – KEY FOR ECONOMIC DEVELOPMENT. STUDY CASE AMONG THE CENTRAL AND EASTERN ECONOMIES IN UE <i>Emilia Ungureanu, Felix-Constantin Burcea, University of Pitesti, Romania, ASE Bucuresti, Romania</i>

10. SOCIO – HUMAN SCIENCES

Location A10, Bilding A, date 10.10.2014, hour 14:00-15:30...

Chairman: Lecturer Felicia Andrioni, Lecturer Lavinia Hulea

No.	Paper/Authors/Affiliation
1	JIU VALLEY'S DEMOGRAPHIC DIMENSIONS AT THE INTERSECTION OF SOCIO-ECONOMIC TRANSFORMATIONS <i>Felicia Andrioni, Mariana Anghel, University of Petrosani, Romania, and Lavinia Elisabeta Popp, University "Eftimie Murgu" Reșița, Romania</i>
2	THE MINER'S ALMANACH. 1935-1938 <i>Mircea Baron, Oana Baron, University of Petrosani, Romania</i>
3	EMOTIONAL INTELLIGENCE AND JOB PERFORMANCE <i>Izabella Eisler, INSEMEX, Romania</i>
4	CURATIVE EDUCATION PERSPECTIVE ON TEMPERAMENTS <i>Miron Golașie, Curative Education Center Simeria, Romania</i>
5	VICTORIAN AGE - A CONTEXT <i>Lavinia Hulea, University of Petrosani, Romania</i>
6	STUDY THE POSSIBILITY OF INCREASING THE CAPACITY OF SERVICE OF MINING GROUNDWATER BY IMPROVEMENT OF PHYSICAL STATE <i>Cristian Ilioni, Marin Silviu Nan, University of Petrosani, Romania</i>

17:30- End of sessions

18:00-Departure for Hotel Rusu -Award ceremony and dinner