



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

”UNIVERSITARIA SIMPRO 2016”

SUB EGIDA/ UNDER THE AUSPICES:

**ACADEMIA OAMENILOR DE ȘTIINȚĂ DIN ROMÂNIA/ ACADEMY OF ROMANIAN SCIENTISTS
ACADEMIA DE ȘTIINȚE ȚEHNICE 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,
Primaria Municipiului Petroșani /Town Hall of the Municipality of Petroșani,
Primaria Municipiului Vulcan / Town Hall of Municipality of Vulcan,
Primaria Orasului Petrila / Town Hall of Petrila,
Czestochowa University of Technology
Asociația Absolvenților Universității din Petroșani, ALUMNI
/ALUMNI Association of the University of Petroșani
Sindicatul CDPM / CDPM Union**

SYMPOSIUM PROGRAM



14 – 15 OCTOBER, 2016

PETROȘANI

UNIVERSITARIA SIMPRO 2016

- SYMPOSIUM PROGRAM -

Thursday, 13 October 2016 / Joi, 13 octombrie 2016

16⁰⁰ -19⁰⁰ Registration / Înregistrarea participanților, **Corp/Building C**
19⁰⁰ Welcoming Cocktail / Recepția de primire, **Restaurant U.P.**

Friday, 14 October 2016 / Vineri, 14 octombrie 2016

08⁰⁰ - 9³⁰ Registration / Înregistrarea participanților, **Aula Magna**
09³⁰ -10³⁰ Opening ceremony / Festivitatea de deschidere, **Aula Magna**
10³⁰ -11⁰⁰ Coffe break / Pauză de cafea
11⁰⁰ -13⁰⁰ Plenary lectures / Lucrări în plen, **Aula Magna**

13⁰⁰ -14³⁰ Lunch break / Pauză de masă, **Restaurant U.P.**
14³⁰ -18³⁰ Parallel sessions / Prezentarea lucrărilor pe secțiuni
19⁰⁰ Gala dinner / Masă festivă, **“Belle Epoque” Restaurant**

Saturday, 15 October 2016 / Sâmbătă, 15 octombrie 2016

10⁰⁰ -11³⁰ Round table
„Prospects for the use of coal in the economy”
Gerom International Conference Hall

Optional:

08⁰⁰ - 18³⁰ Field trip in Hunedoara County, historical and cultural heritage visit /
Excursie județul Hunedoara și vizitarea unor obiective istorice și culturale
(Densuș, Sarmisegetuza, Castelul Corvinilor, Catedrala Ghelari)
Departure / Plecare – Corp/Building C



14-15 OCTOBER 2016

UNIVERSITY OF PETROȘANI

VIVAT, CRESCAT, FLOREAT!

INVITED KEYNOTE SPEAKERS

Aula Magna Hall, Building A, date 14.10.2016, hrs. 11:00 – 13:00

1. ANOTHER POINT OF VIEW ON SUSTAINABLE MANAGEMENT

Keynote Speaker: Dr h.c. dr hab. Inż. Prof. P.Cz. JANUSZ K. GRABARA, Czestochowa University of Technology, Faculty of Management, POLAND



2. MINING AND SUSTAINABILITY – A CONTRADICTION?

Keynote Speaker:

Prof. Dr. E.h. CARSTEN DREBENSTEDT, Professor für Bergbau-Tagebau an der Technischen Universität, Bergakademie Freiberg, Institut für Bergbau und Spezialtiefbau, Mitglied der Sächsischen Akademie der Wissenschaften, *GERMANY*.



3. SOME PROBLEMS FOR ASSESSMENT OF FIRE IN ROAD TUNNELS

Keynote Speaker: Professor Dr. T.Sc. Omar LANCHAVA, G.Tsulukidze Mining Institute and The Institute of Structures, Special Systems and Engineering Maintenance of the Georgian Technical University – Senior Scientist, GEORGIA.



4. SOME QUESTIONS OF MINE SAFETY OF SMALL MINES IN HUNGARY

Keynote Speaker: Professor, Ph.D., JOZSEF MOLNAR, Miskolci Egyetem, Műszaki Földtudományi Kar Bányászati és Geotechnikai Intézeti Tanszék, HUNGARY.



5. KNOWLEDGE ENGINEERING IN BIO-MEDICAL INFORMATICS

Keynote Speaker: Prof. Dr. ABDEL-BADEEH M SALEM – Professor Emeritus of Computer Science at Faculty of Computer and Information Sciences, Head of Artificial Intelligence and Knowledge Engineering Research Labs, Abbasia, Ain Shams University, Cairo, EGYPT.



PARALLEL SESSIONS

FRIDAY 14.10.2016, 14³⁰ – 18¹⁵

1. ADVANCES IN SAFETY SCIENCE AND ENVIRONMENTAL ENGINEERING	
1.1. ADVANCES IN SAFETY SCIENCE AND ENVIRONMENTAL MANAGEMENT	
Location: Conference Hall, University Library Building	
14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Omar LANCHAVA, Dr.eng. Constantin LUPU	
1	Doru-Costin Darabont , Roland Iosif Moraru, Anca Elena Antonov, Costică Bejinariu <i>MANAGING NEW AND EMERGING RISKS IN THE CONTEXT OF ISO 45001 STANDARD</i>
2	Krystyna Skibniewska , Wojciech Rejmer, Paulina Drożyner, Karolina Szwarz, <i>IRRIGATION OF ENERGY DEDICATED CROPS AS A METHOD TO UTILIZE THE POST-FERMENTATION EFFLUENT</i>
3	Nicolae Iliș, Omar Lanchava , Giorgi Nozadze, <i>NUMERICAL MODELING OF FIRES FOR ROAD TUNNELS WITH LONGITUDINAL VENTILATION SYSTEM</i>
4	Omar Lanchava , Nicolae Iliș, Giorgi Nozadze, <i>SOME PROBLEMS FOR ASSESSMENT OF FIRE IN ROAD TUNNELS</i>
5	Omar Lanchava , Guram Abashidze, Davit Tsverava, <i>SECURING FIRE SAFETY FOR UNDERGROUND CONSTRUCTIONS</i>
6	Daniel Pupăzan , Artur George Găman, Cosmin Ilie, Angelica Călămar, Alin Irimia, Andrei Gireadă, <i>TRAINING METHODS FOR INTERVENTION AND RESCUE PERSONNEL IN CONFINED SPACES DEPENDING ON THEIR PHYSIOLOGICAL PARAMETER CHANGES</i>
7	Steluta Elisabeta Nisipeanu , Elena-Ruxandra Chiurtu, Doru-Costin Darabont, <i>INCREASING OF THE OCCUPATIONAL SAFETY AND HEALTH PERFORMANCES, ACCORDING TO ISO 45001, WITH RESPECT OF THE REGULATION (EC) NO 1907/2006 ON THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH)</i>
8	Gabriel Bujor Băbuș , Roland Iosif Moraru, <i>GENERAL PRINCIPLES AND FRAMEWORK OF MACHINERY RISK MANAGEMENT</i>
9	Bernevig-Sava Mihai-Adrian , Ionita Iulian, Baciuc Constantin, Darabont Doru Costin, Laluci Alexandru, Cazac Alin Marian, Bejinariu Costică, <i>IMPROVING SAFETY IN THE WORKPLACE USING CHECKLISTS LEGAL REQUIREMENTS</i>
10	Attila Kovacs , Gabriel Vasilescu, Edward Gheorghiosu, Daniela Rus, Ilie-Ciprian Jitea, Sorin Bordoș, <i>APPROPRIATE MANAGEMENT OF PREVENTING ACTIONS AN HEALTH AND SAFETY FOR TESTING ACTIVITIES OF HIGH EXPLOSIVES IN CONFINED ENVIRONMENT</i>
16¹⁵ Coffee break	
16³⁰ – 18¹⁵ Chairpersons: Prof.dr. Lucian-Ionel CIOCA, Dr.eng. Doru-Costin DARABONT	
11	Georgeta Buică, Anca Elena Antonov , Constantin Beiu, Dragos Pasculescu, Dobra Remus <i>OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT IN CONSTRUCTION SECTOR - THE COST OF WORK ACCIDENTS</i>
12	Daniela Rus, Gabriel Vasilescu , Attila Kovacs, Edward Gheorghiosu, Ilie-Ciprian Jitea, <i>IMPROVING THE GROUP DECISION BY OPTIMIZATION OF RISK MANAGEMENT FOR SPECIFIC ACTIVITIES WITH EXPLOSIVES FOR CIVIL USE</i>
13	Vlad Mihai Păsculescu , Nicolae Ioan Vlasin, Daniel Florea, Marius Cornel Șuvar, <i>IMPROVING THE QUALITY OF THE PROCESS FOR SELECTING ELECTRICAL EQUIPMENT INTENDED TO BE USED IN POTENTIALLY EXPLOSIVE ATMOSPHERES</i>
14	Fîță Nicolae Daniel , <i>IDENTIFYING OF VULNERABILITIES/RISK FACTORS OF THE CRITICAL INFRASTRUCTURE IN THE POWER INSTALLATIONS OF ULTRA HIGH AND HIGH VOLTAGE FROM THE NATIONAL POWER SYSTEM WITH INTERNATIONAL CONNECTIONS</i>
15	Anca Elena Antonov, Georgeta Buica , Doru Costin Darabont, Constantin Beiu, <i>PROFESSIONAL RISK MANAGEMENT FOR WORK EQUIPMENT IN WOOD AND METAL PROCESSING INDUSTRY</i>
16	Marius Simion Morar , Sorin Mihai Radu, Doru Cioclea, Ion Gherghe, <i>USE IT EQUIPMENT AND SPECIALIZED PROGRAMS FOR SOLVING VENTILATION NETWORKS</i>

17	Nicolae-Ioan Vlasin , Vlad-Mihai Păsculescu, Daniel Florea, Eugen Cozma, Marius Șuvar, <i>RESEARCH OF AIR-METHANE EXPLOSIONS USING HIGH SPEED IMAGERY ANALYSIS</i>
18	Ezio Ranieri , Comasia Montanaro, Ada Cristina Ranieri, Vincenzo Campanaro, Lucian Ionel Cioca, <i>MUNICIPAL SOLID WASTES IN THE SOUTH-EASTERN MEDITERRANEAN REGION: QUALITY, QUANTITY AND MANAGEMENT</i>
19	Pedram Roghanchi, Karoly C. Kocsis , George Danko, Andrew Powell, <i>UNDERGROUND CLIMATIC MONITORING AND MODELING: ARE WE MISSING SOMETHING?</i>
20	Izabela Ziębacz, Roland Iosif Moraru , <i>TENDENCIES OF RISKY BEHAVIOR OF EMPLOYEES IN TERMS OF EVOLUTIONARY PSYCHOLOGY</i>

1.2. ADVANCES IN SAFETY SCIENCE AND ENVIRONMENTAL ENGINEERING

Location: Periodicals Hall, University Library Building

14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Ioan DUMITRESCU, Dr.eng. Mihaela PĂRĂIAN

1	Angelica-Nicoleta Călămar , George Artur Găman, Marius Kovacs, Daniel Pupăzan, Lorand Toth, <i>ANALYSIS OF POLLUTANT IMISSIONS GENERATED BY BONE MEAL PRODUCTION</i>
2	Simion Sorin, Angelica Călămar , Daniel Pupăzan, Marius Kovacs, Toth Lorand, <i>STUDY ON CONCENTRATIONS OF POLLUTANTS IN FLUE GASES GENERATED BY THE PRODUCTION OF CERAMIC BUILDING MATERIALS</i>
3	S.N. Platon, A. Tudor, D. Badea, I. Ciocan, <i>OCCUPATIONAL NOISE. RISK ASSESMENT HEARING LOSS USING HOMOGENOUS EXPOSURE NOISE GROUPS</i>
4	Zerbeș Mihai-Victor , Cioca Lucian-Ionel <i>THE MODELLING OF THE IMPROVING ENVIRONMENTAL ASPECTS PROCESS AND OF THE ASSOCIATED IMPACTS IN INDUSTRIAL ORGANIZATIONS</i>
5	Teodora Hristova , <i>MEASURES FOR RESTRICTING CORROSION OF A MOTOR DRIVE SUBJECTED TO ATMOSPHERIC CORROSION IN THE PLANT FOR WASTEWATER TREATMENT</i>
6	Ioan Dumitrescu, Ciprian Nimară <i>HEALTH ANALYSIS OF RESIDENTS NEAR THE COAL DEPOSIT - ROȘIUȚA COAL PIT</i>
7	Viorica Petreanu , Raluca Maria Iordache, Doru Costin Darabont <i>FIELD STUDY ON PROFESSIONAL EFFORT IN SOME GAS TRANSPORT ACTIVITIES</i>
8	Doru Cioclea, Ion Gherghe , Florin Rădoi, Corneliu Boantă, Nicolae Ianc <i>MANAGING VENTILATION RE-ESTABLISHMENT AFTER AN AVERAGE INTENSITY EXPLOSION</i>
9	Andrei Gireadă , Daniel Pupăzan, Angelica Călămar, Cosmin Ilie, Alin Irimia, <i>INCREASING THE CAPACITY OF THEORETICAL AND PRACTICAL TRAINING FOR INTERVENTION AND RESCUE PERSONNEL IN TOXIC/ EXPLOSIVE/ FLAMMABLE ENVIRONMENTS BY USING CHEMICAL PROTECTION EQUIPMENT</i>
10	Ilie-Ciprian Jitea, Gabriel Vasilescu , Attila Kovacs, Sorin Bordoș, Mircea Grecea <i>THE ANALYSIS OF THE INFLUENCE OF FUNCTIONING PARAMETERS FOR FIREWORKS AND FIREWORKS FOR PROFESSIONAL USE</i>

16¹⁵ Coffee break

16³⁰ – 18¹⁵ Chairpersons: Conf.dr. Gabriel BĂBUȚ, Dr.eng. Angela CĂLĂMAR

11	Maria Prodan , Irina Nălboc, Andrei Szollosi-Moța, <i>MINIMUM IGNITION TEMPERATURE OF DUST CLOUD ANALYSIS FOR SAFE INDUSTRIAL PROCESSES</i>
12	Nicoleta Crăciun , <i>THE PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM HEIGHT AT THE LIMIT BETWEEN RISK AND SECURITY</i>
13	Ramona Giurea , Achim Moise Ioan, Marco Ragazzi, Lucian-Ionel Cioca <i>FOCUSING AGRO-TOURISM STRUCTURES FOR ENVIRONMENTAL OPTIMIZATION</i>
14	Tataru Dorin, Tataru Andreea Cristina , Stanci Aurora, <i>LANDSCAPING SOLUTIONS OF TAILINGS PONDS OF THERMOELECTRIC POWER PLANTS USING VINE PLANTS</i>
15	Radu Mareș , Mihai Popescu - Stelea, Nicolae Băncilă-Afrim, <i>ACCIDENT RISK ASSESSMENT FOR THREE WORKING PLACES FROM AN INDUSTRIAL ASSEMBLY WORKSHOP</i>
16	Rădoi Florin, Gherghe Ion, Tomescu Cristian , Chiuzan Emeric, Boantă Corneliu, <i>METHODS AND TOOLS FOR DETERMINING AIR-FLOW IN INDUSTRIAL VENTILATION INSTALLATIONS</i>

17	Emeric Chiuzan , Constantin Lupu, Dorel Tamaş, Cristian Tomescu, Ion Gherghe, Adrian Matei, <i>CLASSIFICATION METHODOLOGY OF UNDERGROUND MINING ACTIVITIES AT TARGU OCNA SALT MINE, IN TERMS OF GAS EMISSIONS</i>
18	Elena Cristina Rada , Marco Ragazzi, Lucian Ionel Cioca, Gabriela Ionescu, Ezio Ranieri, Ettore Trulli, <i>RENEWABLE ENERGY IN THE ALPS: A CASE STUDY</i>
19	Marco Ragazzi , Giorgia Passamani, Gianluca Antonacci, Ilaria Todeschini, Andrea Cemin, Elena Cristina Rada, Roland Iosif Moraru, <i>QUANTIFICATION OF THE ENVIRONMENTAL IMPACTS IN THE TRANSPORTATION OF MARBLE: A CASE STUDY</i>
20	Marco Ragazzi, Giorgia Passamani, Gianluca Antonacci, Ilaria Todeschini, Andrea Cemin, Elena Cristina Rada, Cristiana Morosini, Roland Iosif Moraru, Vincenzo Torretta , <i>METHODOLOGICAL CRITICAL ISSUES FOR THE ASSESSMENT OF THE ENVIRONMENTAL IMPACTS FROM TRANSPORT OF MARBLE: A CASE STUDY</i>
21	Roland Iosif Moraru , Băbuş Gabriel, Nicolae Bancila-Afrim, Radu Mares <i>OCCUPATIONAL SAFETY RISK ANALYSIS TOOLS DEPICTION IN A SELECTED OFF-SHORE DRILLING COMPANY</i>
22	Ezio Ranieri , Comasia Montanaro, Ada Cristina Ranieri, Vincenzo Campanaro, Lucian Ionel Cioca, <i>MUNICIPAL SOLID WASTES IN THE SOUTH-EASTERN MEDITERRANEAN REGION: QUALITY, QUANTITY AND MANAGEMENT</i>
23	Mihai Popescu - Stelea , George Bălan, Nicolae Băncilă-Afrim, <i>THE PLACE AND ROLE OF PROACTIVE SAFETY BEHAVIOR IN OCCUPATIONAL RISK MANAGEMENT</i>
2. SUSTAINABLE MINING ENGINEERING AND SURVEYING	
3. CHALLENGES IN GEOLOGY, ROCK MECHANICS, GEOTECHNICS AND GEOTECHNICAL APPLICATIONS	
Location: A8 Amphitheater, Building B	
14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Carsten DREBENSTEDT, Prof.dr. Maria LAZĂR	
1	Sergey Lutsenko . <i>OPEN PITS PRODUCTIVITY CONTROL ALONG WITH IRON ORE PRODUCTS DEMAND VARIATION</i>
2	Maria Lazăr , Izabela Maria Apostu (Nyari), Florin Faur, <i>SOLUTIONS TO INCREASE THE SUSTAINABILITY LEVEL OF MINING ACTIVITIES</i>
3	Izabela Maria Apostu (Nyari) , Maria Lazăr, Florin Faur, <i>IMPLEMENTATION OF SUSTAINABLE PRACTICES IN THE LIGNITE OPEN PIT ROSIA DE JIU</i>
4	Florian Buşe , Sorin Mangu, Florin-Gheorghe Buşe, <i>THE USE OF PETRI NETWORKS IN MODELING THE PRODUCER-CONSUMER RELATION FOR DETERMINING THE CAPACITY OF COAL DEPOSITS FROM LIGNITE OPEN PITS</i>
5	Csaba Lorinţ , Grigore Buia, <i>ROMANIAN MINING INDUSTRY, ASSUMPTIONS OF LAST DECADE AND FUTURE INSIGHTS</i>
6	Sorin-Mihai Radu, Ioel Vereş , Valeriu Pleşea, Ioan Cucu, <i>THE ASSIMILATION OF A NEW METAL BUILDING SUPPORT FOR THE EXECUTION OF UNDERGROUND EXCAVATIONS</i>
7	Dumitru-Filip Tivig , Ilie Rotunjanu, Adrian Florea, Costin-Sebastian Manu, <i>MINING DESIGN BASED ON A DIGITAL TERRAIN AND DEPOSIT BODY MODEL AT TISMANA OPEN PIT</i>
16¹⁵ Coffee break	
16³⁰ – 18¹⁵ Chairpersons: Prof.dr. Grigore BUIA, Conf.dr. Mihaela TODERAŞ	
8	Costin-Sebastian Manu , Sabina Plăvicheanu, Dumitru-Filip Tivig, Ioan Boroica, <i>THE ANALYSIS OF THREE-DIMENSIONAL BEHAVIOR OF OBJECTIVES IN MINING INDUSTRY USING THE GLOBAL TEST OF CONGRUENCE WITH TWO STAGES OF MEASUREMENT. LOCATING DEFORMATIONS USING STATISTICAL TESTS</i>
9	Nicolae Dima, Larisa Filip , Marius Cucăilă, <i>THE WEIGHTED DISTRIBUTION AND EVALUATION OF THE ACCURACY ROUTES AND NETWORKS TOPOGRAPHIC MINING SUPPORT</i>
10	Ioel Vereş , Larisa Filip, Nelu Ştefan, <i>THE ANALYSIS OF PRECISION IN ANGULAR INTERSECTIONS AND RESECTIONS</i>
11	Ioan Boroica , Costin-Sebastian Manu, Nicolae Dima, <i>ASPECTS OF INTRODUCING THE CADASTER INFORMATION SYSTEM OF CULTURAL HERITAGE SITES WITHIN THE HISTORICAL MARAMURES</i>

12	Mihaela Toderas , Ciprian Danciu, <i>ANALYSIS POSSIBILITIES OF ROCKS BREAKAGE BY MEANS OF PROPORTIONAL HAZARD REGRESSION</i>
13	Carsten Drebenstedt , <i>HOLISTIC APPROACH FOR RESPONSIBLE MINING – RESEARCH CONCEPT AND IMPLEMENTATION</i>
4. ACHIEVEMENTS IN ELECTRICAL ENGINEERING AND ENERGETICS	
Location: L8 Laboratory, Building B	
14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Dariusz RAJCHEL, Conf.dr. Marius MARCU	
16³⁰ – 18¹⁵ Chairpersons: Conf.dr. Ilie UȚU, Conf.dr. Titu NICULESCU	
16¹⁵ Coffee break	
1	Dragoș Păsculescu , Ilie Uțu, <i>INCREASING THE QUALITY OF PROTECTIONS FOR HIGH-VOLTAGE POWER LINES</i>
2	Leonard Lupu , Mihaela Părăian, Florin Adrian Păun, Adrian Jurca, Niculina Vătavu, Dan Gabor, <i>IMPLEMENTATION OF NEW TOOLS TO CALCULATE DISPERSED VOLUME OF COMBUSTIBLE GASES TO ACHIEVEMENT CLASSIFICATION OF HAZARDOUS AREAS</i>
3	Darius Rajchel , <i>RENEWABLE ENERGY AS A CHANCE TO GET OUT OF ENERGY POVERTY ON THE EXAMPLE OF POLAND AND ROMANIA</i>
4	Lucian Moldovan , Sorin Burian, Mihai Magyari, Marius Darie, Dragoș Fotău, Marcel Rad, <i>CONSIDERATIONS REGARDING THE RESISTANCE TO CHEMICAL AGENTS FOR GROUP I ELECTRICAL EQUIPMENT DESIGNED FOR USE IN EXPLOSIVE ATMOSPHERES</i>
5	Ilie Uțu , Dragoș Păsculescu, <i>POWER QUALITY STUDY IN ORDER TO COMPLY WITH EUROPEAN NORMS</i>
6	Niculina Vătavu , Mihaela Părăian, Florin Adrian Păun, Adrian Jurca, Dan Gabor, Leonard Lupu, <i>CONSIDERATIONS REGARDING THE MECHANICAL STRENGTH TO TORSION AND SIMULTANEOUS BENDING FOR THE MINING ELECTRICAL CABLES</i>
7	Marius Marcu , Florin Popescu, Răzvan Slusariuc, Titu Niculescu, <i>OPTIMIZING THE ORIENTATION OF PHOTOVOLTAIC PANEL TO ACHIEVE HIGHER ENERGY CONVERSION</i>
8	Tiberiu Csaszar, Sorin Burian, Marius Darie , Cosmin Colda, Adriana Andriș, <i>EVALUATION OF PRIMARY AND SECONDARY GALVANIC CELLS FOR ELECTRICAL EQUIPMENT INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES</i>
9	Sorin-Mihai Radu, Nicolae Iliăș, Elena-Roxana Tudoroiu , Wilhelm Kecs, Maria Dobrițoiu, Nicolae Tudoroiu, <i>INVESTIGATIONS ON REAL-TIME IMPLEMENTATION OF A PARTICLE FILTER TO ESTIMATE THE STATE-OF-CHARGE OF NI-MH BATTERIES IN HYBRID ELECTRIC VEHICLES</i>
5. DEVELOPMENT AND INNOVATION IN SYSTEM CONTROL AND COMPUTER ENGINEERING	
7. APPLIED MATHEMATICS, INFORMATICS AND PHYSICS	
Location: A3 Amphitheater, Building B	
14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Gheorghe MANOLEA, Prof.dr. Monica LEBA	
1	Nicolae Pătrășcoiu , Camelia Barbu, Cecilia Roșulescu, <i>INCREASE THE QUALITY OF MEASUREMENTS USING VIRTUAL INSTRUMENTATION BUILT WITH OPEN-SOURCE ELECTRONIC PLATFORM</i>
2	Alexander Burya, Olga Naberezhnaya, Sergey Sapeshko, Predrag Dašić , <i>DEVELOPMENT AND RESEARCH OF HYBRID POLYMER COMPOSITE MATERIALS BASED ON PHENYLONE</i>
3	Alexandra Lorincz , <i>ANALYSIS OF OBD2 COMMUNICATION PROTOCOLS</i>
4	Predrag Dašić , Jovan Dašić, Bojan Crvenković, <i>SOME EXAMPLES OF VIDEO SURVEILLANCE AS A SERVICE APPLICATIONS</i>
5	Cosmin Rus , Nicolae Pătrășcoiu, <i>ARDUINO WEBSERVER USED FOR ELECTRICAL ENERGY MONITORING</i>
6	Marius Nicolae Risteiu , Oliviu Mihnea Gamulescu, <i>ANALYSIS OF A SMART HOUSE ELEMENTS</i>
16¹⁵ Coffee break	
16³⁰ – 18¹⁵ Chairpersons: Prof.dr. Predrag DASIC, Conf.dr. Nicolae PĂTRĂȘCOIU	
7	Cosmin Rus , Nicolae Pătrășcoiu, <i>DRONES BETWEEN BIG DATA AND BIG BROTHER</i>

8	Ionuț-Alin Popa, Emil Pop, <i>PRESENTATION OF THE CURRENT STATE OF THE USE OF SENSOR NETWORKS AND HOW THEY PROCESS INFORMATION SUPPLIED IN SPECIAL AREAS</i>
9	Stelian Valentin Casavela , Antonio Casavela, Cristofor Casavela, <i>ADAPTIVE FUZZY REFERENCE MODEL CONTROL FOR INVERTED PENDULUM</i>
10	Milan Radosavljević , Maja Anđelković, <i>APPLICATION OF E-INDEX PLATFORM IN CASE OF FPSP FACULTY DISTANCE LEARNING SYSTEM</i>
11	Gheorghe Manolea , Alexandru Novac, Florin Ravigan, Laurențiu Alboteanu, Constantin Șulea-Iorgulescu, <i>SPECIALIZED DEVICE AND INFORMATIC SYSTEM FOR STREET COMMUNICATIONS</i>
12	Ancu Dincă , <i>SALTUL CUANTIC CALITATIV DE LA MATERIE LA DOMENIILE SUBTILE. MODULATORII BIO-FITO-DINAMICI DE TIP A.D. INTEGRAȚI ÎN MEDICINA HOLISTICĂ</i>
13	Marius Cornel Șuvar , Emilian Ghicioi , Nicolae Ioan Vlasin , Vlad Mihai Păsculescu , Victor Arad , Daniel Florea , <i>CONSIDERATIONS REGARDING FACTORS INFLUENCING THE PARALLELIZATION EFFICIENCY IN NUMERICAL SIMULATION OF BUILDING FIRES</i>

6. INDUSTRIAL AND MECHANICAL ENGINEERING AND TRANSPORTATION

Location: L12 Laboratory, Building B

14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Jozsef MOLNAR, Prof.dr. Iosif KOVACS

1	Alin Marian Cazac , Doru Costin Darabont, Constantin Baciu, Mihai Adrian Bernevig-Sava, Costică Bejinariu, <i>DETERMINATION OF FRICTION COEFFICIENT BETWEEN ALUMINUM SEMI-FINISHED AND PLASTIC DEFORMATION TOOLS</i>
2	Bogdan-Zeno Cozma , Iosif Dumitrescu, <i>EQUIPMENT DESIGNING FOR THE CAROL SHAFT REHABILITATION FROM SLĂNIC PRAHOVA SALINA</i>
3	Gabriel Dimirache , Ioan Cristian Rus, Stela Dinescu, <i>THE SYNTHESIS FOR SIX BARS MECHANISM OF GUIDING ROOF SUPPORTS FOR THE COAL MINING</i>
4	Dănuț Grecea , Marin Silviu Nan, Cătălin Plotogea, Gabriel Tutuianu, <i>RESEARCH ON USING IMAGES TO MONITORING CONVEYOR BELT</i>
5	Răzvan-Bogdan Itu , Vilhelm Itu, <i>ANALYSIS OF FLAT CABLE CONNECTING DEVICES FOR WINDING INSTALLATION VESSELS</i>
6	Iosif Kovacs , Andrei Andras, Marin Silviu Nan, <i>OPTIMIZATION OF GEOMETRIC AND STRENGTH PARAMETERS OF TEETH FOR BUCKET WHEEL EXCAVATOR IN VIEW TO INCREASING THE CUTTING EFFICIENCY</i>
7	Gabor Ladanyi , <i>NOISE EMISSION OF CONVEYOR IDLER ROLLERS</i>
8	Leon Makharadze, Omar Lanchava , Sorin Mihai Radu, Roland Iosif Moraru, <i>THE MAIN ASPECTS OF THE DURABILITY INCREASE OF HYDRO-TRANSPORTATION PIPELINE SYSTEMS PROVIDING EXPLOITATION RELIABILITY AND EFFICIENCY</i>
9	József Molnár , Richárd Tompa, <i>SOME QUESTIONS OF MINE SAFETY OF SMALL MINES IN HUNGARY</i>
10	Tabita Mariana Nan , Sorin Mihai Radu, Sorina Stănilă, <i>MINIMISING THE ACTUATING POWER OF MULTI-ROPE HOISTING MACHINERY</i>
11	Alexandru Marian Pulbere , <i>ANALYSIS OF THE POSSIBILITIES OF SLIDING CONVEYOR BELTS USED IN MINING, THE DRUMS DRIVE AS ITS SOURCE OF IGNITION FIRE</i>
12	Alexandru Marian Pulbere , <i>CURRENT STATUS ON THE MANUFACTURE OF CONVEYOR BELTS AND THEIR RESISTANCE TO FIRE</i>
13	Andrei Rada , Carmen Florea , <i>RESEARCH REGARDING THE RELIABILITY OF SUBASSEMBLIES AND MECHANICAL ENERGY LOSSES OF THE CENTRIFUGAL PUMPS</i>
14	Ioan Cristian Rus , Gabriel Dimirache, Stela Dinescu, <i>TESTS ON INERTISATION OF OIL SLUDGE RESULTED FROM OIL EXTRACTION ACTIVITIES</i>

16¹⁵ Coffee break

16³⁰ – 18¹⁵ Chairpersons: Prof.dr. Zoltan VIRAG, Prof.dr. Iosif ANDRAS

15	Andreea Cristina Tătaru , Dorin Tătaru, Aurora Stanci, <i>STUDY OF VIBRATION REGIME TO CONTROL NOISE PRODUCED BY BELT CONVEYORS</i>
16	Daniel Tihanov-Tănăsache , Vlad Alexandru Florea, <i>RESEARCH CONCERNING THE IMPROVEMENT OF OPERATION TIMES OF SOME SUBASSEMBLIES OF THE CRUSHERS</i>

17	Ovidiu-Bogdan Tomuş , Iosif Andras, Florin Dumitru Popescu, <i>COMPARATIVE STUDY REGARDING THE BREAK-OUT ANGLE AND SPECIFIC ENERGY CONSUMPTION AT OVERBURDEN ROCK AND LIGNITE CUTTING FROM OLTENIA COALFIELD</i>
18	Gheorghe-Bogdan Urdea , Dumitru Jula, <i>MODELING AND CHECKING THE CABLE TENSION BALANCE DEVICES</i>
19	Sorin Vătavu , <i>STRUCTURAL AND FUNCTIONAL MARKERS AND CALCULATION PARTICULARITIES FOR THE PUMPING SYSTEMS COMPRISED BY THE HYDRAULIC ASSEMBLIES SUPPLYING THE ROOF SUPPORTS USED IN JIU-VALLEY MINES</i>
20	Zoltán Virág , Károly Jármái, <i>EFFECTS OF MATERIAL QUALITY AND SPAN LENGTH ON THE OPTIMUM DESIGN OF NON-STANDARD SIZED ABOVE-GROUND PIPELINES</i>
21	Alexander Burya, Olga Kuznetsova, Vitaliy Chernov, Predrag Dasic , <i>STRENGTH PROPERTIES OF FULLERENE-CONTAINING COMPOSITE MATERIALS BASED ON PHENYLONE</i>
22	Constantin Bogdan , Marin Silviu Nan, Dănuţ Grecea, Aurelian Horia Nicola, <i>MICROCONTROLLER SYSTEM FOR MONITORING A WIND GENERATOR</i>
23	Constantin Bogdan , Marin Silviu Nan, Dănuţ Grecea, Sorina Stănilă, <i>THE POTENTIAL OF WIND IN THE AREA</i>
24	Marin Silviu Nan, Dănuţ Grecea, Cătălin Plotogea , <i>OPTIMIZING ENERGY CHARACTERISTICS</i>
25	Marin Silviu Nan , Constantin Bogdan, Nicoleta Raicea Mamară, Marius Răzvan Popescu, <i>OPTIMAL CONFIGURATIONS FOR INDUSTRIAL ROBOT</i>
26	Marin Silviu Nan, Constantin Bogdan, Andreea Ungur , Dănuţ Grecea, <i>OPTIMAL TENSIONING EFFORT OF BELT</i>
27	Marin Silviu Nan, Gabriel Dimirache, Constantin Bogdan , Dorina Popescu, <i>DETERMINING THE CENTER OF GRAVITY</i>
28	Marin Silviu Nan, Constantin Bogdan, Ioan Cucu , <i>DIFFERENTIATION OF FUNCTIONS OF SEVERAL VARIABLES</i>

8. IMPROVEMENTS IN BUSINESS, ECONOMICS AND PUBLIC ADMINISTRATION

Location: Faculty of Science Council Hall, Building A

14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Janusz WIELKI, Conf.dr. Codruța DURA

1	Janusz Wielki , <i>THE ROLE OF INTERNET OF THINGS AS A KEY TECHNOLOGY ENABLING THE FOURTH INDUSTRIAL REVOLUTION</i>
2	Claudia Isac , Codruța Dura, <i>ENCLAVE ECONOMY – AN IRREVERSIBLE ECONOMIC PHENOMENON FOR ROMANIA</i>
3	Maria Ciurea , Sorina Ileana Rakoş, <i>CONSIDERATIONS ABOUT THE NATURE OF THE EXPENDITURE COST COMPONENTS OF HUMAN CAPITAL FORMATION</i>
4	Maria Ciurea , Mariana Man, <i>THE NEED TO USE BENCHMARKING IN PERFORMANCE ANALYSIS OF HUMAN RESOURCES IN THE PUBLIC SECTOR</i>
5	Valentina Fetiniuc , Ivan Luchian, <i>BANKING CRISES: THEORETICAL CONCEPTS AND DETERMINANT FACTORS</i>
6	Ilie Răscolean , Sorina Ileana Rakoş, <i>COMPARATIVE STUDY ON THE ACCOUNTING OF CLIENT CREDITS IN ROMANIA AND THE REPUBLIC OF MOLDOVA</i>
7	Elzbieta Karas , <i>TALENT MANAGEMENT IN ORGANIZATIONS</i>
8	Dorina Niță , <i>LABOUR MARKET ANALYSIS IN HUNEDOARA COUNTY IN TERMS OF EMPLOYMENT</i>
9	Alina Nițescu , Oana Dobre-Baron, <i>THEORETICAL DELIMITATIONS REGARDING THE MANAGEMENT OF START – UP BUSINESS</i>
10	Oana Dobre-Baron , Alina Nițescu, <i>CORPORATE SOCIAL RESPONSIBILITY WITHIN THE ROMANIAN BEER INDUSTRY</i>
11	Anca Jarmila Guță , <i>THE ANALYSIS OF STRATEGIC ALTERNATIVES USING BCG MATRIX IN A COMPANY</i>
12	Bogdan Răvaş , <i>AN INTRODUCTION INTO THE PREVENTIVE FINANCIAL CONTROL EXERCISED IN A PUBLIC ENTITY</i>

16¹⁵ Coffee break

16³⁰ – 18¹⁵ Chairpersons: Conf.dr. Imola DRIGĂ, Conf.dr. Mirela MONEA

13	Oana Răvaş , <i>LABOUR LAW IN THE EUROPEAN SPACE FOR ROMANIAN CITIZENS, LIMITATIONS AND INEQUALITIES</i>
14	Adelin Ungureanu , <i>INCOMPATIBILITIES: SIGNIFICANCE, NORMATIVE SUPPORT, CRITICAL VIEWS</i>
15	Boban Dašić , Zeljko Dević, Jelena Saranović, <i>TRENDS VALUES OF HDI INDEX TRANSITIONAL COUNTRIES OF THE WESTERN BALKANS</i>
16	Zoran Katanić, Slobodan Čerović , <i>TREND OF ECONOMIC DEVELOPMENT OF KOSOVSKA MITROVICA</i>
17	Rareş Munteanu , Monica Boanta, <i>NATIONAL LEGISLATION ON PUBLIC PROCUREMENT REFORM</i>
18	Mădălina Maticiuc , Alexandru Constanin Petrache, <i>INDUSTRIAL PARKS AND BUSINESS INCUBATORS AS CLUSTERING INCIPIENT FORMS</i>
19	Olga Bucoveţchi , Radu Stanciu, Roland Pulfer, <i>IMPROVEMENTS IN BUSINESS TOWARDS SYSTEM OF SYSTEMS ENGINEERING APPROACH</i>
20	Mirela Monea , <i>INDICATORS CONCERNING FINANCIAL PERFORMANCES</i>
21	Alin Monea , <i>SOME ASPECTS CONCERNING COST AND EVALUATION OF MINERAL RESOURCES</i>
22	Dejan Dašić , Goran Jeličić, Damir Buzurović, <i>ANALYSIS OF ENTREPRENEURS AND SMALL AND MEDIUM ENTERPRISES IN SERBIA</i>
23	Miloš Lutovac, Milena Lutovac , <i>ANALYSIS OF WHOLESALE AND RETAIL TRADE IN SERBIA</i>

9. QUALITY CONCERNS FOR MANAGEMENT AND MARKETING

Location: A4 Amphitheater, Building B

14³⁰ – 16¹⁵ Chairpersons: Prof.dr. Eduard EDELHAUSER, Prof.dr. Sabina IRIMIE

16³⁰ – 18¹⁵ Chairpersons: Prof.dr. Janusz GRABARA, Prof.dr. Andreea IONICĂ

16¹⁵ Coffee break

1	Jolanta Staszewska , <i>CLUSTERING CONCEPTION IN POLAND</i>
2	Diana Csiminga , Mirela Iloiu, Sorin Mangu, <i>APPROACHES ON THE RELATIONSHIP BETWEEN COMPETITIVE STRATEGIES AND ORGANIZATIONAL PERFORMANCE THROUGH THE TOTAL QUALITY MANAGEMENT (TQM)</i>
3	Mirela Iloiu , Diana Csiminga, Sorin Mangu, <i>PARTICULARITIES IN SERVICES QUALITY APPROACH</i>
4	Andreea Ionică , Monica Leba, <i>INNOVATION AND QUALITY - PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT. CHECK4GREEN STARTUP CASE</i>
5	Janusz Grabara , <i>THE ANOTHER POINT OF VIEW ON SUSTAINABLE MANAGEMENT</i>
6	Eduard Edelhauser , Roxana Pleşa, Lucian Lupu, <i>THE QUALITY OF THE UNIVERSITY MANAGEMENT, A SOLUTION TO CONNECT THE MAIN ACTORS INVOLVED IN THE EDUCATIONAL PROCESS</i>
7	Mihaela Ghicajanu , <i>INTERNATIONAL EXPERIENCE IN IMPLEMENTING ENTERPRISE PROCESS REDESIGN</i>
8	Sabina Irimie , Elena Filip, Ileana Bodea, Maria Mihaiasa, Nicoleta Pleşan, <i>ASPECTS OF ANALYZING STRESS AT A MANAGERIAL LEVEL IN THE ENERGETIC FIELD (PART I)</i>
9	Sabina Irimie, Elena Filip , Ileana Bodea, Maria Mihaiasa, Nicoleta Pleşan, <i>ASPECTS OF ANALYZING STRESS AT A MANAGERIAL LEVEL IN THE ENERGETIC FIELD (PART II)</i>
10	Natanya Meyer, Daniel Meyer, Sebastian Kot , <i>THE DEVELOPMENT OF A PROCESS TOOL FOR IMPROVED RISK MANAGEMENT IN LOCAL GOVERNMENT</i>

10. SOCIAL SCIENCES AND HUMANITIES

Location: A10 Amphitheater, Building B

14³⁰ – 18¹⁵ Chairpersons: Conf.dr. Ion HIRGHIDUŞ, Lect.dr. Mihaela SCHMIDT

16¹⁵ Coffee break

1	Cristian Ilioni , <i>THE IMPROVEMENT OF THE PHYSICAL SHAPE OF THE STUDENTS AT THE UNIVERSITY OF PETROŞANI BY IMPLEMENTING A PHYSICAL TRAINING PROGRAM OUTSIDE CLASSES</i>
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2	Valentin Fulger , Melania Nan, <i>EMIGRANT'S CONDITION FROM JIU VALLEY AT THE DESTINATION PLACE</i>
3	Mircea Baron , Oana Dobre-Baron, <i>COMMEMORATIVE MONUMENTS RAISED IN JIU VALLEY DURING THE INTERWAR PERIOD, FOR HONORING THOSE WHO FOUGHT IN WORLD WAR ONE</i>
4	Ion Hirghiduș , <i>ANTHROPOLOGICAL MEANINGS OF CONTEMPORARY NOMADISM</i>
5	Valentin Fulger , Fulop Bela, <i>BOOK CONSUMPTION IN PETROȘANI CITY</i>
6	Mihaela-Camelia Schmidt , Gabriel Bulf, <i>SOCIAL WELFARE SERVICES PROVIDED TO THE RESIDENTS OF THE "GRANDPARENTS OF THE JIU VALLEY" CARE CENTER FOR THE ELDERLY IN PETROȘANI</i>
7	Anna Rajchel , <i>VOLUNTARY SERVICE - AN INTRODUCTION TO PROFESSIONAL CAREER</i>
8	Valentin Răilean , <i>LEARNING AND TEACHING CHALLENGES IN THE 21ST CENTURY</i>

Sâmbătă, 15 Octombrie 2016

MASĂ ROTUNDĂ

“PERSPECTIVELE UTILIZĂRII CĂRBUNELUI ÎN ECONOMIE”

ORA 10, în sala de conferințe a GEROM International, strada 1 Decembrie 1918, nr. 1, PETROȘANI.

PROGRAM

1. 9³⁰ ÷ 10⁰⁰. *Primirea participanților*
2. 10⁰⁰ ÷ 13⁰⁰. *Cuvânt de deschidere din partea organizatorilor: Prof. dr. ing. Nicolae*

Iliaș

3. *Prezentarea lucrărilor:*

Sesiunea I

4. 10⁰⁰ ÷ 11⁰⁰. *Moderatori: Prof. dr. ing. Sorin Mihai Radu, Prof. dr. ing. Iosif Andraș*
SI.1. Prof. dr. ing. Sorin Mihai Radu, Prof. dr. ing. Nicolae Iliș, Prof. dr. ing. Iosif Andraș: „Rolul cărbunelui în mixul energetic. Scenarii”
SI.2. Prof. dr. ing. Victor Vaida: „Orientări strategice pe termen mediu și lung, pentru energetica națională și hunedoreană”
SI.3. Ing. Cosmin Chiuzan: „Perspectiva Complexului Energetic Hunedoara, după aplicarea programului de restructurare”

5. 11⁰⁰ ÷ 11³⁰. *Coffee break*

Sesiunea II

6. 11³⁰ ÷ 12³⁰. *Moderatori: Prof. dr. Florin Stănică, Ing. Iulian Offenber*

SII.1. Dr. Domenico Terenzi:

- *„Obținerea îngrășămintelor de tip humo-folati din lignit”*
- *„Folosirea îngrășămintelor de tip humo-folati în agricultura”*

SII.2. Dr. Gian Paolo Mistruzzi:

- *„KDV Technology – Nature as example”*

7. 12³⁰ ÷ 13⁰⁰. *Concluzii, discuții, interviuri*

8. 13⁰⁰ ÷ 16⁰⁰. *Prânz festiv*

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