



INTERNATIONAL MULTIDISCIPLINARY SYMPOSIUM
"UNIVERSITARIA SIMPRO 2021"

- 9th EDITION -

"QUALITY AND INNOVATION IN EDUCATION, RESEARCH AND INDUSTRY
- THE SUCCESS TRIANGLE FOR A SUSTAINABLE ECONOMIC, SOCIAL
AND ENVIRONMENTAL DEVELOPMENT"

University of Petroșani
May 27 - 28, 2021

ONLINE edition

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

"UNIVERSITARIA SIMPRO 2021"

SYMPOSIUM PROGRAM

SUB EGIDA / UNDER THE AUSPICES OF:

**MINISTERUL EDUCAȚIEI / MINISTRY OF EDUCATION
ACADEMIA OAMENILOR DE ȘTIINȚĂ DIN ROMÂNIA / ACADEMY OF ROMANIAN SCIENTISTS
ACADEMIA DE ȘTIINȚE TEHNICE DIN ROMÂNIA / ACADEMY OF TECHNICAL SCIENCES OF ROMANIA
ASOCIAȚIA GENERALĂ A INGINERILOR DIN ROMÂNIA / GENERAL ASSOCIATION OF ENGINEERS IN ROMANIA**

ÎN PARTENERIAT CU / IN PARTNERSHIP WITH:

**Autoritatea Națională pentru Cercetare Științifică / National Authority for Scientific Research
Consiliul Județean Hunedoara / Hunedoara County Council
Inspecția Muncii / Labour Inspectorate
Asociația Absolvenților Universității din Petroșani, ALUMNI / ALUMNI Association of the University of Petroșani
Sindicatul CDPM / CDPM Union
Salrom – Societatea Națională a Sării / Salrom – National Salt Society
Total Business Land**

PARTENERI MEDIA / MEDIA PARTNERS:

**MATEC Web of Conferences – open access proceedings journal by EDP Sciences
Sustainability - an open access journal by MDPI
Education Sciences - an open access journal by MDPI**

**27 – 28 MAY, 2021
PETROȘANI**

UNIVERSITARIA SIMPRO 2021

GENERAL PROGRAM

27 May 2021

- 09:30 – 10:00¹ Participants connecting to the Zoom conference room/Conectarea participanților la sala de conferință Zoom
- 10:00 – 10:20 Opening ceremony/Festivitatea de deschidere
- 10:25 – 12:30 Plenary lectures/Lucrări în plen
- 10:25 – 10:50 **Carsten DREBENSTEDT**, Bergakademie Technische Universität Freiberg, Germany - How to keep raw material awareness in the society- approaches and realization.
- 10:50 – 11:15 **Krzysztof KOTWICA**, AGH University of Science and Technology, Poland - Disk cutters as the alternative for cutting tools in hard rock mining.
- 11:15 – 11:40- **Artur GAMAN**, NIRD INSEMEX Petroșani, Romania - Research on designing and making of a mobile training facility for intervention and rescue personnel in toxic / flammable / explosive environments
- 11:40 – 12:05 **Jean-Jacques WAGNER**, IUT de Belfort-Montbéliard, France - University and Soft Power, a new mission.
- 12:05 – 12:30 **Mihalis GALETAKIS**, Technical University of Crete, Chania, Greece - Applications of fuzzy inference systems in mineral industry - an overview.
- 12:30 – 13:45 Lunch break/Pauză de masă
- 13:45 – 14:00 Connecting to the Zoom conference rooms (by topic)/Conectarea participanților la sălile de conferință Zoom (pe secțiuni)
- 14:00 – 18:30 Parallel sessions/Prezentarea lucrărilor pe secțiuni

28 May 2021

- 15:00 Opening of workshops/Deschiderea workshop-urilor
- Dan Codruț PETRILEAN** - EURECA-PRO – Sustainable production and consumption. Today and tomorrow
- Adam BAJCAR** - RAFF – Risk assessment of final pits during flooding
- Alenka MAUKA** - RIS – CuRE – Zero waste recovery of cooper tailings in the ESEE region
- Felicia ANDRIONI** - CoVid -19 Pandemic. Causes, implications and interdisciplinary resolute perspectives

¹ Bucharest Time

PARALLEL SESSIONS

THURSDAY 27.05.2021, 14:00 – 18:30

1. ADVANCES IN SAFETY SCIENCE AND OCCUPATIONAL RISK MANAGEMENT		
Access link:		13:45 – 14:00
Chairperson: Sci. res. II dr. Vlad Mihai PĂSCULESCU		
Secretary of session: Lect. dr. Monica Crinela BURDEA		
1	Gabriel-Dragos Vasilescu, Florea Dinu, Attila Kovacs, Robert Laszlo and Iuliana-Claudia Miron - SAFETY ASSESSMENT OF INDUSTRIAL LOCATIONS UNDER THE EFFECTS GENERATED BY CONTROLLED EXPLOSIONS	14:00 – 14:10
2	Ilie-Ciprian Jitea, Daniela Carmen Rus, Cristian Rădeanu and Dragoş Gabriel Vasilescu - EVALUATION OF THE SAFETY PARAMETERS FOR A PERMITTED EXPLOSIVE TYPE EMULSION	14:10 – 14:20
3	Stefan Ilici, Edward Gheorghiosu, Daniela Rus and Ciprian Jitea - RESEARCH IN THE FIELD OF EVALUATION OF ANFO EXPLOSIVE PREPARATION INSTALLATIONS - TESTS AND RESULTS	14:20 – 14:30
4	Vlad Mihai Pasculescu, Marius Cornel Suvar, Ligia Ioana Tuhut and Laurentiu Munteanu - NUMERICAL MODELLING OF HYDROGEN RELEASE AND DISPERSION	14:30 – 14:40
5	George Artur Gaman, Daniel Pupazan, Cristian Nicolescu, Cosmin Ilie and Izabella Kovacs - RESEARCH ON DESIGNING AND MAKING OF A MOBILE TRAINING FACILITY FOR INTERVENTION AND RESCUE PERSONNEL IN TOXIC / FLAMMABLE / EXPLOSIVE ENVIRONMENTS	14:40 – 14:50
6	Lorand Toth, George Artur Găman, Daniel Pupăzan, Cristian Nicolescu and Cosmin Ilie - FIRST AID ELEMENTS USED IN POTENTIALLY TOXIC / EXPLOSIVE ENVIRONMENTS IN THE CONTEXT OF THE COVID 19 PANDEMIC	14:50 – 15:00
7	Izabella Kovacs, Andrei Lucian Gireadă, Alin Irimia and Laurențiu Munteanu - RESEARCH ON PSYCHOSOCIAL RISKS ASSOCIATED TO INTERVENTION AND RESCUE ACTIVITY IN TOXIC / FLAMMABLE / EXPLOSIVE ENVIRONMENTS	15:00 – 15:10
8	Angela Nicoleta Călămar, Sorin Simion, Marius Kovacs and Alexandru Florin Simion - MEASUREMENT OF THE OCCUPATIONAL RISK LEVEL SPECIFIC TO WORKPLACES	15:10 – 15:20
9	Mihai Popescu-Stelea, Roland Iosif Moraru, Gabriel Bujor Babut and Lorian Zamfir Farkas - ASSESSMENT TOOLS ANALYSIS OF WORK-RELATED MUSCULOSKELETAL DISORDERS: STRENGTHS AND LIMITATIONS	15:20 – 15:30
10	Dan Gabor, Niculina Vatavu, Mihai Catalin Popa, Florin Adrian Păun and Adrian Marius Jurca - QUALITY ASSURANCE OF TEST RESULTS FOR THE DETERMINATION OF INGRESS PROTECTION CODE FOR EX EQUIPMENT ENCLOSURES	15:30 – 15:40
BREAK		
Chairperson: Lect. dr. Mihai POPESCU-STELEA		
Secretary of session: Lect. dr. Monica Crinela BURDEA		
11	Tiberiu Csaszar, Sorin Burian, Cosmin Ioan Colda, Marius Darie and Emilian Ghicioi - PRACTICAL ASPECTS REGARDING THE EVALUATION OF EQUIPMENT AND INSTALLATIONS OPERATING IN POTENTIALLY EXPLOSIVE ATMOSPHERES	16:00 – 16:10
12	Andrada Denisa Babut, Marius Simion Morar, Cristian Raul Cioara and Cristian Tomescu - WORKPLACE RISK MANAGEMENT IN THE CONTEXT OF THE COVID-19 PANDEMIC	16:10 – 16:20
13	Marius Cornel Suvar, Vlad Mihai Pasculescu, Alin Irimia and Dragoş Pasculescu - ASPECTS REGARDING NUMERICAL MODELS FOR SAFE EVACUATION OF PEOPLE, IN THE CURRENT PANDEMIC CONTEXT	16:20 – 16:30
14	Gheorghe Daniel Florea, Nicolae-Ioan Vlasin, Adrian Bogdan Şimon-Marinică, Florin Manea and Zoltan Vass - COMPUTATIONAL SIMULATION OF HEAT CONDUCTION ON DIFFERENT SURFACES	16:30 – 16:40
15	Adrian Bogdan Şimon-Marinică, Nicolae-Ioan Vlasin, Gheorghe-Daniel Florea and Florin Manea - FINITE ELEMENT METHOD TO SOLVE ENGINEERING PROBLEMS USING ANSYS	16:40 – 16:50
16	Maria Elena Boatca, Diana Robescu, Romulus Corlan and Nicoleta Mirea - EDUCATION IN TIMES OF COVID-19: ARE STUDENTS LEARNING IN ERGONOMIC CONDITIONS?	16:50 – 17:00
17	Savulescu Manuel Cristian, Tataru Andreea Cristina, Stanci Aurora and Tataru Dorin - RISK FACTORS THAT MAY OCCUR IN THE PROCESS OF CLOSING AND GREENING THE LUPENI MINING EXPLOITATION	17:00 – 17:10
18	Delia Mihaila, Raluca Iordache and Viorica Petreanu - DORSOPATHY IN URBAN PUBLIC TRANSPORT DRIVERS IN RELATION TO OCCUPATIONAL RISKS AND WORKLOAD	17:10 – 17:20
19	Gabriela Caldarescu, George Daniel Tanasievici, Costica Bejinariu and Mihai Adrian Bernevig - THE INFLUENCE OF ECONOMIC FACTORS IN THE MANAGEMENT OF HEALTH AND SAFETY SPECIFIC TO SMES	17:20 – 17:30
20	Doru Costin Darabont, Alina Trifu, Daniel Onut Badea and Bogdan Țărnău - ANALYSIS OF THE FIELD OF SPECIFIC KNOWLEDGE OF OCCUPATIONAL RISKS RELATED TO HANDLING TOXIC SUBSTANCES	17:30 – 17:40
21	Q&A	17:40 -

2. CHALLENGES IN MINING ENGINEERING, PROCESSING, SURVEYING, AND CIVIL ENGINEERING

Access link: 13:45 – 14:00

Chairperson: Prof. dr. Mihaela TODERAȘ

Secretary of session: Lect. dr. Klaus FISSGUS

1	Bogdan Garaliu-Bușoi, Attila Kovacs, Edward Gheorghiosu, Cristian Rădeanu and Olga Miclea - THE IMPORTANCE OF SEISMIC PROTECTION OF STRATEGIC OBJECTIVES, IN THE AREA OF INFLUENCE OF USEFUL ROCK QUARRIES, IN WHICH BLASTING WORKS ARE CARRIED OUT	14:00 – 14:10
2	Robert Laszlo, Emilian Ghicioi, Cristian Rădeanu, Bogadan Garaliu-Bușoi and Ștefan Ilici - EXPERIMENTATION OF A NEW TYPE OF PERMISSIBLE EXPLOSIVE UNDER THE SPECIFIC CONDITIONS OF THE JIU VALLEY MINES	14:10 – 14:20
3	Dacian-Paul Marian and Ilie Onica - FINITE ELEMENT MODELING OF THE STABILITY OF ROOMS AND RESISTANCE STRUCTURES FROM THE CANTACUZINO MINE	14:20 – 14:30
4	Mihaela Toderas and Mykhailo Filatiev - SLOPES STABILITY ANALYSIS FROM ROSIA POIENI OPEN PIT MINE, ROMANIA	14:30 – 14:40
5	Ion Gherghe, Doru Cioclea, Florin Radoi, Adrian Matei and Razvan Dragoescu - NOTIONS REGARDING THE DESING OF SUCTION SYSTEMS FOR INDUSTRIAL VENTILATION	14:40 – 14:50
6	Cristian Raul Cioara, Marius Simion Morar, Andrada Denisa Babut and Ligia Ioana Tuhut - ASSESSMENT OF THE LEVEL OF IMPLEMENTATION OF METROLOGICAL TRACEABILITY REQUIREMENTS SPECIFIC TO MEASUREMENT EQUIPMENT IN THE LABORATORY FOR EXPLOSIVE MATERIALS AND PYROTECHNIC ARTICLES	14:50 – 15:00
7	Ábel Dániel Antonovits and József Molnár - 3D MODELLING OF COAL SEAMS FOR OPTIMIZATION OF EXTRACTION	15:00 – 15:10
8	Daniel Cosmin Vitan, Sorina Daniela Stănilă, Ionela Cristina Lăpăduș and Bogdan Brănișteanu - THEORETICAL AND EXPERIMENTAL RESEARCH ON THE POSSIBILITY OF SALINE WATER EVACUATION FROM THE SUMP OF UNIREA SHAFT IN SLANIC MINE	15:10 – 15:20
9	Dorel Gusat, Ioan Bud and Mircea Goia - ANALYSIS OF THE POSSIBILITIES OF GEOMETRY OF THE ROSIA POIENI MINING FIELD	15:20 – 15:30

BREAK

Chairperson: Assoc. prof. dr. Dacian-Paul MARIAN

Secretary of session: Lect. dr. Klaus FISSGUS

10	Lupu Diana-Andreea and Avram Lazar - IMPROVING THE PRODUCTIVITY OF GAS WELLS BY STIMULATING "TIGHT" FORMATIONS - PERSPECTIVES FOR CONTINUATION OF EXPLOITATION IN THE TRANSYLVANIA BASIN	15:50 – 16:00
11	Antonios Kalogeropoulos and Theodoros Michalakopoulos - NUMERICAL SIMULATION OF ROCK CUTTING TESTS USING YADE	16:00 – 16:10
12	Sorin Popescu and Ovidiu-Bogdan Tomuș - DETERMINATION OF GEOLOGICAL STRENGTH INDEX OF JOINTED ROCK MASS BASED ON IMAGE PROCESSING	16:10 – 16:20
13	Aikaterini Servou, Nikolaos Paraskevis, Christos Roumpos and Francis Pavloudakis - EVALUATION OF SURFACE MINING AREAS THROUGH GEOSPATIAL ANALYSIS. THE CASE OF PTOLEMAIS LIGNITE MINES	16:20 – 16:30
14	Mihaela Stanciucu and Alexandra Terteleac - SWELLING PROPERTIES OF CLAYS, A MAJOR RISK FACTOR FOR THE INFRASTRUCTURE PROJECTS	16:30 – 16:40
15	Ilioni Cristian - QUALITY OF THE EQUIPMENT USED IN THE MINING RESCUE ACTIVITY IN ROMANIA AND THE NATURE OF THEIR SPECIFIC REQUESTS	16:40 – 16:50
16	Lucian Octavian Dragomir, Roxana Claudia Herbei and Mihai Valentin Herbei - THE USE OF MODERN TECHNOLOGIES IN THE SURVEYING FIELD	16:50 – 17:00
17	Offenberg Iulian and Arens Victor - PHYSICAL-CHEMICAL GEOTECHNOLOGY - INSTRUMENT FOR THE SUPERIOR VALUATION OF MINERAL RESOURCES AND ENVIRONMENTAL PROTECTION	17:00 – 17:10
18	Filip Larisa and Simona Cucaila - PROCESSING OF MEASURES MEASURED IN UNDERGROUND POLYGONATIONS	17:10 – 17:20
19	Q&A	17:20 -

3. SUSTAINABLE ENVIRONMENTAL ENGINEERING AND PROTECTION		
Access link:		13:45 – 14:00
Chairperson: Sci. res. I dr. Angela CĂLĂMAR		
Secretary of session: Assist. prof. dr. Izabela Maria APOSTU		
1	Marin Laurentiu - THE USE OF POLYURETHANE FOAM WASTE RESULTING FROM THE TECHNOLOGICAL PROCESSES OF INSULATION OF REFRIGERATION ENCLOSURES IN OBTAINING CONSTRUCTION PANELS WITH SOUND-ABSORBING AND THERMALLY INSULATING PROPERTIES	14:00 – 14:10
2	Marius Emilian Kovacs, Angelica Nicoleta Călămar, Lorand Toth, Sorin Simion and Alexandru Simion - COMPARATIVE MEASUREMENTS BETWEEN THE RESULTS ACHIEVED WITH REFERENCE METHOD AND THE OPTICAL METHOD FOR DETERMINATION OF PM10 DUSTS IN AMBIENT AIR	14:10 – 14:20
3	Andrei Szollosi-Mota, Maria Prodan, Vasilica Irina Nalboc, Niculina Sonia Suvar and Nicolae Ianc - HEAVY METAL POLLUTION FROM DUST DEPOSITS IN URBAN AND INDUSTRIAL AREAS IN THE JIUL VALLEY	14:20 – 14:30
4	Sonia Suvar, Maria Prodan, Andrei Szollosi-Mota, Irina Nalboc and Aurelian Nicola - DETERMINATION OF THE CHEMICAL COMPOSITION OF THE RESIDUAL POWDER IN ORDER TO IDENTIFY THE SOURCE OF RELEASE	14:30 – 14:40
5	Maria Lazar, Faur Florin, Izabela-Maria Apostu and Constantin Rada - LONG-TERM STABILITY OF THE FINAL SLOPES OF THE MINING WASTE DUMPS FROM OLTENIA	14:40 – 14:50
6	Iulian Vladuca, Ramona-Manuela Stanciuc, Ana-Maria Obreja and Doru Cioclea - IDEAS FOR CO2 STORAGE FROM THE TURCENI POWER PLANT, IN CLOSED MINING AREAS IN THE JIU VALLEY, ROMANIA	14:50 – 15:00
7	Nicola Aurelian Horia, Daniel Cosmin Vitan, Cristian Aron, Daniel Matei and Ionela Grecea - STUDY OF PHOTOVOLTAIC SYSTEMS USING MODELLING AND SIMULATION	15:00 – 15:10
8	Adina Bud - ANALYSIS OF THE RISKS GENERATED BY THE TAILINGS PONDS NEAR THE CITY OF BORȘA	15:10 – 15:20
9	Constantin Rada, Maria Lazar, Florin Faur and Izabela-Maria Apostu - COMPARATIVE STUDY REGARDING THE CAUSES OF LAND INSTABILITY PHENOMENA IN THE AREA OF THE GETIC SUBCARPATHIANS	15:20 – 15:30
10	Alexandra Stanimirescu Soica, Florin Flavius Soica, Angela Egri and Mirela Ancuta Radu - MONITORING THE NOISE LEVEL AROUND THE JIU VALLEY MINES USING BRUEL & KJAER NOISE DOSE METER TYPE 4448	15:30 – 15:40
11	Bogdan Ioan Marc, Alexandra Stanimirescu Soica and Sorin Mihai Radu - THE QUALITY OF THE ENVIRONMENT IN THE ROSIA OF JIU QUARRY AS A RESULT OF THE USE OF CATERPILLAR 323D L AND 323D LN EXCAVATORS	15:40 – 15:50
BREAK		
Chairperson: Prof. dr. Maria LAZĂR		
Secretary of session: Assist. prof. dr. Izabela Maria APOSTU		
12	Emilia-Cornelia Dunca, Tiberiu Rusu and Dorin Iancu - IDENTIFICATION OF POLLUTION SOURCES IN CLOSED MINING SITES WITH AN IMPACT ON THE QUALITY OF SURFACE WATER IN THE BRAD AREA	16:00 – 16:10
13	Gelu Madear and Camelia Madear - ENVIRONMENTAL MODELLING - A MODERN TOOL TOWARDS SUSTAINABILITY	16:10 – 16:20
14	Tataru Andreea Cristina, Stanci Aurora and Tataru Dorin - MANAGEMENT OF AFFECTED AREAS BY THE POLLUTION OF THE SLAG AND ASH DEPOSITS OF GET MINTIA	16:20 – 16:30
15	Alexandru Balint - GEOLOGICAL AND HYDROGEOLOGICAL CHARACTERIZATION OF THE LANDFILL AREAS LOCATED AROUND BUCHAREST CITY IN THE CONTEXT OF ENVIRONMENTAL MANAGEMENT	16:30 – 16:40
16	Lucia-Ana Varga, Gheorghe Zaman and Emilia-Cornelia Dunca - CONSIDERATIONS REGARDING THE ADAPTATION OF CITIES TO THERMAL STRESS, EFFECT OF CLIMATE CHANGE	16:40 – 16:50
17	Iudit Bere Semeredi, Cristina Borca, Anca Draghici, Diana Florina Robescu and Dana Fatol - A PROPOSED SCENARIO TO INVESTIGATE CUSTOMERS' PERCEPTION ON SOCIAL RESPONSIBILITY IN THE CASE OF ROMANIA WATER SECTOR	16:50 – 17:00
18	Iudit Bere Semeredi, Cristina Borca, Anca Draghici, Larisa Ivascu and Dana Fatol - A LONGITUDINAL STUDY TO CHARACTERIZED CUSTOMERS' PERCEPTION ON SOCIAL RESPONSIBILITY	17:00 – 17:10
19	Nicolae Ilias, Omar Lanchava, Giorgi Nozadze and David Tsanova - STUDY OF PROPAGATION OF DAMAGING CAUSES IN SHORT ROAD TUNNELS OF DIFFERENT INCLINATION	17:10 – 17:20
20	Marwan Mousa, Ildiko Tulbure and Saleh Fawaer - ENVIRONMENTAL MONITORING ODDS BY CARBON NANOTUBES	17:20 – 17:30
21	Omar Lanchava, Nicolae Ilias, Marad Jangidze, Zaza Khokerashvili and Sorin Radu Mihai - FIRE DEVELOPMENT STUDY ON PHYSICAL MODELS OF TRANSPORT TUNNELS	17:30 – 17:40
22	Casen Panaitescu and Maria Stoicescu - IMPACT OF HYDROCARBONS TRANSPORT THROUGH PIPES ON PLACEMENT AREAS	17:40 – 17:50
23	Alexandru Balint - PHYSICAL, CHEMICAL AND TOXICOLOGICAL PROPERTIES OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) IN HUMAN EXPOSURE ASSESSMENTS TO CONTAMINATED SOIL AND GROUNDWATER	17:50 – 18:00
24	Q&A	18:00 -

4. INNOVATIONAL CHALLENGES IN ELECTRICAL ENGINEERING AND ENERGETIC TECHNOLOGY		
Access link:		13:45 – 14:00
Chairperson: Assoc. prof. dr. Marius MARCU		
Secretary of session: Lect. dr. Florin Gabriel POPESCU		
1	Dragos Fotau, Mihai Magyari, Lucian Moldovan and Diana Sălășan - ASPECTS REGARDING THE SPECIFIC TESTS APPLICABLE TO ELECTRIC MOTORS WITH TYPE OF PROTECTION INCREASED SAFETY „E”	14:00 – 14:10
2	Lucian Moldovan, Mihai Magyari, Marcel Daniel Rad, Clementina Sabina Moldovan and Sorin Zsido - CONSIDERATIONS REGARDING THE INSPECTION OF EQUIPMENT DESIGNED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES	14:10 – 14:20
3	Marcel Daniel Rad, Diana Sălășan and Sorin Zsido - CONSIDERATIONS REGARDING THE NEW REQUIREMENTS FOR THE EVALUATION OF ROTATING ELECTRIC MACHINES WITH INCREASED SAFETY PROTECTION TYPE "E"	14:20 – 14:30
4	Mihai Catalin Popa, Nan Marin Silviu, Mihaela Paraian, Adrian Marius Jurca and Florin Adrian Păun - ASPECTS OF LABORATORY TESTS FOR DETERMINING THE MINIMUM IGNITION ENERGY OF THE AIR / FUEL DUST MIXTURE	14:30 – 14:40
5	Danut Grecea, Gabriela Pupazan, Zoltan Vass, Cosmin Colda and Adriana Andris - ANALYSIS OF THE PURGE TIME VALUES FOR PRESSURIZED ENCLOSURE USING A PARAMETERIZED CFD MODEL	14:40 – 14:50
6	Mariana Dumitrescu - CONDUCTING POWER FLOW ANALYSIS AND SIMULATIONS FOR A DELIVERY ELECTRIC SYSTEM WITH IMPORTANT CONSUMERS	14:50 – 15:00
7	Adriana Andris, Marius Darie, Danut Grecea, Sorin Burian and Tiberiu Csaszar - SUMMARY OF REQUIREMENTS FOR THE USE OF CELLS AND BATTERIES IN POTENTIALLY EXPLOSIVE ATMOSPHERES	15:00 – 15:10
8	Sorina Anutoiu, Ion Dosa and Dan Codrut Petrilean - STEAM TURBINE EFFICIENCY ASSESSMENT FIRST STEP TOWARDS SUSTAINABLE ELECTRICITY PRODUCTION	15:10 – 15:20
9	Dragos Stefan Roibu, Sabin Ioan Irimie and Dan Codrut Petrilean - COMPARATIVE ANALYSIS OF PERFORMANCE INDICATORS FOR PHOTOVOLTAIC PANELS AND CHP GENERATORS	15:20 – 15:30
10	Stochitoiu Daniela, Utu Ilie and Pana Leon - THE NECESSITY OF STORAGE TECHNOLOGY DEVELOPMENT FOR UNPREDICTIBLE ENERGY SOURCES	15:30 – 15:40
11	Fita Nicolae Daniel, Pasculescu Dragos, Popescu Florin, Handra Alina and Grigorie Emilia - ENERGY SECURITY ASPECTS RELATED TO THE NATIONAL POWER GRID	15:40 – 15:50
12	Fita Nicolae Daniel and Grigorie Emilia - FACTORS OF ACHIEVING AND ENSURING ENERGY SECURITY IN THE CONTEXT OF NATIONAL AND EURO-ATLANTIC SECURITY	15:50 – 16:00
13	Mariana Dumitrescu - CONDUCTING SAFETY ANALYSIS AND SIMULATIONS FOR PROTECTION OF A DELIVERY ELECTRIC SYSTEM WITH ESSENTIAL POWER CONSUMERS	16:00 – 16:10
14	Q&A	16:10 -

5. DEVELOPMENTS IN SYSTEMS CONTROL, INFORMATION TECHNOLOGY AND CYBERSECURITY		
Access link:		13:45 – 14:00
Chairperson: Prof. dr. Monica LEBA		
Secretary of session: Res. assist. Arun Fabian PANAITE		
1	Ioan Cristian Schuszter and Marius Cioca - AN IMPLEMENTATION OF A FAULT-TOLERANT DATABASE SYSTEM USING THE ACTOR MODEL	14:00 – 14:10
2	Rus Cosmin, Monica Leba, Ioana-Nicoleta Negru, Răzvan Mărcuș and Marius-Nicolae Rîsteiu - ELECTRIC VEHICLES IN SMART GRID AND SMART CITY FOR PETROȘANI CASE	14:10 – 14:20
3	Catalin Negoita, Mirela Praisler and Iulia-Florentina Darie - AUTOMATIC IDENTIFICATION OF HALUGINOGENIC AMPHETAMINES BASED ON THEIR ATR-FTIR SPECTRA PROCESSED WITH CONVOLUTIONAL NEURAL NETWORKS	14:20 – 14:30
4	Fabian Arun Panaite, Sebastian-Daniel Rosca and Remus Sibisanu - POSE AND MOTION CAPTION TECHNOLOGIES	14:30 – 14:40
5	Olar Marius Leonard, Leba Monica and Risteiu Marius Nicolae - EXOSKELETON-WEARABLE DEVICES. A LITERATURE REVIEW	14:40 – 14:50
6	Michail Galetakis, Anthoula Vasiliou, Vasilios Deligiorgis, Emmanuel Steiakakis and Athanasia Soultana - APPLICATIONS OF FUZZY INFERENCE SYSTEMS IN MINERAL INDUSTRY-AN OVERVIEW	14:50 – 15:00
7	Nicolae Patrascoiu, Cosmin Rus, Cecilia Rosulescu and Nicoleta Negru - DATA ACQUISITION SYSTEM BASED ON TRANSDUCERS WITH MODBUS COMMUNICATION	15:00 – 15:10
8	Adelina Ion, Mirela Praisler, Catalina Mercedes Burlacu and Nicolae Catalin Stanica - AUTOMATIC IDENTIFICATION OF NBOME ILLICIT PSYCHOACTIVE SUBSTANCES BASED ON COMBINED MOLECULAR DESCRIPTORS	15:10 – 15:20
9	Simona Riurean - A STUDY ON THE VLC SECURITY AT THE PHYSICAL LAYER FOR TWO INDOOR SCENARIOS	15:20 – 15:30
10	Q&A	15:30 -

6. INDUSTRIAL AND MECHANICAL ENGINEERING AND TRANSPORTATION		
Access link:		13:45 – 14:00
Chairperson: Assoc. prof. dr. Andrei ANDRAȘ		
Secretary of session: Lect. dr. Stela DINESCU		
1	Ion Pana and Florinel Dinu - NUMERIC SIMULATION OF THE PULSATION BOTTLES FOR A RECIPROCATING COMPRESSOR IN DYNAMIC REGIME	14:00 – 14:10
2	Daniel Ion Matei, Marin Silviu Nan, Cristian Ionut Aron and Ionela Cristina Lepadus - CONTRIBUTIONS TO DEVELOPMENT OF AN INERTIAL SEPARATION SYSTEM FOR SUSPENDED SOLID PARTICLES IN AIR	14:10 – 14:20
3	Sandor Szirbik and Zoltan Virag - FINITE ELEMENT ANALYSIS OF AN OPTIMIZED HYBRID STIFFENED PLATE	14:20 – 14:30
4	Irimie Ioan Sabin, Roibu Dragos Ștefan and Vaduva Maria Oana - AGGREGATE INDICATOR FOR QUANTIFYING THE SUSTAINABILITY OF INCREASING ENERGY EFFICIENCY IN INDUSTRIAL PROCESSES	14:30 – 14:40
5	Stela Dinescu and Claudiu-Andrei Popescu - EXPERIMENTAL STUDY ON THE DETERMINATION OF AVERAGE CONCENTRATIONS OF POLLUTING EMISSIONS FOR A THERMOELECTRIC POWER PLANT	14:40 – 14:50
6	Sorin Popescu, Mirela Ancuta Radu, Stela Dinescu and Iulian Vladuca - STUDY OF THE POSSIBILITIES OF CO ₂ STORAGE IN THE UNDERGROUND CAVERNS OF DISSOLUTION SALT MINES	14:50 – 15:00
7	Nicoleta-Monica Lohan, Ștefan-Lucian Toma, Mihai Popa, Alin Marian Cazac and Bogdan Pricop - INFLUENCE OF ALLOYING ELEMENTS ON THE THERMAL BEHAVIOR OF NiTi SHAPE MEMORY ALLOYS	15:00 – 15:10
8	Tudor Alexandru and Cristina Pupaza - THE DEVELOPMENT OF PID TEMPERATURE CONTROLLERS BASED ON FEM THERMAL ANALYSIS	15:10 – 15:20
9	Q&A	15:20

8. RECENT TRENDS IN BUSINESS, ECONOMICS, LAW AND PUBLIC ADMINISTRATION		
Access link:		13:45 – 14:00
Chairperson: Assoc. prof. dr. Codruța DURA		
Secretary of session: Assoc. prof. dr. Mirela POPESCU		
1	Ana Maria Mihaela Iordache, Cezar Octavian Mihalcescu and Beatrice Sion - USING A SOFTWARE AS A SERVICE PROGRAM IN SALES-MARKETING: A CASE STUDY ON ODOO	14:00 – 14:10
2	Ticu Dorina - NEW TENDENCIES IN PUBLIC ADMINISTRATION: FROM THE NEW PUBLIC MANAGEMENT AND NEW GOVERNANCE TO E-GOVERNMENT	14:10 – 14:20
3	George Abuselidze and Mariam Sharabidze - COMPETITION IN THE GEORGIAN BANKING SECTOR AND ITS IMPACT ON THE CREDIT POLICY OF COMMERCIAL BANKS	14:20 – 14:30
4	Maria-Madalina Bogeaneu-Popa and Mariana Man - THE COMPANIES' CHARACTERISTICS IMPACT ON THE PERFORMANCE'S SUSTAINABLE REPORTING. CASE STUDY ON BUCHAREST STOCK EXCHANGE LISTED COMPANIES	14:30 – 14:40
5	Oana Dobre-Baron - PENSION RIGHTS OF VALEA JIULUI MINING COMPANIES' CLERKS THROUGH THE PRIVATELY ADMINISTERED PENSION HOUSE	14:40 – 14:50
6	Claudia Isac and Codruta Dura - ACTIVE HARMONIZATION OF HIGHER EDUCATION BACHELOR STUDY PROGRAMME IN THE AREA OF TRADE, TOURISM AND SERVICES TO THE LABOR MARKET DYNAMICS	14:50 – 15:00
7	Tatiana Antipova - IS IT WORTH INVESTING IN CRYPTOCURRENCY?	15:00 – 15:10
8	Maria Ciurea - APPROACHES REGARDING TO THE ENTREPRENEURIAL PRACTICES OF STUDENT IN ROMANIA	15:10 – 15:20
9	Bianca Cristina Ciocanea, Ioan Cosmin Pițu, Mihaela Paraschiva Luca and Dragoș Mihai Ungureanu - OPTIMISATION THROUGH OFFSHORE – BETWEEN REALITY AND LEGALITY	15:20 – 15:30
10	Alina Nitescu - ISSUES REGARDING THE IMPACT OF THE PANDEMIC ON THE LABOR MARKET	15:30 – 15:40
11	Anca Jarmila Guță - THE ROLE OF SOCIAL MEDIA PLATFORMS IN INCREASING THE EFFICIENCY OF ONLINE COMMUNICATION ACTIVITY	15:40 – 15:50
12	Preda Ana, Popescu Mirela and Driga Imola - THE IMPACT OF COVID -19 ON GLOBAL INSURANCE MARKET	15:50 – 16:00
13	Q&A	16:00 -

9. CONTEMPORARY APPROACHES IN QUALITY ASSURANCE, MANAGEMENT AND MARKETING		
Access link:		13:45 – 14:00
Chairperson: Prof. dr. Andreea IONICĂ		
Secretary of session: Assoc. prof. dr. Mihaela GHICAJANU		
1	Eduard Edelhauser, Lucian Lupu-Dima and Georgiana Grigoras - A MANAGERIAL PERSPECTIVE OVER ONE YEAR OF ONLINE EDUCATION IN ROMANIA. A CASE STUDY AT THE UNIVERSITY OF PETROSANI	14:00 – 14:10
2	Elena Marginean and Claudiu Vasile Kifor - ACADEMIC LIBRARY AS USER-CENTERED ORGANIZATIONS. CASE STUDY: THE QUALITY OF SERVICES PROVIDED BY THE LBUS LIBRARY	14:10 – 14:20
3	Raluca Dovleac - KNOWLEDGE MANAGEMENT SYSTEMS IN QUALITY 4.0	14:20 – 14:30
4	Ionela Samuil and Andreea-Cristina Ionica - BUSINESS MODEL BASED ON COMMUNITY FOR A SUSTAINABLE TOURISM DEVELOPMENT	14:30 – 14:40
5	Vasile-Ibrian Caramidaru and Andreea Ionica - BETWEEN PROJECT EFFICIENCY AND STAKEHOLDER'S INTERESTS: PROJECT INTAKE DECISIONS IN NONPROFIT ORGANIZATIONS	14:40 – 14:50
6	Nicu-Pantelimon Rotaru, Nicolae Tașcă and Eduard-Victor Edelhauser - COULD BE EFFICIENT MANAGEMENT A SOLUTION FOR THE SUCCESS AGAINST COVID-19	14:50 – 15:00
7	Nicolae Tasca, Nicu Pantelimon Rotaru and Lucian Lupu-Dima - A CHALLENGE FOR THE ROMANIAN MANAGEMENT COMPANIES – THE COMMUNICATION SPECIALIST	15:00 – 15:10
8	Celina Pogăciaș and Raluca Dovleac - IMPLEMENTATION AND IMPACT OF INDUSTRY 4.0 AND QUALITY 4.0 IN THE BANKING SECTOR	15:10 – 15:20
9	Q&A	15:20 -

10. ACHIEVEMENTS IN HUMANITIES AND SOCIAL SCIENCES		
11. EDUCATION RESEARCH, SUSTAINABLE DEVELOPMENT AND INTERDISCIPLINARY STUDIES		
Access link:		13:45 – 14:00
Chairperson: Prof. dr. Felicia ANDRIONI		
Secretary of session: Lect. dr. Laura MARICA		
1	Oana Filip and Lavinia Popp - PSYCHOSOCIAL IMPLICATIONS OF MARITAL RAPE	14:00 – 14:10
2	Liubov Pomytkina, Ruslana Moroz, Oleksandr Kovalchuk and Eduard Pomytkin - PSYCHOLOGICAL PREDICTORS OF FORMATION AND DEVELOPMENT OF PERSONAL IDENTITY OF OLDER PRESCHOOL CHILDREN	14:10 – 14:20
3	Cristina Adriana Dahm Tataru - BIOMECHANICAL CHANGES OF TEMPOROMANDIBULAR JOINT IN RESTORATION WITH IMPLANT SUPPORTED OVERDENTURES. FUNCTIONAL ANALYSIS	14:20 – 14:30
4	Maria Oana Vaduva, Laura Marica and Maria Luminita Brabiescu Calinescu - IMPROVING THE EXECUTION SPEED OF CHILDREN ALPINE SKIERS, IN ACCORDANCE WITH THE EVOLUTION OF TECHNIQUE FOR SLALOM TESTS	14:30 – 14:40
5	Chirugu Gianina and Andrioni Felicia - STUDY ON THE EUROPEAN FRAMEWORK FOR THE APPLICATION OF THE ACTIVE AGEING INDEX	14:40 – 14:50
6	Tatiana Dănescu and Radu Bogdan Matei - SUSTAINABLE DEVELOPMENT: BEYOND APPEARANCES	14:50 – 15:00
7	Mykola Petrusenko and Hanna Shevchenko - THE DEVELOPMENT OF ENVIRONMENTALLY RELEVANT EDUCATIONAL ACTIVITIES WITHIN INNOVATION PARKS: THE CASE OF UKRAINE	15:00 – 15:10
8	Constantin Anghelache, Madalina Gabriela Anghel and Stefan Virgil Iacob - ECONOMIC AND SOCIAL DEVELOPMENT BASED ON EDUCATION, RESEARCH AND INDUSTRY	15:10 – 15:20
9	Sorina Corman - THE ELDERLY AND QUALITY IN SOCIAL SERVICES: STANDARDS, INDICATORS, PROCEDURES AND TOOLS	15:20 – 15:30
10	Lada Yakovytska, Viktoriia Synyshyna, Eduard Pomytkin and Olena Khokhlina - PSYCHOLOGICAL AND PEDAGOGICAL CORRELATES OF FORMATION OF COMMUNICATIVE COMPETENCE OF FUTURE PSYCHOLOGISTS-PRACTITIONERS	15:30 – 15:40
11	Cristea Plesan Niculeta - OBSERVATION GRID OF STUDENT BEHAVIOUR IN THE SCHOOL ENVIRONMENT	15:40 – 15:50
12	Constantin Anghelache, Madalina Gabriela Anghel and Stefan Virgil Iacob - SCIENCE, RESEARCH AND INNOVATION, ESSENTIAL ELEMENTS IN THE ECONOMIC EVOLUTION OF THE EUROPEAN UNION	15:50 – 16:00
13	Sicrea Cosmin-Constantin and Andrioni Felicia - PROFESSIONAL INCLUSION OF YOUNG PEOPLE AFFECTED BY THE HUMAN IMMUNODEFICIENCY VIRUS IN THE JIU VALLEY	16:00 – 16:10
14	Diana Ranf, Hortensia Gorski, Dorel Badea and Ioan Virca - COMPARATIVE APPROACH TO ICT PRACTICES IN CIVILIAN AND MILITARY ENVIRONMENTS FOR ORGANIZATIONAL MANAGEMENT DURING THE PANDEMIC CRISIS	16:10 – 16:20
16	Q&A	16:20 -

PARALLEL WORKSHOPS
FRIDAY 28.05.2021, starting at 15:00

EURECA-PRO – Sustainable production and consumption. Today and tomorrow	
Access link:	14:45 – 15:00
Chairperson: Prof. dr. Dan Codruț PETRILEAN	

RAFF – Risk assessment of final pits during flooding	
Access link:	14:45 – 15:00
Chairperson: Sci. res. dr. Adam BAJCAR	
Secretary of session: Assist. prof. dr. Izabela-Maria APOSTU	

RIS – CuRE – Zero waste recovery of cooper tailings in the ESEE region	
Access link:	14:45 – 15:00
Chairperson: Sci. res. dr. Alenka MAUKA	
Secretary of workshop: Assoc. prof. dr. Eugen TRAIȘTĂ	

CoVid -19 Pandemic. Causes, implications and interdisciplinary resolute perspectives	
Access link:	14:45 – 15:00
Chairperson: Prof. dr. Felicia ANDRIONI	
Secretary of workshop: Lect. dr. Mihai POPESCU-ȘTELEA	