



**INTERNATIONAL MULTIDISCIPLINARY SYMPOSIUM
"UNIVERSITARIA SIMPRO 2022"**

- 10th EDITION -

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

University of Petroșani

October 27 - 29, 2022

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

”UNIVERSITARIA SIMPRO 2022”

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**

**AUTORITATEA NAȚIONALĂ PENTRU CERCETARE ȘTIINȚIFICĂ
NATIONAL AUTHORITY FOR SCIENTIFIC RESEARCH**

**27 – 29 OCTOBER, 2022
PETROȘANI**

UNIVERSITARIA SIMPRO 2022

GENERAL PROGRAM

27 October 2022

Access link: <https://us06web.zoom.us/j/84541066640?pwd=S0VyY2lveW9LcGdnSWhuZk42M1hxUT09>

- 09:00 – 10:00¹ Welcome and registration – University of Petroșani Library – 1st floor lobby
- 10:00 – 10:15 Opening ceremony (hybrid event) – University of Petroșani Library – Conference room
Maria LAZĂR, Research vicerector, University of Petroșani
Sorin-Mihai RADU, Rector, University of Petroșani
George Artur GAMAN, General director, NIRD INSEMEX Petroșani
- 10:20 – 12:00 Plenary lectures (hybrid event) – University of Petroșani Library – Conference room
- 10:20 – 10:40 **Carsten DREBENSTEDT**, Bergakademie Technische Universität Freiberg, Germany – Contributions of mining sciences for space exploration.
- 10:40 – 11:00 **Adam BAJCAR**, Poltegor - instytut, Poland – Development of post-mining areas.
- 11:00 – 11:20- **Iuliu WINKLER**, Member of the European Parliament, Romania – The role of critical raw materials in the energy transition of the European Union
- 11:20 – 11:40 **Zoltan Istvan VIRÁG**, University of Miskolc, Hungary – Finite element analysis of a cutting and hauling mining adapter.
- 11:40 – 12:00 **Anca DRĂGHICI**, University “Politehnica” of Timișoara, Romania – Exploiting multimedia technologies in education, research, and university-community projects.
- 12:00 – 13:00 Lunch break (University of Petroșani Library – Lecture room)
- 13:00 – 15:00 Parallel sessions
- 15:00 – 15:30 Coffee break (University of Petroșani – Building C – 1st floor lobby)
- 15:30 – 17:30 Parallel sessions
- 19:00 Gala dinner (“La Belle Epoque” Restaurant, Petroșani)

28 October 2022

ROUND TABLE - EURECA-PRO OPEN SCIENCE EVENT

„RESPONSIBLE PRODUCTION AND CONSUMPTION, ENERGY, GREEN AND DIGITAL TRANSITION IN
CONTEXT OF AGENDA 2030”

Access link: <https://us06web.zoom.us/j/84541066640?pwd=S0VyY2lveW9LcGdnSWhuZk42M1hxUT09>

- 10:00 – 10:15 Short introduction to the topic (hybrid event)
Dan Codruț PETRILEAN, European projects, the economic environment, university promotion and admission vicerector, University of Petroșani
- 10:15 – 12:00 Speeches/short presentations and discussions (hybrid event)
- 12:00 – 13:00 Lunch
- 13:30 – 14:30 Visit to the Mining Museum, Petroșani
- 15:00 – 16:30 Visit to the Museum of Romanian Plumber, Petroșani
- 18:30 Dinner (Retezat Pension, Uricani)

¹ Bucharest Time

PARALLEL SESSIONS
THURSDAY 27.10.2022, 13:00 – 17:30

1a. ADVANCES IN SAFETY SCIENCE AND OCCUPATIONAL RISK MANAGEMENT		
Topo1 (Laboratory of topography) – University of Petroșani – Building C		
Chairpersons: Prof. dr. Roland MORARU Sci. res. I dr. Mihaela PĂRĂIAN		
Secretary of session: Lect. dr. Laura MARICA		
1	Roland Iosif Moraru, Mihai Popescu-Stelea, Gabriel Bujor Băbuț CHEMICAL RISK RANKING AND EVALUATION: CASE STUDY IN A PAINT MANUFACTURING COMPANY	13:00 – 13:15
2	Alina Trifu, Daniel Onut Badea, Doru Costin Darabont, Iulian Ivan DISABILITY-SENSITIVE OCCUPATIONAL RISKS ASSESSMENT	13:15 – 13:30
3	Daniel Onut Badea, Alina Trifu, Doru Costin Darabont and Bogdan Țarnău EFFECTIVENESS OF PERSONAL PROTECTIVE EQUIPMENT IN WORKING WITH PESTICIDES – A SYSTEMATIC REVIEW	13:30 – 13:45
4	Dan Gabor, Florin Adrian Păun, Anca Tăzlăuanu THE DANGER OF INITIATING EXPLOSIVES BY ELECTROSTATIC DISCHARGE. CHECKING THE LEVEL OF SENSITIVITY OF EXPLOSIVES TO ELECTROSTATIC DISCHARGES	13:45 – 14:00
5	Paraian Mihaela, Jurca Adrian Marius, Matei Daniel Ion, Mangu Sorin Iuliu EXPLOSION RISK ASSESSMENT FOR ALREADY INSTALLED EQUIPMENT	14:00 – 14:15
6	Florin Adrian Păun, Mirela Ancuța Radu, Ana Petrina Păun DETERMINATION BY STANDARDIZED TEST METHODS OF ELECTROSTATIC DISCHARGE SENSITIVITY OF ELECTRIC IGNITERS IN ORDER TO PREVENT THEIR UNEXPECTED INITIATION	14:15 – 14:30
	Q&A	14:45 – 15:00
BREAK 15:00 – 15:30 (University of Petroșani – Building C – 1st floor lobby)		
7	Cătălin Mihai Popa, Dan Sorin Gabor ASPECTS OF EXPLOSION RISK ASSESSMENT FOR A BUCKET ELEVATOR	15:30 – 15:45
8	Irina Nalboc, Maria Prodan, Szollosi-Moța Andrei, Suvar Sonia EXPERIMENTAL DETERMINATION OF THE LOWER EXPLOSION LIMIT FOR TWO GASOLINE SAMPLES	15:45 – 16:00
9	Doru Cioclea, Ion Gherghe, Cristian Tomescu, Emeric Chiușan, Alexandru Cămărășescu THE DYNAMICS OF CARBON OXIDE EVACUATION FROM CLOSED ENCLOSURES	16:00 – 16:15
10	Ion Gherghe, Doru Cioclea, Corneliu Boanta, Florin Radoi, Sonia Suvar VARIATION OF AIR CONDITION PARAMETERS, IN THE CONDITIONS OF THE PRESENCE OF CARBON MONOXIDE, IN THE DUCT OF VENTILATION INSTALLATIONS	16:15 – 16:30
11	Sorin Burian, Cosmin Ioan Colda GENERAL CONSIDERATION REGARDING FAULT – FIND, TESTS AND MAINTENANCE IN THE INSTALLATIONS IN HAZARDOUS AREAS	16:30 – 16:45
12	Mihai Magyari, Marcel Daniel Rad, Dragos Fotau CONSIDERATIONS REGARDING THE MAIN DIFFERENCES AND PARTICULARITIES BETWEEN THE TESTING OF FLAMEPROOF ELECTRIC MOTORS, DESIGNED FOR EXPLOSION GROUP IIC, COMPARED TO EXPLOSION GROUP IIB, WHEN TESTING IN EXPLOSIVE MIXTURES	16:45 – 17:00
	Q&A	17:00 -

1b. ADVANCES IN SAFETY SCIENCE AND OCCUPATIONAL RISK MANAGEMENT		
LES (Laboratory of underground mining) – University of Petroșani – Building C		
Chairpersons: Lect. dr. Mihai POPESCU-STELEA Sci. res. II dr. Vlad Mihai PĂSCULESCU		
Secretary of session: Lect. dr. Cristina Tamara DUMITRAȘCU		
1	Marius Darie, Alexandru Beldiman, Ioana Ciobanu PARTICULAR ASPECTS OF THE TESTS FOR IGNITION OF SMALL COMPONENTS	13:00 – 13:15
2	Ligia Ioana Tuhut, Laurentiu Munteanu, Adrian Bogdan Șimon-Marinică, Andrada Denisa Matei EXPLOSIVES IDENTIFICATION BY INFRARED SPECTROMETRY	13:15 – 13:30
3	Gabriela Pupăzan, Dănuț Grecea DILUTION IN PRESSURIZED ENCLOSURES – CRITICAL POINTS	13:30 – 13:45
4	Gabriela Pupăzan, Tiberiu Csaszar TESTS FOR PRESSURISED EQUIPMENT - UPGRADE POSSIBILITIES	13:45 – 14:00
5	Alexandru Beldiman, Tiberiu Csaszar MAINTENANCE OF ON-PREMISE TEST EQUIPMENT FOR HIGH QUALITY TESTS	14:00 – 14:15
6	Adriana Andris, Marius Darie STATISTICAL ANALYSIS AND TRENDS IN PERSONNEL AUTHORISATION FOR ACTIVITIES RELATED TO EXPLOSIVE ATMOSPHERES	14:15 – 14:30
	Q&A	14:30 – 15:00
BREAK 15:00 – 15:30 (University of Petroșani – Building C – 1st floor lobby)		

7	Colda Cosmin, Sorin Burian, Gheorghe Marc STUDY OF THE POSSIBILITY OF ENSURING EMERGENCY LIGHTING IN INSTALLATIONS OPERATING IN ENVIRONMENTS EX	15:30 – 15:45
8	Gabriel Dragos Vasilescu, Cristian Radeanu, Ciprian Ilie Jitea, Bogdan Garaliu-Bușoi, Doru Anghelache TECHNICAL-SCIENTIFIC CONSIDERATIONS REGARDING THE REDUCTION THE EXPLOSION EFFECTS GENERATED BY THE EXPLOSIVE MATERIALS ON PERSONS AND INDUSTRIAL AND CIVIL OBJECTIVES	15:45 – 16:00
9	Anton Darsy, Dan Dumitru Pintilie, Simona Cucaila, Narcis Popa, Florin Vedins DEVELOPMENT OF A SPECIALIZED COMPUTER APPLICATION „AQNOISE.EXE 01” ON THE INTEGRATED QUALITY MANAGEMENT SYSTEM SPECIFIC TO NOISE TESTING AND CERTIFICATION ACTIVITIES	16:00 – 16:15
10	Adrian Malciu, Cristina Pupăză, Constantin-Cristinel Puică, Iuliana-Florina Pană FINITE ELEMENT MODEL VALIDATION FOR A 14.5 MM ARMOR PIERCING BULLET IMPACT ON A MULTI-LAYERED ADD-ON ARMOR PLATE	16:15 – 16:30
11	Danut Grecea, Adriana Andris, Aurelian Nicola ASSESSMENT AND ANALYSIS OF POTENTIALLY EXPLOSIVE AREAS IN DISTRIBUTION STATIONS, GENERATED BY ALTERNATIVE FUELS SUCH AS LPG, CNG AND H2	16:30 – 16:45
12	Lorand Toth, George Artur Găman, Daniel Pupăzan, Alin Irimia, Izabella Kovacs IDENTIFICATION OF QUANTIFIABLE BIOLOGICAL PARAMETERS FOR RESCUE PERSONNEL IN THE CONTEXT OF RELATIONAL ANALYSIS OF HAZARDOUS ENVIRONMENTS	16:45 – 17:00
	Q&A	17:00 -

1c. ADVANCES IN SAFETY SCIENCE AND OCCUPATIONAL RISK MANAGEMENT		
LFoto (Laboratory of photogrammetry) – University of Petroșani – Building C		
Chairpersons: Sci. res. I dr. Gabriel VASILESCU		
Assoc. prof. dr. Ciprian DANCIU		
Secretary of session: Assist. res. Arun Fabian PANAITE		
1	Cosmin Ilie, George Artur Gaman, Daniel Pupazan, Cristian Nicolescu, Andrei Gireada STUDIES REGARDING THE STRUCTURING OF PHYSICAL EFFORT OF RESCUERS IN THE PROCESS OF PRACTICAL TRAINING IN THE MOBILE TRAINING FACILITY	13:00 – 13:15
2	Gheorghe Daniel Florea, Emilian Ghicioi, Nicolae-Ioan Vlasin, Zoltan Vass RELEASE OF OVERPRESSURES IN COMPUTATIONAL SIMULATIONS OF AIR-METHANE EXPLOSIONS	13:15 – 13:30
3	Niculuna Vatavu, Mihai Popa, Sorin Vătavu QUALITY ASSURANCE ISSUES FOR NORMAL GRADE TESTING PROTECTION PROVIDED BY EQUIPMENT HOUSINGS EX	13:30 – 13:45
4	Cristian Radeanu, Gabriel Vasilescu, Ilie-Ciprian Jitea, Ladislau Radermacher, Gabriel Ilcea ANALYSIS OF DANGEROUS SITUATIONS GENERATED BY EXPLOSIVE MATERIALS IN NON-COMPLIANT OPERATIONS PERFORMED ON INDUSTRIAL LOCATIONS INTENDED FOR THEIR STORAGE	13:45 – 14:00
5	Rus Daniela, Miron Claudia, Miclea Olga, Ilici Claudia, Grecea Mircea COMPUTERIZED SIMULATIONS AND MODELLING FOR EVALUATION OF BALLISTIC AND SECURITY PARAMETERS OF EXPLOSIVES FOR CIVIL USE	14:00 – 14:15
6	Adrian Bogdan Simon-Marinica, Vlad Mihai Pasculescu, Florin Manea, Zoltan Vass THE USE OF COMPUTATIONAL FLUID DYNAMICS APPLICATIONS TO VARIOUS FLOW PROBLEMS	14:15 – 14:30
	Q&A	14:30 – 15:00
BREAK 15:00 – 15:30 (University of Petroșani – Building C – 1st floor lobby)		
7	Maria Haiducu, Raluca Aurora Ștepa, Iuliana Pamela Scarlat, Elena Ruxandra Chiurtu STUDIES ON THE EXPOSURE OF WORKERS TO FINE PARTICLES FROM DIESEL ENGINE EXHAUST EMISSIONS GENERATED IN URBAN TRANSPORT	15:30 – 15:45
8	Lăutaru Vlad, Simion Alexandru, Simion Sorin EXPERTISE OF THERMAL ENVIRONMENT IN METALLURGICAL COMPLEXES IN ROMANIA	15:45 – 16:00
9	Alin Irimia, Cristian Nicolescu, Cosmin Ilie, Andrei Gireada, Izabella Kovacs RESEARCH ON THE IMPROVEMENT OF THE RESCUERS TRAINING FACILITY FOR THE PRACTICAL PERFORMANCE TESTS OF RESPIRATORY PROTECTION DEVICES	16:00 – 16:15
10	Georgeta Buică, Antonov Anca Elena, Constantin Beiu, Mircea Risteiu ASPECTS OF THE EARTHING AND SHORT-CIRCUIT DEVICES' SAFETY QUALITY	16:15 – 16:30
11	Florin Manea, Emilian Ghicioi, Ligia Ioana Tuhut, Marius Cornel Suvar IMAGING DOCUMENTATION IN THE ON-SITE INVESTIGATION OF EXPLOSION/ FIRE EVENTS	16:30 – 16:45
12	Marioara Tulpan, Cristina Suci, Marius Cucăilă, Simona Cucăilă, Mircea Saracuț DECISION ANALYSIS WITHIN THE SMALL COMPANY FOR SPECIALIZED EQUIPMENT DESTINATED FOR MONITORING THE SAFETY MINING PARAMETERS	16:45 – 17:00
13	Cristina Suci, Marioara Tulpan, Marius Cucăilă, Alexandra Offenber, Mircea Sărăcuț METHODOLOGICAL TOOLS FOR PROJECT RISK MANAGEMENT	17:00 – 17:15
	Q&A	17:15 -

2. CHALLENGES IN GEOLOGY, MINING AND MINERAL PROCESSING		
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3. SURVEYING AND CIVIL ENGINEERING		
Magazine Hall – University of Petroșani – Library		
Chairpersons: Prof. dr. Ilie ONICA		
Assoc. prof. dr. Dacian Paul MARIAN		
Secretary of session: Lect. dr. Klaus FISSGUS		
1	Dragoescu Razvan, Chiuзан Emeric, Gherghe Ion, Matei Adrian, Camarasescu Alexandru CLASSIFICATION OF THE OCNELE MARI SALINE FROM THE POINT OF VIEW OF GAS EMISSIONS (CH ₄ AND CO ₂)	13:00 – 13:15
2	Attila Kovacs, Bogdan Garaliu-Buşoi, Daniela Carmen Rus, Claudia Miron, Olga Miclea METHODOLOGY FOR MEASURING THE SEISMIC EFFECTS GENERATED BY QUARRY BLASTING WORKS	13:15 – 13:30
3	Bogdan Ioan Marc, Alexandra Soica Stanimirescu, Razvan Bogdan Itu DEWATERING OF WATERS FROM SURFACE QUARRIES IN THE OLTENIA BASIN WITH THE HELP OF HORIZONTAL DRILLING	13:30 – 13:45
4	Stefanos Tsachouridis, Francis Pavloudakis, Constantinos Pilalidis, Loukas Myronidis, Christos Roumpos MONITORING SLOPE STABILITY IN SURFACE MINES: ARE LOW-COST UAVS USED FOR EXCAVATED ROCK VOLUME CALCULATIONS CAPABLE OF EARLY DETECTION OF DISPLACEMENTS?	13:45 – 14:00
5	Robert Laszlo, Edward Gheorghiosu, Stefan Ilici, Aurelian Nicola, Stefan Usurelu TESTING THE CONSTRUCTIVE STRENGTH OF A CONTAINER ARRANGED AS A MOBILE DEPOSIT OF EXPLOSIVE MATERIALS	14:00 – 14:15
6	Paul Grigorescu LEGISLATIVE ASPECTS AT NATIONAL AND INTERNATIONAL LEVEL REGARDING THE EXPLOITATION OF GOLD-SILVER DEPOSITS	14:15 – 14:30
7	Marian Cătălin Nistor, Cristina Tamara Dumitraşcu, Ladislau Radermacher OPTIMIZATION OF THE CONSTRUCTIVE SYSTEM LINING – METALLIC SUPPORT STRUCTURE IN ORDER TO REDUCE DEFORMATION SPEEDS OF HORIZONTAL MINING WORKS EXECUTED IN DEEP LAYER SEDIMENTARY ROCKS	14:30 – 14:45
	Q&A	14:45 –

4. SUSTAINABLE ENVIRONMENTAL ENGINEERING AND PROTECTION		
LEZ (Laboratory of open-pit mining) – University of Petroșani – Building C		
Chairpersons: Prof. dr. Mircea GEORGESCU		
Sci. res. I dr. Angelica Nicoleta GĂMAN		
Secretary of session: Assist. prof. dr. Izabela-Maria APOSTU		
1	Niculina Sonia Şuvar, Irina Nalboc, Maria Prodan, Andrei Szollosi-Mota DETERMINATION OF THE CHEMICAL COMPOSITION OF WASTE DUST FROM PROCESS OPERATIONS – CASE STUDY	13:00 – 13:15
2	Marius Kovacs, Angelica-Nicoleta Găman, Lorand Toth, Romeo Hriscan INTERLABORATORY COMPARISONS FOR DEMONSTRATING THE COMPETENCE OF TWO SIMILAR MOBILE LABORATORIES	13:15 – 13:30
3	Maria Lazar, Florin Faur, Izabela-Maria Apostu, Constantin Rada ASSESSMENT OF THE TECHNICAL CONDITIONS OF JIETŢ WASTE DUMP IN THE CONTEXT OF ITS REINTEGRATION INTO THE SURROUNDING LANDSCAPE	13:30 – 13:45
4	Emilia-Cornelia Dunca, Romulus-Iosif Sârbu, Daniela-Ionela Ciolea PROCESS FOR STABILIZATION OF HEAVY METALS FROM SOLID WASTE RESULTING IN THE PROCESS OF ACID MINING WATER TREATMENT	13:45 – 14:00
5	Edward Gheorghiosu, Robert Laszlo, Attila Kovacs, Stefan Ilici, Sorin Mihai ACOUSTIC ZONING FOR THE SAFE USE OF EXPLOSIVES IN THE OPEN PIT	14:00 – 14:15
6	Izabela-Maria Apostu, Florin Faur CAR ACCESS TO MOUNTAIN RESORTS - ADVANTAGES AND DISADVANTAGES. CASE STUDY: PARÂNG RESORT	14:15 – 14:30
	Q&A	14:30 – 15:00
BREAK 15:00 – 15:30 (University of Petroșani – Building C – 1st floor lobby)		
Chairpersons: Prof. dr. Carsten DREBENSTEDT		
Prof. dr. Maria LAZĂR		
Secretary of session: Assist. prof. dr. Izabela-Maria APOSTU		
7	Romeo Lucian Hrişcan, Marius Emilian Kovacs, Sorin Victor Simion RESEARCH ON EMISSIONS FROM LARGE COMBUSTION PLANTS (IMA). CASE STUDY	15:30 – 15:45
8	Alexandru Florin Simion, Angelica Nicoleta Găman, Vlad Alexandru Lăutaru ANALYSIS OF TOTAL CONTENT OF PETROLEUM PRODUCTS IN WATER BY USING FTIR SPECTROSCOPY	15:45 – 16:00

9	Martin Kofi Mensah, Carsten Drebenstedt, Ibukun Momoriola Ola, Precious Uchenna Okoroafor, Edward Debrah Wiafe JATROPHA CURCAS AND MANIHOT ESCULENTA ARE POTENTIAL SUPER PLANTS FOR PHYTOREMEDIATION IN MULTI-CONTAMINATED MINE SPOILS	16:00 – 16:15
10	Clementina Sabina Moldovan, Sebastian Sbîrnă, Liana Simona Sbîrna PRESENTING AIR QUALITY STATUS THROUGH HOT SPOT MAPS REALIZED BY USING KERNEL DENSITY ESTIMATION (KDE) - CASE STUDY: CRAIOVA, 2020/2021	16:15 – 16:30
11	Gabriela Banaduc, Nicoleta Mirea, Anca Drăghici POINTS OF INTERSECTION BETWEEN SUSTAINABILITY AND PROJECT MANAGEMENT	16:30 – 16:45
	Q&A	16:45 -

5. INNOVATIONAL CHALLENGES IN ELECTRICAL ENGINEERING AND ENERGETIC TECHNOLOGY

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6. DEVELOPMENTS IN SYSTEMS CONTROL, INFORMATION TECHNOLOGY AND CYBERSECURITY

LC0 (Software Engineering) – University of Petroșani – Building A

Chairpersons: Prof. dr. Monica LEBA

Assoc. prof. dr. Dragoș PĂSCULESCU

Secretary of session: Assoc. prof. dr. Florin Gabriel POPESCU

1	Lucian Moldovan, Mihai Magyari ASPECTS REGARDING THE REPAIR OF ELECTRICAL EQUIPMENT DESIGNED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES	13:00 – 13:15
2	Dragos Fotau, Sorin Zsido, Anca Alexandra Tazlauanu USE OF THE HIGH VOLTAGE SOURCE IN ORDER TO VERIFY THE INSULATION SYSTEMS OF ELECTRIC MOTORS WITH THE TYPE OF PROTECTION INCREASED SAFETY USED IN POTENTIALLY EXPLOSIVE ATMOSPHERE	13:15 – 13:30
3	Marius Cornel Suvar, Laurentiu Munteanu, Cristian Cioara OPTIMAL MONITORING OF SERVER ROOMS WITH HOME ASSISTANT PLATFORM	13:30 – 13:45
4	Marcel Daniel Rad, Diana Salasan, Sorin Zsido STUDY ON COMMON ASPECTS OF THE TYPES OF PROTECTION FOR ELECTRICAL EQUIPMENT USED IN EXPLOSIVE ATMOSPHERES	13:45 – 14:00
5	Lucian Moldovan, Diana Salasan, Clementina Sabina Moldovan CONSIDERATIONS ON THE TYPE OF PROTECTION INCREASED SAFETY “E”	14:00 – 14:15
6	Nicolae Patrascoiu, Rus Cosmin, Ioana-Nicoleta Negru, Cecilia Rosulescu USING VIRTUAL INSTRUMENTATION IN THE APPLICATION STUDY OF ELECTRONIC DEVICES	14:15 – 14:30
7	Vlad Mihai Pasculescu, Nicolae Ioan Vlasin, Marius Simion Morar, Gheorghe Daniel Florea COMPUTER APPLICATION FOR FACILITATING THE CHOICE OF EX EQUIPMENT	14:30 – 14:45
	Q&A	14:45 –

7. INDUSTRIAL AND MECHANICAL ENGINEERING AND TRANSPORTATION

L12 (Laboratory of mechanics) – University of Petroșani – Building A

Chairpersons: Assoc. prof. dr. Andrei ANDRAȘ

Lect. dr. Aurelian NICOLA

Secretary of session: Lect. dr. Stela DINESCU

1	Nicoleta Craciun THE EFFECTS OF HUMIDITY AND TEMPERATURE ON THE LANYARDS PERFORMANCE	13:00 – 13:15
2	Mirela Ancuta Radu, Lazar Avram, Daniel Ioan Matei DEVELOPMENT OF METHODS FOR ASSESSING THE SAFETY OF DUST REMOVAL FACILITIES IN ENVIRONMENTS WITH A DANGER OF EXPLOSIVE ATMOSPHERE	13:15 – 13:30
3	Irina-Maria Bîndac, Scott Bradley, Petru Roșca, Cristina Pupăză, Tiberiu Giurgiu THEORETICAL AND EXPERIMENTAL RESEARCH ON THE DOUBLE LANE CHANGE MANEUVER	13:30 – 13:45
4	Bogdan Marian Verdete, Corneliu Rontescu, Tudor George Alexandru CAPTURING THE TEMPERATURE GRADIENTS OF GMAW HARDFACING PROCESSES BY EMPLOYING CFD AND FEM SIMULATION PROCEDURES	13:45 – 14:00
5	Sorin Popescu, Mihai Sorin Radu, Florin Vlceanu, Stela Dinescu RESEARCH ON THE SETTING OF MAXIMUM PRESSURE IN SALT CAVERNS INTENDED FOR CO ₂ STORAGE	14:00 – 14:15
6	Omar Lanchava, Nicolae Ilias, Giorgi Javakhishvili, Sorin Mihai Radu, Leon Makharadze INFLUENCE OF CURRENT DIRECTION IN LONGITUDINALLY VENTILATED ROAD TUNNELS ON BACKFLOW OF COMBUSTION PRODUCTS	14:15 – 14:30
7	Bogdan I. Gaita, Dan Codrut Petrilean, Andreea Cristina Tataru SPECIAL LIFTING AND TRANSPORT SOLUTIONS FOR HEAVY AND COMPLEX LOADS IN THE DESIGN OF THE LIFTING FRAME	14:30 – 14:45
	Q&A	14:45 –

8. RECENT TRENDS IN BUSINESS, ECONOMICS, LAW AND PUBLIC ADMINISTRATION + 10. SUSTAINABLE DEVELOPMENT IN HUMANITIES, SOCIAL SCIENCES, EDUCATION RESEARCH AND INTERDISCIPLINARY STUDIES		
Eu-Antreprenor Headquarter – University of Petroșani – Building D		
Chairpersons: Prof. dr. Anca DRĂGHICI Assoc. prof. dr. Codruța DURA		
Secretary of session: Assoc. prof. dr. Mirela POPESCU		
1	Codruta Dura, Imola Driga, Ana Maria Mihaela Iordache SOFTWARE-AS-A-SERVICE PROGRAMS AND PROJECT MANAGEMENT: A CASE STUDY ON ODOO ERP	13:00 – 13:15
2	Constantin Anghelache, Madalina-Gabriela Anghel, Ștefan Virgil Iacob, Marius-Cristian Răduț, Iulian Radu THE CURRENT CRISES ARE NEGATIVELY AFFECTING THE BUSINESS AND MACROECONOMIC STABILITY	13:15 – 13:30
3	Claudia Isac, Dorina Nita, Ciprian Nimara THE ROLE OF UNIVERSITY - BUSINESS PARTNERSHIPS IN INCREASING STUDENTS ENTREPRENEURIAL SKILLS	13:30 – 13:45
4	Sorina Corman THE RELATIONAL SYSTEM OF THE ELDERLY AFTER RETIREMENT	13:45 – 14:00
5	Sorina Corman ELDERLY ACTIVITIES BEFORE AND AFTER RETIREMENT	14:00 – 14:15
6	Raluca Maria Iordache, Delia Mihaila, Viorica Petreanu WORK CONDITIONS AND MENTAL DEMANDS IN MUSEUM ACTIVITY	14:15 – 14:30
7	Anzhelika Karaeva, Gabriela Ionescu, Lucian-Ionel Cioca, Athanasia Tolkou ROLE OF EU AND NON-EU UNIVERSITIES IN ACHIEVING ENVIRONMENTAL SUSTAINABILITY	14:30 – 14:45
	Q&A	14:45 –

9. CONTEMPORARY APPROACHES IN QUALITY ASSURANCE, MANAGEMENT AND MARKETING		
SC (Conference room) – University of Petroșani – Library		
Chairpersons: Prof. dr. Eduard EDELHAUSER Prof. dr. Andreea IONICĂ		
Secretary of session: Assoc. prof. dr. Mihaela GHICAJANU		
1	Adrian Marius Jurca, Mihaela Paraian, Niculina Vatavu QUALITY ASSURANCE FOR THE TESTS TO DETERMINE EXPLOSIVE PARAMETERS OF THE COMBUSTIBLE DUST-AIR MIXTURES	13:00 – 13:15
2	Eduard Edelhauser, Lucian Lupu-Dima A NEW ACADEMIC MANAGEMENT VISION FOR THE UNIVERSITY OF PETROSANI	13:15 – 13:30
3	Raluca Dovleac SHAPING A QUALITY FRAMEWORK FOR IIOT COMPANIES	13:30 – 13:45
4	Antonov Anca Elena, Georgeta Buică, Constantin Beiu, Remus Dobra MANAGEMENT OF OCCUPATIONAL SAFETY AND HEALTH IN THE COMMISSIONING OF DEFECTIVE WORK EQUIPMENT IN THE MANUFACTURING INDUSTRY	13:45 – 14:00
5	Daniela Ramona Stoi, Eduard Edelhauser INCREASING THE QUALITY OF MEDICAL SERVICES BY STREAMLINING THE HUMAN RESOURCES MANAGEMENT	14:00 – 14:15
6	Andreea C. Ionica, Monica Leba, Ahmad Fuad Saad EXPLORING THE POSSIBILITIES OF USING PROJECT MANAGEMENT METHODOLOGIES IN THE 21ST CENTURY EDUCATION	14:15 – 14:30
7	Ionela Samuil, Andreea-Cristina Ionica ON INDUSTRIAL TOURISM AS A VIABLE PERSPECTIVE FOR THE JIU VALLEY	14:30 – 14:45
	Q&A	14:45 – 15:00

ROUND TABLE
FRIDAY 28.10.2022, starting at 10:00

ROUND TABLE - EURECA-PRO OPEN SCIENCE EVENT: „RESPONSIBLE PRODUCTION AND CONSUMPTION, ENERGY, GREEN AND DIGITAL TRANSITION IN CONTEXT OF AGENDA 2030”	
Hybrid event	
Access link: https://us06web.zoom.us/j/84541066640?pwd=S0VyY2lveW9LcGdnSWhuZk42M1hxUT09	10:00 – 12:00
SC (Conference hall) – University of Petroșani – Library	
Chairperson: Prof. dr. Dan Codruț PETRILEAN	
Secretary of session: Cosmin RUS	

ÎN PARTENERIAT CU / IN PARTNERSHIP WITH:

**Consiliul Județean Hunedoara
Hunedoara County Council**

**Inspekția Muncii
Labour Inspectorate**

**Asociația Absolvenților Universității din Petroșani, ALUMNI
ALUMNI Association of the University of Petrosani**

**Sindicatul CDPM din Universitatea din Petroșani
University of Petrosani CDPM Union**

**Salrom – Societatea Națională a Sării
Salrom – National Salt Society**

**INCDPM “Alexandru Darabont” București
NIRDLP “Alexandru Darabont” Bucharest**

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