

**10th International Symposium
Occupational Health and Safety**

SESAM 2021

SYMPOSIUM PROGRAM

MAIN ORGANIZER



**NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT
IN MINE SAFETY AND PROTECTION TO EXPLOSION
INSEMEX**

CO-ORGANIZERS



LABOUR INSPECTION

UNDER THE AUSPICES OF



**MINISTRY OF RESEARCH, INNOVATION
AND DIGITALISATION**

**18th October 2021
Online Edition
PETROSANI, ROMANIA**

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Aurelian Nicola	Edward Jan Gheorghiosu
Liviu Mirea	Vlad Mihai Păsculescu
Mihai Mindru	Marius Cornel Șuvar
Dumitru Banici	Nicolae Ioan Vlasin
Adina Harbagiu	Mihaela Dalea
Marius Darie	Ligia Ioana Tuhuț

Program Overview

Monday, 18th October 2021

- 08³⁰ – 09⁰⁰ *** **SESAM 2021 On-line Opening Ceremony connection**
- 09⁰⁰ – 09³⁰** **Opening Ceremony – Welcome Speeches of the Organizers**
Link: <https://zoom.us/j/91642300304?pwd=QmZNdHh2TUhCNUIYcnlLeU1OQ0NaQT09>
Meeting ID: 916 4230 0304 Passcode: opening1
- 09³⁰ – 10³⁰** **Break / SESAM 2021 On-line Sessions connection**
- 10³⁰ – 13⁰⁰** **Morning Parallel Sessions**
- Session 1**
 Link: <https://zoom.us/j/98165499266?pwd=d29tLzJqdIcyZTMrb1B0bjRTeVVEZz09>
 Meeting ID: 981 6549 9266 Passcode: session1M
- Session 2**
 Link: <https://zoom.us/j/92253160968?pwd=dnU4d0VWcUFkM2xPS2hXczcxUczUT09>
 Meeting ID: 922 5316 0968 Passcode: session2M
- Session 3**
 Link: <https://zoom.us/j/96399468407?pwd=bkplcmRCMXBuQjNodHRGWmNOMXVhdz09>
 Meeting ID: 963 9946 8407 Passcode: session3M
- Session 4**
 Link: <https://zoom.us/j/95237189363?pwd=TWtZQzVyN0ZSNVBURVZCa1gyVitOdz09>
 Meeting ID: 952 3718 9363 Passcode: session4M
- 13⁰⁰ – 14⁰⁰** **Lunch Break / SESAM 2021 On-line Sessions connection**
- 14⁰⁰ – 16¹⁵** **Afternoon Parallel Sessions**
- Session 1**
 Link: <https://zoom.us/j/99871712065?pwd=RFIBQ3J5cGM5bG1BSXYzdFNFDUcydz09>
 Meeting ID: 998 7171 2065 Passcode: session1A
- Session 2**
 Link: <https://zoom.us/j/91925517051?pwd=ZUpVVEVUcE9UVldFanVYZzVDhWYxZz09>
 Meeting ID: 919 2551 7051 Passcode: session2A
- Session 3**
 Link: <https://zoom.us/j/97299110063?pwd=NUxsd0MwMTBrdCtOUm14VmNtRVZpdz09>
 Meeting ID: 972 9911 0063 Passcode: session3A
- Session 4**
 Link: <https://zoom.us/j/93618229438?pwd=Y0dVU2k1Y2djcjFjNHpBcDRWSFhZZz09>
 Meeting ID: 936 1822 9438 Passcode: session4A

Important notes:

- A paper will be published online with open-access in MATEC Web of Conferences, **ONLY if it is presented** within the symposium.
- The official languages of the symposium are **English** and **Romanian**, simultaneous translation being not provided.
- Presenters must develop the slideshow presentations (PowerPoint) **only in English**.
- SESAM 2021 Opening Ceremony and Parallel Sessions **are recorded** by the organizers.

* Bucharest time

Morning Parallel Sessions

Morning Session 1, 10 ³⁰ – 13 ⁰⁰		
Zoom Meeting ID: 981 6549 9266 Passcode: session1M Access Link: https://zoom.us/j/98165499266?pwd=d29tLzJqdicyZTMrb1B0bjRTeVVEZz09		
*Participants must connect to the Meeting Room between 10 ⁰⁰ and 10 ³⁰		
Session Chairman: Professor Maria LAZĂR (University of Petroșani) Zoom Session Host: Eng. Gheorghe Daniel FLOREA		
1.	10 ³⁰ – 10 ⁴⁵	PAPER 1 IMPLICATIONS OF COAL DISAPPEARANCE FROM THE ENERGY MIX IN ROMANIA Authors: Izabela-Maria Apostu, Maria Lazar and Florin Faur
2.	10 ⁴⁵ – 11 ⁰⁰	PAPER 2 RESEARCH ON THE CONTINUATION OF MINING WORKS IN THE LICENSE PERIMETER OF THE PESTEANA NORD QUARRY Authors: Daniela Ionela Ciolea, Vasile Bobei, Tiberiu Rusu, Ioana Ionel and Tudor Andrei Rusu
3.	11 ⁰⁰ – 11 ¹⁵	PAPER 3 LIGHTING CONDITIONS AS THE OCCUPATIONAL HEALTH RELATED ISSUE – CASE STUDY Authors: Luiza Dębska and Anita Białek
4.	11 ¹⁵ – 11 ³⁰	PAPER 4 PRELIMINARY RESULTS OF INVESTIGATIONS RELATED TO THE ECOLOGY OF URDARI OPEN-PIT LAKE Authors: Florin Faur, Izabela-Maria Apostu and Maria Lazar
5.	11 ³⁰ – 11 ⁴⁵	PAPER 5 INVESTIGATING ATMOSPHERE'S ENVIRONMENTAL COMPONENTS AND WORK ENVIRONMENT OF A HOUSEHOLD LANDFILL'S PLATFORM Authors: Angelica-Nicoleta Gaman, Alexandru Simion, Marius Kovacs and Izabella Kovacs
6.	11 ⁴⁵ – 12 ⁰⁰	PAPER 6 GREEN METHODS THAT ARE USED TO ENSURE THE SUSTAINABLE DEVELOPMENT OF THE ENVIRONMENT AND THE SOCIETY Authors: Simona Gavrilas
7.	12 ⁰⁰ – 12 ¹⁵	PAPER 7 ASSESSMENT OF PRODUCTIVITY IN DIFFERENT THERMAL WORKING ENVIRONMENTS Authors: Natalia Krawczyk
8.	12 ¹⁵ – 12 ³⁰	PAPER 8 MEASUREMENTS OF PM10 PARTICLES MADE IN THE ROSIA OF JIU QUARRY AS A RESULT OF THE USE OF KOMATSU PC4000-11 HYDRAULIC EXCAVATOR Authors: Bogdan Ioan Marc, Alexandra (Soica) Stanimirescu and Angela Egri
9.	12 ³⁰ – 12 ⁴⁵	PAPER 9 PUBLIC TRANSPORT ANALYSIS IN THE PETROSANI BASIN IN THE CONTEXT OF THE NEED FOR SUSTAINABLE MOBILITY Authors: Sorin Mihailescu and Gabriel Praporgescu
10.	12 ⁴⁵ – 13 ⁰⁰	PAPER 10 AIR QUALITY ANALYSIS FOR A METROPOLITAN AREA IN ROMANIA DURING THE FIRST HALF OF 2021 Authors: Clementina Sabina Moldovan, Liana Simona Sbirna and Sebastian Sbirna
	13 ⁰⁰ – 14 ⁰⁰	Lunch Break

Morning Session 2, 10³⁰ – 13⁰⁰

Zoom Meeting ID: 922 5316 0968

Passcode: session2M

Access Link: <https://zoom.us/j/92253160968?pwd=dnU4d0VWcUFkM2xPS2hXczcxeUczUT09>

*Participants must connect to the Meeting Room between 10⁰⁰ and 10³⁰

Session Chairman: Dr. Eng. Emilian GHICIOI (INSEMEX Petroșani)

Zoom Session Host: Dr. Eng. Marius Cornel ȘUVAR

1.	10 ³⁰ – 10 ⁴⁵	<p>PAPER 1 EVALUATION OF EQUIPMENT USED IN EX ATMOSPHERES - INTERDISCIPLINARY FIELD Authors: Sorin Burian, Danut Grecea and Gabriela Pupazan</p>
2.	10 ⁴⁵ – 11 ⁰⁰	<p>PAPER 2 USING FPGA RECONFIGURABLE INTEGRATED CIRCUITS FOR MONITORING, CONTROLLING AND MANAGING INDUSTRIAL PROCESSES IN POTENTIALLY EXPLOSIVE ATMOSPHERES Authors: Cosmin Ioan Colda, Gheorghe Marc, Sorin Burian and Marius Darie</p>
3.	11 ⁰⁰ – 11 ¹⁵	<p>PAPER 3 ON THE ESTIMATION OF MAXIMUM SURFACE TEMPERATURE FOR CELLS Authors: Marius Darie, Tiberiu Csaszar, Adriana Andris and Ioana Ciobanu</p>
4.	11 ¹⁵ – 11 ³⁰	<p>PAPER 4 EXPLOSION PREVENTION AND MITIGATION IN PLANTS WHICH PROCESS, GENERATE AND STORE COMBUSTIBLE DUSTS Authors: Adrian Marius Jurca, Mihaela Paraian and Niculina Vatavu</p>
5.	11 ³⁰ – 11 ⁴⁵	<p>PAPER 5 CONSIDERATIONS REGARDING EX D IIB + H2 METHOD OF PROTECTION FOR FLAMEPROOF ELECTRICAL EQUIPMENT Authors: Mihai Magyari, Lucian Moldovan and Marcel Rad</p>
6.	11 ⁴⁵ – 12 ⁰⁰	<p>PAPER 6 SPECIFIC ASPECTS ON THE ADEQUATE SELECTION OF ELECTRIC EQUIPMENT INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES Authors: Lucian Moldovan, Mihai Magyari, Dragos Fotau and Clementina Sabina Moldovan</p>
7.	12 ⁰⁰ – 12 ¹⁵	<p>PAPER 7 MODULAR AUTOMATION CABINET FOR PROACTIVE MONITORING IN ATEX ZONE 2 Authors: Cristian Nechifor, Claudia Borzea, Adrian Stoicescu, Daniel Lale and Mirela Vasile</p>
8.	12 ¹⁵ – 12 ³⁰	<p>PAPER 8 APPLICATION OF FLAMMABILITY TESTING METHODS FOR CONVEYOR BELTS INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES IN ORDER TO SELECT SUITABLE TYPES FOR FIELD APPLICATION Authors: Florin Adrian Paun and Dan Gabor</p>
9.	12 ³⁰ – 12 ⁴⁵	<p>PAPER 9 PRESSURIZED HOUSINGS, STANDARDIZING POSSIBILITIES, OPPORTUNITIES AND DIFFICULTIES Authors: Gabriela Pupazan, Cosmin Colda, Tiberiu Csaszar, Adriana Andris and Danut Grecea</p>
10.	12 ⁴⁵ – 13 ⁰⁰	<p>PAPER 10 STUDY ON NITROGEN BARRIER PROTECTION OF AN AIREND OIL-FREE COMPRESSOR BEARINGS IN H2 COMPRESSION Authors: Iulian Vladuca, Emilia Georgiana Prisacariu, Cosmin Petru Suci, Cristian Dobromirescu and Razvan Edmond Nicoara</p>

13⁰⁰ – 14⁰⁰

Lunch Break

Morning Session 3, 10³⁰ – 13⁰⁰

Zoom Meeting ID: 963 9946 8407

Passcode: session3M

Access Link: <https://zoom.us/j/96399468407?pwd=bkplcmRCMXBuQjNodHRGWmNOMXVhdz09>

*Participants must connect to the Meeting Room between 10⁰⁰ and 10³⁰

Session Chairman: Professor Codruța DURA (University of Petroșani)

Zoom Session Host: Eng. Adrian Bogdan ȘIMON - MARINICĂ

1.	10 ³⁰ – 10 ⁴⁵	<p>PAPER 1 ANALYSIS OF THE USE OF TRANSFORMABLE ELEMENTS IN INTELLIGENT TUNNEL VENTILATION SYSTEMS Authors: Omar Lanchava, Nicolae Ilias, Sorin Mihai Radu, Giorgi Nozadze and David Tsanava</p>
2.	10 ⁴⁵ – 11 ⁰⁰	<p>PAPER 2 IMPLEMENTATION OF THE ROMANIAN MINING STRATEGY 2017-2035, WITH SPECIAL REGARD TO PIT COAL: FAILURE OR ABANDONMENT? Authors: Liliana Roman and Mircea Georgescu</p>
3.	11 ⁰⁰ – 11 ¹⁵	<p>PAPER 3 RESTRUCTURING OF COAL MINING IN ROMANIA BETWEEN THE CLIMATE CRISIS AND THE ENERGY TRANSITION Authors: Cristian Tomescu, Doru Cioclea, Cornel Boanta and Marius Morar</p>
4.	11 ¹⁵ – 11 ³⁰	<p>PAPER 4 SOCIAL IMPACT ASSESSMENT IN THE MINING INDUSTRY Authors: Ciprian Trocan, Marian Mocan, Ben-Oni Ardelean, Larisa Ivascu and Sergiu Sandru</p>
5.	11 ³⁰ – 11 ⁴⁵	<p>PAPER 5 MODELLING OF METHANE DISTRIBUTION PROCESS IN MINESHAFTS WITH REGARD TO IMPACT OF THERMAL DROPS OF VENTILATION PRESSURE Authors: Aleksandr Nikolaev, Petr Maksimov, Danil Konotop and Stefan Vöth</p>
6.	11 ⁴⁵ – 12 ⁰⁰	<p>PAPER 6 THEORETIC AND EXPERIMENTAL RESEARCH ON THE POSSIBILITIES FOR MODERNING AND REABILITATING THE EXTRACTION INSTALLATION OF THE SLANIC PRAHOVA SALT MINE Authors: Daniel Cosmin Vitan, Daniel Ion Matei, Ionela Cristina Lapadus (Macesaru) and Ionela (Dajic) Grecea</p>
7.	12 ⁰⁰ – 12 ¹⁵	<p>PAPER 7 METHANE EMISSIONS FROM THE MINES BELONGING TO THE HUNEDOARA ENERGY COMPLEX Authors: Emeric Chiuzan, Razvan Dragoescu, Nicolae Ianc, Adrian Matei and Alexandru Camarasescu</p>
8.	12 ¹⁵ – 12 ³⁰	<p>PAPER 8 INFLUENCE OF AMBIENT TEMPERATURE ON THE EFFICIENCY OF UNDERGROUND SPOT COOLING SYSTEM Authors: Ion Dosa, Sorina Anutoiu, Dan Codrut Petrilean and Gheorghe Urdea</p>
9.	12 ³⁰ – 12 ⁴⁵	<p>PAPER 9 SPEED DISTRIBUTION IN THE EXHAUST DIFFUSER OF THE AIR FAN Authors: Ion Gherghe, Doru Cioclea, Florin Radoi, Emeric Chiuzan and Razvan Dragoescu</p>
10.	12 ⁴⁵ – 13 ⁰⁰	<p>PAPER 10 CLASSIFICATION OF UNDERGROUND MINING WORKS WITHIN THE TG. OCNA SALT MINE FROM THE POINT OF VIEW OF GAS EMISSIONS Authors: Adrian Matei and Nicolae Ianc</p>

13⁰⁰ – 14⁰⁰

Lunch Break

Morning Session 4, 10³⁰ – 13⁰⁰

Zoom Meeting ID: 952 3718 9363

Passcode: session4M

Access Link: <https://zoom.us/j/95237189363?pwd=TWtZQzVyN0ZSNVBURVZCa1gyVitOdz09>

*Participants must connect to the Meeting Room between 10⁰⁰ and 10³⁰

Session Chairman: Professor Roland Iosf MORARU (University of Petroșani)

Zoom Session Host: Eng. Laurențiu MUNTEANU

1.	10 ³⁰ – 10 ⁴⁵	<p>PAPER 1 OCCUPATIONAL SAFETY ISSUES RELATED TO COMPUTER EQUIPMENT INSTALLATION, MAINTENANCE AND USE Authors: Daniel Onut Badea, Doru Costin Darabont, Dominic Bucerzan, Alina Trifu, Eduard Smidu, Eugenia Bulboaca and Vergilica Haralambie</p>
2.	10 ⁴⁵ – 11 ⁰⁰	<p>PAPER 2 QUANTITATIVE RISK ASSESSMENT AND SAFETY DATABASES IN ROMANIAN COAL MINING: PRELIMINARY SYSTEMATIC APPROACH Authors: Victor-Gabriel Vasilescu, Roland Iosif Moraru and Gabriel Bujor Babut</p>
3.	11 ⁰⁰ – 11 ¹⁵	<p>PAPER 3 PREVENTION ACTIVITIES IN SHIP LOADING AND UNLOADING OPERATIONS Authors: Daniel Nicu Fraitag, Mihai Popescu-Stelea, Roland Iosif Moraru and Gabriel Bujor Babut</p>
4.	11 ¹⁵ – 11 ³⁰	<p>PAPER 4 OCCUPATIONAL RISK MANAGEMENT OF EQUIPMENT INTENDED FOR CHARGING ELECTRIC VEHICLES Authors: Georgeta Buica, Anca Elena Antonov, Constantin Beiu, Dragos Pasculescu and Remus Dobra</p>
5.	11 ³⁰ – 11 ⁴⁵	<p>PAPER 5 PRINCIPLES FOR DESIGNING A COMPUTER APPLICATION SPECIFIC TO EXPLOSION RISK MANAGEMENT IN EXPLOSIVE DEPOSITS Authors: Florin Ionel Burdea and Monica Crinela Burdea</p>
6.	11 ⁴⁵ – 12 ⁰⁰	<p>PAPER 6 ASSESSMENT OF EXPLOSION RISK FOR WOOD DUST IN A VENTILATION-DUST SEPARATION INSTALLATION, BY DETERMINING THE CONCENTRATION OF TOTAL DUST IN SUSPENSION INSIDE OF THE INSTALLATION Authors: Marius Kovacs, Lorand Toth and Sorin Simion</p>
7.	12 ⁰⁰ – 12 ¹⁵	<p>PAPER 7 STRESS AND PSYCHOLOGICAL RESILIENCE IN INTERVENTION AND RESCUE ACTIVITIES Authors: Izabella Kovacs, Andrei-Lucian Gireada, Lorand Toth and Sorin Simion</p>
8.	12 ¹⁵ – 12 ³⁰	<p>PAPER 8 RESIDENTIAL SECURITY THROUGH THE HOME ASSISTANT PLATFORM Authors: Laurentiu Munteanu, Marius Cornel Suvar and Gheorghe Daniel Florea</p>
9.	12 ³⁰ – 12 ⁴⁵	<p>PAPER 9 DISCHARGE AND ATMOSPHERIC DISPERSION MODELLING IN CASE OF HAZARDOUS MATERIAL RELEASES Authors: Vlad Mihai Pasculescu, Emilian Ghicioi, Ligia Ioana Tuhut, Adrian Bogdan Simon-Marinica and Dragos Pasculescu</p>
10.	12 ⁴⁵ – 13 ⁰⁰	<p>PAPER 10 ASPECTS REGARDING THE EXPLOSION RISK ASSESSMENT OF INSTALLATIONS IN ATMOSPHERES WITH COMBUSTIBLE DUST Authors: Catalin Mihai Popa, Florin Adrian Paun and Dan Sorin Gabor</p>

13⁰⁰ – 14⁰⁰

Lunch Break

Afternoon Parallel Sessions

Afternoon Session 1, 14 ⁰⁰ – 16 ¹⁵		
Zoom Meeting ID: 998 7171 2065 Passcode: session1A Access Link: https://zoom.us/j/99871712065?pwd=RFIBQ3J5cGM5bG1BSXYzdFNFdUcydz09		
*Participants must connect to the Meeting Room between 13 ⁰⁰ and 14 ⁰⁰		
Session Chairman: Dr. Eng. Mihaela PĂRĂIAN (INSEMEX Petroșani) Zoom Session Host: Eng. Gheorghe Daniel FLOREA		
1.	14 ⁰⁰ – 14 ¹⁵	PAPER 1 THEORETICAL AND EXPERIMENTAL ANALYSIS ON ENVIRONMENTAL POLLUTION WITH EXHAUST GASES AT THE MECHANICAL DISLOCATION OF ROCKS, LOCATED IN A PROTECTED NATURE ENVIRONMENT Authors: Marin Silviu Nan, Daniel Cosmin Vitan, Sorina Daniela Anotoiu and Cristian Aron
2.	14 ¹⁵ – 14 ³⁰	PAPER 2 RESEARCH ON POSSIBILITIES FOR MONITORING STABILITY OF ADJACENT SLOPES TO TRANSPORT ROUTES Authors: Aurelian Nicola, Marin Silviu Nan, Adrian Schiopu, Ionela Grecea and Daniel Matei
3.	14 ³⁰ – 14 ⁴⁵	PAPER 3 Industrial area environmental monitoring based on transducers with MODBUS communication Authors: Nicolae Patrascoiu and Cosmin Rus
4.	14 ⁴⁵ – 15 ⁰⁰	PAPER 4 AGRO-TOURISM STRUCTURES, SARS-COV-2: THE ROLE OF WATER Authors: Marco Schiavon, Ramona Giurea, Gabriela Ionescu, Elena Magaril and Elena Cristina Rada
5.	15 ⁰⁰ – 15 ¹⁵	PAPER 5 ENVIRONMENTAL AND ECOTOXICOLOGICAL RISK ASSESSMENT OF POLLUTION WITH LIGHT CRUDE OIL FOR AN OIL EXPLOITATION FIELD Authors: Alexandru Florin Simion, Angelica Nicoleta Gaman, George Artur Gaman, Ionut Dragoi and Catalina Ghita
6.	15 ¹⁵ – 15 ³⁰	PAPER 6 RESEARCH ON THE NEGATIVE EFFECTS OF THE "VALEA ARSULUI" TAILINGS DUMPS ON THE ENVIRONMENT Authors: Alexandra (Soica) Stanimirescu, Angela Egri, Florin Flavius Soica and Mirela Ancuta Radu
7.	15 ³⁰ – 15 ⁴⁵	PAPER 7 ASPECTS OF ENERGY EFFICIENCY IN MODERN ELECTRICAL INSTALLATIONS Authors: Maria Daniela Stochitoiu and Ilie Utu
8.	15 ⁴⁵ – 16 ⁰⁰	PAPER 8 DETERMINATION OF THE RADON CONCENTRATION IN HOMES DEPENDING ON THE INSULATION USED FOR THE FLOOR Authors: Andreea Cristina Tataru, Dorin Tataru and Aurora Stanci
9.	16 ⁰⁰ – 16 ¹⁵	PAPER 9 A REVIEW OF THE IMPACT OF MINING OPERATIONS ON SUSTAINABLE DEVELOPMENT Authors: Ciprian Trocan, Marian Mocan, Lucian-Ionel Cioca, Larisa Ivascu and Rebeca Ardelean

Afternoon Session 2, 14⁰⁰ – 16¹⁵

Zoom Meeting ID: 919 2551 7051

Passcode: session2A

Access Link: <https://zoom.us/j/91925517051?pwd=ZUpVVEVUcE9UUVldFanVYZzVDbWYxZz09>

*Participants must connect to the Meeting Room between 13⁰⁰ and 14⁰⁰

Session Chairman: Dr. Eng. Constantin Sorin BURIAN (INSEMEX Petroșani)

Zoom Session Host: Dr. Eng. Marius Cornel ȘUVAR

1.	14 ⁰⁰ – 14 ¹⁵	<p>PAPER 1 CONSIDERATIONS REGARDING TEST METHODS AGAINST DUST AND WATER INGRESS PROTECTION FOR EX EQUIPMENT Authors: Niculina Vatavu, Mihaela Paraian, Sorin Vatavu and Mihai Popa</p>
2.	14 ¹⁵ – 14 ³⁰	<p>PAPER 2 CONSIDERATIONS REGARDING THE CHOICE OF CABLE GLANDS FOR ELECTRICAL EQUIPMENT USED IN POTENTIALLY EXPLOSIVE ATMOSPHERES Authors: Marcel Daniel Rad, Dragos Fotau, Diana Salasan and Sorin Zsido</p>
3.	14 ³⁰ – 14 ⁴⁵	<p>PAPER 3 COMPUTERIZED SIMULATIONS IN THE VULCAN MINE VENTILATION NETWORK Authors: Corneliu Boanta and Cristian Tomescu</p>
4.	14 ⁴⁵ – 15 ⁰⁰	<p>PAPER 4 CAREER ORIENTATION, DEVELOPMENT AND EVOLUTION BASED ON PERSONAL SKILLS AND APTITUDES Authors: Bianca Alina Buta</p>
5.	15 ⁰⁰ – 15 ¹⁵	<p>PAPER 5 APPLYING THE PRISMA METHOD FOR OBTAINING SYSTEMATIC REVIEWS OF OCCUPATIONAL SAFETY ISSUES IN LITERATURE SEARCH Authors: Alina Trifu, Eduard Smidu, Daniel Onut Badea, Eugenia Bulboaca and Vergilica Haralambie</p>
6.	15 ¹⁵ – 15 ³⁰	<p>PAPER 6 RESEARCH ON LABOR CONSUMPTION AND RESCUERS' PHYSIOLOGICAL PARAMETERS PROGRESS IN THE CASE OF PRACTICAL TRAINING IN A MOBILE TRAINING FACILITY Authors: Cristian Nicolescu, George Artur Gaman, Daniel Pupazan and Cosmin Ilie</p>
7.	15 ³⁰ – 15 ⁴⁵	<p>PAPER 7 RESEARCH ON RESCUERS' TRAINING PROCESS IN TOXIC / EXPLOSIVE / FLAMMABLE ENVIRONMENTS Authors: Andrei-Lucian Gireada, Cosmin Ilie and Alin Irimia</p>
8.	15 ⁴⁵ – 16 ⁰⁰	<p>PAPER 8 RESEARCH ON THE USE OF VIRTUAL REALITY IN INTERVENTION AND RESCUE ACTIVITIES Authors: Alin Irimia, Emilian Ghicioi, Daniel Pupazan and Cristian Nicolescu</p>
9.	16 ⁰⁰ – 16 ¹⁵	<p>PAPER 9 THE ROLE OF NUMERICAL MODELING IN SCIENTIFIC FIRE INVESTIGATION Authors: Marius Cornel Suvar, Laurentiu Munteanu and Zoltan Vass</p>

Afternoon Session 3, 14⁰⁰ – 16¹⁵

Zoom Meeting ID: 972 9911 0063

Passcode: session3A

Access Link: <https://zoom.us/j/97299110063?pwd=NUxsd0MwMTBrdCtOUm14VmNtRVZpdz09>

*Participants must connect to the Meeting Room between 13⁰⁰ and 14⁰⁰

Session Chairman: Eng. Robert LASZLO (INSEMEX Petroșani)

Zoom Session Host: Eng. Adrian Bogdan ȘIMON - MARINICĂ

1.	14 ⁰⁰ – 14 ¹⁵	<p>PAPER 1 BACKGROUND-ORIENTED SCHLIEREN TECHNIQUE IN EXPERIMENTAL RESEARCH REGARDING THE EFFECT OF EXPLOSION PRESSURE Authors: Adrian Bogdan Simon-Marinica, Emilian Ghicioi, Nicolae-Ioan Vlasin, Florin Manea and Dorin Popescu</p>
2.	14 ¹⁵ – 14 ³⁰	<p>PAPER 2 EXPERIMENTAL POSSIBILITIES FOR INDUSTRIAL VENTILATION Authors: Florin Radoi, Ion Gherghe and Alexandru Camarasescu</p>
3.	14 ³⁰ – 14 ⁴⁵	<p>PAPER 3 BEST PRACTICES IN THE FIELD OF SPECIFIC RISK EVALUATION OF PYROTECHNIC ENTERTAINMENT ARTICLES SUBJECT TO LEGAL AND ILLEGAL MARKET SURVEILLANCE Authors: Bogdan Garaliu-Busoi, Daniela Carmen Rus, Claudia Miron, Olga Miclea and Dan Pintilie</p>
4.	14 ⁴⁵ – 15 ⁰⁰	<p>PAPER 4 CONSTRUCTION AND SAFETY ASPECTS FOR THE ARRANGEMENT OF MOBILE EXPLOSIVE DEPOSITS Authors: Robert Laszlo, Stefan Ilici, Aurelian Nicola, Stefan Usurelu and Ionut Zamblau</p>
5.	15 ⁰⁰ – 15 ¹⁵	<p>PAPER 5 GENERALIZED GRAPHIC-ANALYTICAL MODEL FOR EVALUATION OF THE FATALITY / STRUCTURAL COLLAPSE PRODUCTION MECHANISM ON A BUILDING AFFECTED BY AN EXPLOSION Authors: Gabriel Vasilescu, Attila Kovacs, Ciprian Jitea, Doru Anghelache and Florian Stoian</p>
6.	15 ¹⁵ – 15 ³⁰	<p>PAPER 6 TECHNICAL – ORGANIZATIONAL MEASURES FOR CLASSIFYING PYROTECHNIC ARTICLES Authors: Cristian Raul Cioara, Marius Simion Morar and Andrada Denisa Babut</p>
7.	15 ³⁰ – 15 ⁴⁵	<p>PAPER 7 DETERMINATION OF NON-HAZARDOUS AREAS IN TERMS OF SEISMIC EFFECT FOR THE USE OF EXPLOSIVES IN THE OPEN PIT IN SAFE CONDITIONS Authors: Edward Gheorghiosu, Daniela Rus, Stefan Ilici and Sorin Mihai</p>
8.	15 ⁴⁵ – 16 ⁰⁰	<p>PAPER 8 TECHNICAL SOLUTIONS FOR THE EVALUATION OF THE EFFECT OF EXPLOSION PRESSURE WHEN DETONING VARIOUS EXPLOSIVE LOADS IN VIEW OF INCREASING THE DEGREE OF SOCIETAL SECURITY Authors: Ilie-Ciprian Jitea, Robert Laszlo, Olga Miclea, Anton Darsy and Claudiu Popescu</p>
9.	16 ⁰⁰ – 16 ¹⁵	<p>PAPER 9 EVALUATION OF THE MECHANICAL RESISTANCE OF RHEOPHORES OF THE MEANS OF INITIATION FOR EXPLOSIVE'S MATERIALS, ON THE BASIS OF THE RESISTANCE TO ABRASION DETERMINED WITH THE OPVA 10 SPECIALIZED EQUIPMENT Authors: Cristian Radeanu, Gabriel Vasilescu, Claudia Miron, Florin Vedinas and Ladislau Radermacher</p>

Afternoon Session 4, 14⁰⁰ – 16¹⁵

Zoom Meeting ID: 936 1822 9438

Passcode: session4A

Access Link: <https://zoom.us/j/93618229438?pwd=Y0dVU2k1Y2djcfFjNHpBcDRWSFhZZz09>

*Participants must connect to the Meeting Room between 13⁰⁰ and 14⁰⁰

Session Chairman: Dr. Eng Vlad Mihai PĂSCULESCU

Zoom Session Host: Eng. Laurențiu MUNTEANU

1.	14 ⁰⁰ – 14 ¹⁵	<p>PAPER 1</p> <p>THE ADVANTAGE OF MODERN PROGRESS ON OCCUPATIONAL SAFETY AND HEALTH WITH THE HELP OF ONLINE APPLICATIONS/PLATFORMS</p> <p>Authors: Andrada Denisa Babut, Cristian Raul Cioara and Daniel Florea</p>
2.	14 ¹⁵ – 14 ³⁰	<p>PAPER 2</p> <p>SELF-IGNITION TEMPERATURE OF THE DUST ACCUMULATIONS FOR SUNFLOWER AND WOOD POWDERS</p> <p>Authors: Maria Prodan, Andrei Szolosi-Mota, Vasilica Irina Nalboc, Niculina Sonia Suvar and Adrian Jurca</p>
3.	14 ³⁰ – 14 ⁴⁵	<p>PAPER 3</p> <p>PERCEIVED RISK FACTORS IN THE PROCESS OF CLOSURE AND GREENING OF THE LUPENI MINING OPERATION FOR THE MINER WORKPLACE</p> <p>Authors: Manuel Cristian Savulescu, Andreea Cristina Tataru, Aurora Stanci, Dorin Tataru and Sorin Mihai Radu</p>
4.	14 ⁴⁵ – 15 ⁰⁰	<p>PAPER 4</p> <p>DETERMINATION OF FLAMMABILITY PARAMETERS FOR ORGANIC WASTE RESULTING FROM THE PROCESSING OF SUNFLOWER SEEDS</p> <p>Authors: Andrei Szollosi-Mota, Maria Prodan, Vasilica Irina Nalboc and Niculina Sonia Suvar</p>
5.	15 ⁰⁰ – 15 ¹⁵	<p>PAPER 5</p> <p>A CASE STUDY ON USING THE FDS TOOL FOR ON-SITE FIRE INVESTIGATION</p> <p>Authors: Ligia Ioana Tuhut, Vlad Mihai Pasculescu, Nicolae Ioan Vlasin and Florin Manea</p>
6.	15 ¹⁵ – 15 ³⁰	<p>PAPER 6</p> <p>DIGITAL HUMAN FACTOR MANAGEMENT</p> <p>Authors: Yuriy Ivanov, Alexey Voroshilov, Nikolay Novikov and Konstantin Todradze</p>
7.	15 ³⁰ – 15 ⁴⁵	<p>PAPER 7</p> <p>A NEW PERSPECTIVE ON MUSCULOSKELETAL DISORDERS – EMERGING ERGONOMIC RISKS IN THE EUROPEAN UNION AND ROMANIA</p> <p>Authors: Maria Elena Boatca, Alexandra Coroian and Anca Draghici</p>
8.	15 ⁴⁵ – 16 ⁰⁰	<p>PAPER 8</p> <p>INVESTIGATING THE RELATIONSHIP BETWEEN JOB SATISFACTION, COMMUNICATION STYLE, EMPLOYEE BEHAVIOR IN CONFLICT SITUATIONS</p> <p>Authors: Gabriela Caldarescu, Laura Florea, Nicoleta Monica Lohan and Mihai-Adrian Bernevig</p>
9.	16 ⁰⁰ – 16 ¹⁵	<p>PAPER 9</p> <p>THE ROLE OF COGNITIVE FUNCTIONS IN THE DYNAMICS OF WORK ACCIDENTS</p> <p>Authors: Daniel George Tanasievici, Gabriela Caldarescu, Constantin Baciu and Elena Matcovschi</p>