

„HENRI COANDĂ”

AIR FORCE ACADEMY



„GENERAL M. R. STEFANIK”

ARMED FORCES ACADEMY



ASOCIAȚIA
UVS ROMÂNIA
UNMANNED VEHICLE SYSTEMS

“Henri Coandă”

ASSOCIATION FOR RESEARCH AND EDUCATION



CONFERENCE GUIDE

AFASES 2016

THE 18-th INTERNATIONAL CONFERENCE

26 - 28 May, 2016

Brasov-ROMANIA



Conference Agenda

THURSDAY, May 26th, 2016

| | |
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| 16 ⁰⁰ - 19 ⁰⁰ | Arrival of foreign delegation |
| 19 ⁰⁰ - 21 ⁰⁰ | Ice Breaker Evening |

FRIDAY, May 27th, 2016

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|-------------------------------------|--|
| 08 ⁰⁰ – 08 ³⁰ | Welcoming and registration |
| 08 ³⁰ – 11 ⁰⁰ | Opening of the session - Opening Speeches, Keynote speakers presentations - Organizational specification |
| 11 ⁰⁰ – 11 ¹⁵ | Photo Session |
| 11 ¹⁵ - 12 ⁰⁰ | Static Exhibition of Air Defense Systems |
| 12 ⁰⁰ – 15 ⁰⁰ | Paper presentation on sections (I) |
| 15 ⁰⁰ - 16 ⁰⁰ | Lunch |
| 16 ⁰⁰ - 19 ⁰⁰ | Paper presentation on sections (II) |
| 20 ⁰⁰ - 24 ⁰⁰ | Official Dinner |

Saturday May 28th, 2016

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|------------------------------------|--|
| 9 ⁰⁰ - 14 ⁰⁰ | Sightseeing activities. Visit to Bran Castle |
| 14 ⁰⁰ | Departure of foreign participants |



The Session Sections

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| Materials and Technology | | |
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| 4. MANAGEMENT AND SOCIO-HUMANITIES | | |
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Institute of Mathematical Statistics and Applied Mathematics
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Romanian Research & Development Institute for Gas Turbine
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Associate Professor Eng. **Doru LUCULESCU**, PhD
“Henri Coandă” Air Force Academy, Romania



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WO Sergiu OBREJA
Eng. Mariana GHINDĂOANU
Eng. Daniela OBREJA
Inf. Adina DOBRIȚOIU



PLENARY SESSION

AUDITORIUM

Message of Air Flotilla General Vasile BUCINSCHI, PhD

Rector of “Henri Coandă” Air Force Academy, Romania

Message of Brigadier General Plamen Nikolov BOGDANOV

Rector of Vasil Levski National Military University, Bulgaria

Message of Marcel HARAKAL, PhD

Deputy Commandant for Scientific Research, Armed Forces Academy in Liptovsky Mikulas, Slovakia

Presentation of Brigadier General Dan CAVALERU

Deputy Chief of Romanian Air Force

Presentation of Milan SOPÓCI, PhD

Armed Forces Academy in Liptovsky Mikulas, Slovakia

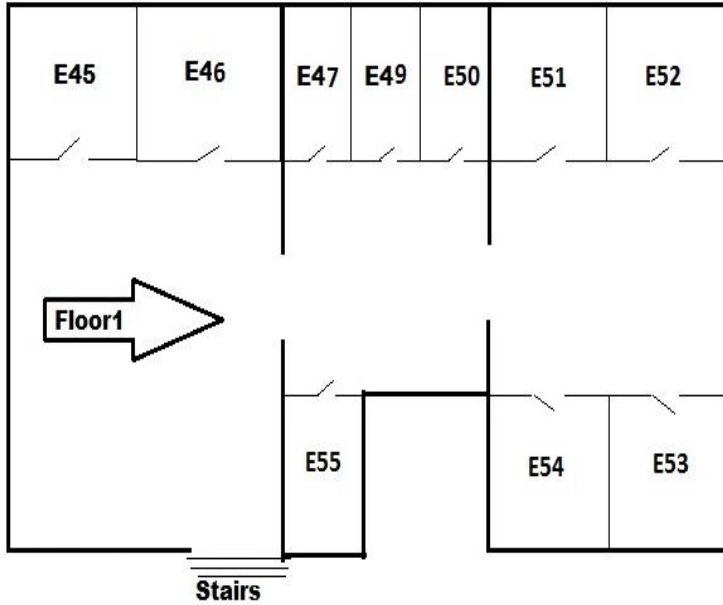
Presentation of Lt .Col. Laurian GHERMAN, PhD

Deputy Commandant for Scientific Research, “Henri Coanda” Air Force Academy, Romania

AWARDING CEREMONY

1. AIR FORCE AND AEROSPACE ENGINEERING

Conference ROOM E53



1. AIR FORCE AND AEROSPACE ENGINEERING

Conference ROOM E53

Moderators:

Milan SOPÓCI, PhD

Armed Forces Academy of General M. R. Štefánik
in Liptovský Mikuláš

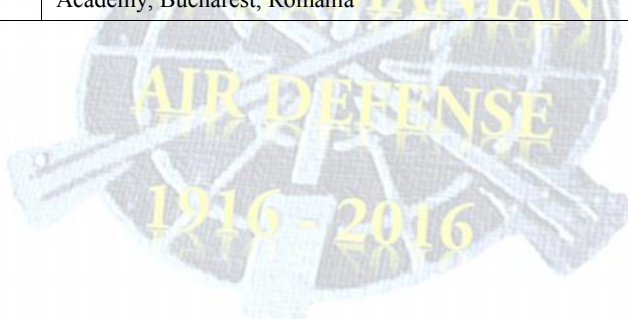
Constantin ROTARU, PhD

„Henri Coandă” Air Force Academy, Brasov

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|----|-------|--|
| 1. | 12.00 | <i>THE AIRPORT TRACING & HANDLING IN THE NEAR FUTURE</i> Slawomir AUGUSTYN* , Hanna TURZYŃSKA** *National Defence University Warsaw, Poland, **Aviation & Air Defence Institute, Poland |
| 2. | 12.15 | <i>THE CONCEPT OF CAPABILITY DEVELOPMENT COMMAND, CONTROL AND RECONNAISSANCE OF AIR FORCE</i> Milan SOPÓCI* , Marek WALANCIK** * Armed Forces Academy of General M. R. Štefánik in Liptovský Mikuláš, ** Academy of Business in Dabrowa Górnicza |
| 3. | 12.30 | <i>TURBOSHAFT-TYPE APU FOR AIRCRAFT AS CONTROLLED OBJECT</i> Alexandru-Nicolae TUDOSIE* *University of Craiova, Craiova, Romania |
| 4. | 12.45 | <i>GROUND TEST FACILITY FOR A TURBOSHAFT-TYPE APU TG-16M FOR PASSENGER AIRCRAFT</i> Alexandru-Nicolae TUDOSIE* *University of Craiova, Craiova, Romania |
| 5. | 13.00 | <i>THUNDERSTORM OCCURENCE AND ASSOCIATED FLIGHT HAZARDS IN THE SOUTHERN PART OF ROMANIA</i> Carmen STEFAN* *Romanian Aviation Academy, Bucharest, Romania |

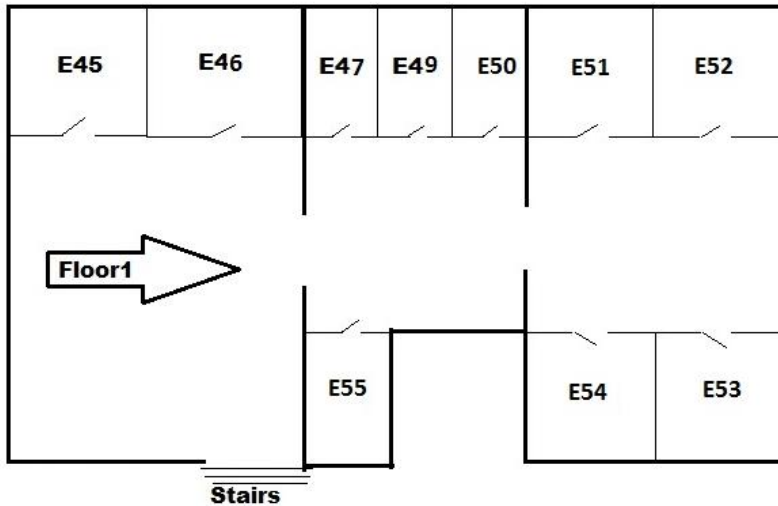
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| 6. | 13.15 | <p><i>STUDY ON THE ELECTROMAGNETIC INTERFERENCE OF THE MICROSTRIP-FED PATCH ANTENNA OF AN AIRCRAFT RADAR ALTIMETER</i></p> <p>Nicușor-Nicolae DRUȚĂ*, Daniel ZVÎNCU*, Mădălina Nela DASCĂLU**</p> <p>*Military Technical Academy, Bucharest, Romania, ** “Dunărea de Jos” University of Galați, Romania</p> |
| 7. | 13.30 | <p><i>EMULSION EXPLOSIVES DETONATION VELOCITY DETERMINATIONS USING TIME DETECTORS</i></p> <p>Neculai-Daniel ZVÎNCU*, Nicușor-Nicolae DRUȚA*, Lavinia Valentina BOCEA**</p> <p>* Military Technical Academy, Bucharest, Romania, ** Craiova University of Medicine and Pharmacy, Romania</p> |
| 8. | 13.45 | <p><i>AN ADVANCED NEURAL NETWORK-BASED APPROACH FOR MILITARY GROUND VEHICLE RECOGNITION IN SAR AERIAL IMAGERY</i></p> <p>Victor-Emil NEAGOE*, Serban-Vasile CARATA*, Adrian-Dumitru CIOTEC*</p> <p>* ”Politehnica” University of Bucharest, Romania,</p> |
| 9. | 14.00 | <p><i>SOME SIMILARITIES BETWEEN F-16 PROGRAM IN POLAND AND ROMANIA</i></p> <p>Diana CHIȘ-MANOLACHE*, Ciprian CHIȘ**</p> <p>*General Military Headquarter, Bucharest, Romania, ** Medical Directorate of Ministry of National Defence, Bucharest, Romania</p> |
| 10. | 14.15 | <p><i>MOTIVATION AND LEADERSHIP- SPECIFIC AREAS OF THE MILITARY ORGANIZATION IN THE SPIRIT OF ORGANIZATIONAL CULTURE</i></p> <p>Mihai VIȚALARIU*, Ovidiu MOȘOIU*</p> <p>* ”Henri Coandă” Air Force Academy, Brașov, Romania</p> |
| 11. | 14.30 | <p><i>FLIGHT SAFETY INTRODUCTION FOR STUDENT PILOTS</i></p> <p>Oliver CIUICĂ*, Eduard MIHAI*</p> <p>**”Henri Coandă” Air Force Academy, Brașov, Romania</p> |
| 12. | 14.45 | <p><i>SIMPLIFIED MATHEMATICAL MODEL FOR AIRCRAFTS RESPONSE CHARACTERISTICS</i></p> <p>Constantin ROTARU*, Oliver CIUICĂ*, Eduard MIHAI*, Ionică CÎRCIU*, Radu DINCĂ*</p> <p>* ”Henri Coandă” Air Force Academy, Brașov, Romania</p> |

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| 13. | 16.00 | <p><i>A QUICK LOOK OVER THE ROMANIAN GROUND BASED AIR DEFENCE</i> Marius RĂDULESCU*, Vasile ŞANDRU** *Electromecanica State Own Company, Ploieşti, Romania, **"Henri Coandă" Air Force Academy, Braşov, Romania</p> |
| 14. | 16.15 | <p><i>MODERN TECHNOLOGIES FOR THE REALIZATION OF THE PUMA HELICOPTER BLADE</i> Ion DINESCU* * "Henri Coandă" Air Force Academy, Brasov, Romania</p> |
| 15. | 16.30 | <p><i>PROTECH „IN-HOUSE” SOFTWARE AN ALTERNATIVE FOR PROJECTILE’S DRAG COEFFICIENT EVALUATION IN CASE OF SMALL TOLERANCES OF ITS GEOMETRICAL DIMENSIONS</i> George SURDU*, Cristian MOLDOVEANU**, Şomoiaş PAMFIL** *Research Center for Navy, Constanţa, Romania, ** Military Technical Academy, Bucharest, Romania</p> |



2. REMOTELY PILOTED AIRCRAFT SYSTEMS / LAW AND POLICIES

Conference ROOM E46



2. REMOTELY PILOTED AIRCRAFT SYSTEMS / LAW AND POLICIES

Conference ROOM E46

Moderators:

Róbert SZABOLCSI, PhD

Óbuda University, Budapest, Hungary

Vasile PRISACARIU, PhD

„Henri Coandă” Air Force Academy, Brasov

INVITED PAPERS

| | |
|-------|---|
| 12.00 | <i>Enterprise UAV contribute to increasing productivity, cutting costs and even saving lives.</i> Cristian MATEESCU* , Ion MAGDALENA* * TEAMNET Romania |
| 12.15 | <i>Insurance for Unmanned Vehicle Systems - mix of technology and innovation,</i> Doru-Eugen OBREJA* *CertAsig București, Romania |
| 12.30 | <i>Institute of Training, Research and Study for Unmanned Vehicle Systems - ITSC-SVFP, presentation and perspectives</i> Octavian ISĂILĂ* *ITSC-SVFP Mediaș, Romania |
| 1. | 12.45 <i>SYNTHESIS AND STUDY OF THE MATHEMATICAL MODEL OF A TRICOPTER</i> Martin KAMBUSHEV* , Stefan BILIDEROV* , Yavor VARBANOV* * Faculty “Aviation”, Dolna Mitropolia, Bulgaria |

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| 2. | 13.00 | <p><i>STUDY OF THE TURBOJET ENGINES AS PROPULSION SYSTEMS FOR THE UNMANNED AERIAL VEHICLES</i> Irina-Carmen ANDREI*, Mihai Leonida NICULESCU*, Mihai Victor PRICOP*, Andreea CERNAT* *National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania</p> |
| 3. | 13.15 | <p><i>UAV OPERATOR TRAINING – BEYOND MINIMUM STANDARDS</i> Róbert SZABOLCSI* *Óbuda University, Budapest, Hungary</p> |
| 4. | 13.30 | <p><i>COMPARATIVE STUDY BETWEEN GLOBAL POSITIONING SYSTEMS USED ON REMOTELY PILOTED AIRCRAFT SYSTEMS</i> Attila Laszlo BOER*, Marius Cristian LUCULESCU*, Luciana CRISTEA*, Sorin Constantin ZAMFIRA*, Ion BARBU* **“Transilvania” University of Braşov, Romania</p> |
| 5. | 13.45 | <p><i>UNMANNED AERIAL SYSTEM (UAS) IN THE CONTEXT OF MODERN WARFARE</i> Vasile PRISACARIU*, Adrian MURARU** **“Henri Coandă” Air Force Academy, Braşov, Romania, ***“Transilvania” University of Braşov, Romania</p> |
| 6. | 14.00 | <p><i>AN H_{∞} DESIGN METHOD FOR THE PITCH ATTITUDE HOLD AUTOPILOT OF A FLYING UAV</i> Adrian-Mihail STOICA*, Petrisor-Valentin PARVU*, Costin ENE* *“Politehnica” University of Bucharest, Romania</p> |
| 7. | 14.15 | <p><i>CONCEPTUAL DESIGN OF A VTOL REMOTELY PILOTED AIRCRAFT FOR EMERGENCY MISSIONS</i> Razvan UDROIU*, Madalina Ioana BLAJ* **“Transilvania” University of Brasov, Romania</p> |
| 8. | 14.30 | <p><i>UNMANNED AERIAL VEHICLE IN MILITARY OPERATIONS</i> Gheorghe UDEANU*, Alexandra DOBRESCU*, Mihaela OLTEAN* **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania</p> |

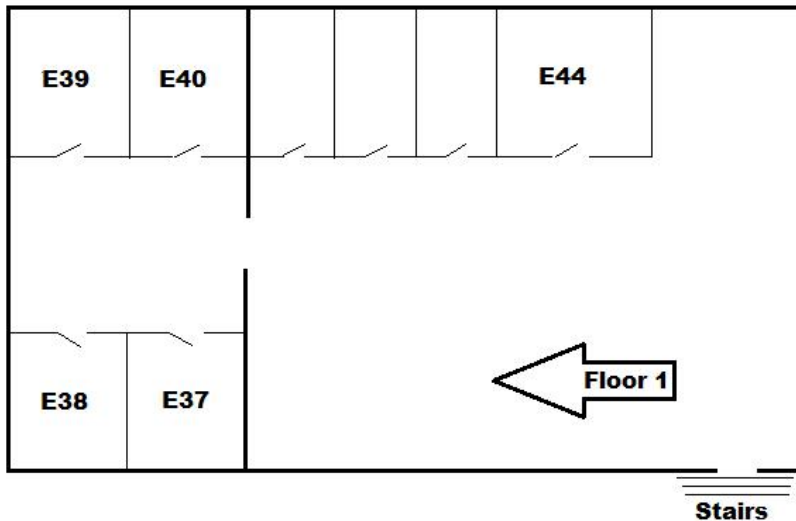
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| 9. | 14.45 | <i>LATERAL GUIDANCE LAWS FOR AUTONOMOUS TRACKING FLIGHT PATHS</i> Cristian VIDAN* *Military Technical Academy, Bucharest, Romania |
| 10. | 16.00 | <i>CFD ANALYSIS FOR UAV OF FLYING WING TYPE</i> *Dumitru PEPELEA, *Marius Gabriel COJOCARU, *Adrian TOADER, *Mihai Leonida NICULESCU *National Aerospace Research, Bucharest, Romania, |
| 11. | 16.15 | <i>LEACH IN MULTI-AGENT HYBRID ROBOT ARCHITECTURES</i> Andrei-Mihai LUCHIAN*, Cristian-George CONSTANTINESCU** **"Transilvania" University of Braşov, România, **Air Force Academy "Henri Coandă", Braşov, România |
| 12. | 16.30 | <i>RISK PLANNING IN AVIATION SCIENTIFIC RESEARCH PROJECTS</i> Catalin CIOACA*, Sebastian POP** **"Henri Coandă" Air Force Academy, Braşov, Romania, **"Transilvania" University of Braşov, Romania |
| 13. | 16.45 | <i>THEORETICAL CONSIDERATIONS ON POSSIBLE INSURANCE OF DRONES AGAINST DAMAGE AND THEFT</i> Catalin CIOACA* **"Henri Coandă" Air Force Academy, Braşov, Romania |
| 14. | 17.00 | <i>KINEMATIC ANALYSIS FOR MULTI-COPTER UAV LANDING GEAR</i> Doru LUCULESCU*, Vasile PRISACARIU*, Octavian ISĂILĂ** **"Henri Coandă" Air Force Academy, Braşov, Romania, **The Training, Study and Research Institute for UVS, ITSC-SVFP, Mediaş, Romania |
| 15. | 17.15 | <i>DEVELOPMENT OF INTELLIGENT ALGORITHMS FOR UAV PLANNING AND CONTROL</i> Victor VLADAREANU*, Elena-Corina BOSCOIANU**, Ovidiu-Ilie SANDRU***, Mircea BOSCOIANU*** *Institute of Solid Mechanics of the Romanian Academy, Bucharest, Romania, **National Institute for Aerospace Research "Elie Carafoli", Bucharest, Romania, *** Politehnica University, Bucharest, Romania, ****"Henri Coandă" Air Force Academy, Braşov, Romania |

3. ENGINEERING SCIENCE

3.1 Electrical and Electronics Engineering/
Renewable Energy and Environment
Conference ROOM E38

3.2 Mechanical Engineering. Materials and Technology
Conference ROOM E39

3.3 Applied Mathematics, Computer Science & IT
Conference ROOM E44



3.1 Electrical and Electronics Engineering/Renewable Energy and Environment

Conference ROOM E38

Moderator:

Daniel Tudor COTFAS, PhD

Transilvania University of Brasov, Romania

Dilyan DIMITROV

National Military University "Vasil Levski", Bulgaria

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| 1. | 12.00 | <i>CAMERA CALIBRATION FOR VISUAL ODOMETRY SYSTEM</i> Titus CIOCOIU* , Florin MOLDOVEANU* , Caius SULIMAN* *”Transilvania” University of Braşov, Romania |
| 2. | 12.15 | <i>PERFORMANCE EVALUATION OF THE THERMOELECTRIC GENERATOR</i> Petru Adrian COTFAS* , Daniel Tudor COTFAS* , Octavian MACHIDON* , Cristina CIULAVU* *”Transilvania” University of Brasov, Romania |
| 3. | 12.30 | <i>COMPARATIVE ANALYSIS OF TUNING MISSILE AUTOPILOTS USING INTELLIGENT METHODS</i> Rumen GEORGIEV* , Kolyo KOLEV* *National Military University, Aviation Faculty, Dolna Mitropolia, Bulgaria |
| 4. | 12.45 | <i>FUZZY LOGIC CONTROL FOR A DC TO DC BUCK CONVERTER</i> Jenica-Ileana CORCAU* , Liviu DINCA** *University of Craiova, Faculty of Electrical Engineering, Department of Electrical, Energetic and Aerospace Engineering, Craiova, Romania |

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| 5. | 13.00 | <p><i>USING MULTI-CARRIER PROBING SIGNALS FOR DETECTING NON-LINEAR OBJECTS</i> Dilyan DIMITROV*, Matei KIROV* *National Military University "Vasil Levski", Faculty „Artillery Airdefense and Communication and information system“, Shumen, Bulgaria</p> |
| 6. | 13.15 | <p><i>IOT DIAGNOSTICS FOR CONNECTED CARS</i> Gheorghe PANGA*, Sorin ZAMFIR**, Titus BĂLAN***, Ovidiu POPA**** *„Transilvania” University of Braşov, Romania</p> |
| 7. | 13.30 | <p><i>DISPLAYING THE AIR SITUATION THROUGH THE COLLECTION AND PROCESSING OF FLIGHT INFORMATION ON FLIGHTRADAR24 PROJECT</i> Karina KALAGIREVA*, Veselin RADKOV** *Department of Aeronautics, Technical University of Sofia, Bulgaria</p> |
| 8. | 13.45 | <p><i>THIN CLIENT FOR REAL-TIME MONITORING OF COMMUNICATION INFRASTRUCTURE</i> Iulian ILIESCU*, Titus BĂLAN*, Oana GAROIU*, Sorin ZAMFIR* *„Transilvania” University of Braşov, Romania</p> |
| 9. | 14.00 | <p><i>FRACTAL STRIPLINE ANTENNA WITH COMBINED ELEMENTS</i> Gheorghe MORARIU*, Mihai MIRON** *„Transilvania” University of Brasov, Romania</p> |
| 10. | 14.15 | <p><i>SYNTHESIS OF DIGITAL SYSTEMS USING DECOMPOSITION ALGORITHMS</i> Mihai TIMIS*, Alexandru VALACHI* *Automatic Control and Computer Engineering, "Gh.Asachi", Iasi, Romania</p> |
| 11. | 14.30 | <p><i>ASPECTS ABOUT FREQUENCY SYNTHESIZERS</i> Bebe-Bucur MARIN*, Adrian NĂSUI*, Sebastian SPRINCEANĂ* *Ministry of National Defence</p> |

3.2 Mechanical Engineering. Materials and Technology

Conference ROOM E39

Moderators:

Béla VARGA, PhD

National University of Public Service, Budapest, Hungary

Ion DINESCU, PhD

„Henri Coandă” Air Force Academy, Brasov

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| 1. | 12.00 | <p><i>STUDY ABOUT DIMENSIONAL STABILITY OF INTERLOCK KNITTED FABRICS MADE FROM COTTON YARNS</i></p> <p>*Monica SZABO, * Mihaela DOCHIA, * Monica LUNGU *“Aurel Vlaicu” University of Arad, Romania</p> |
| 2. | 12.15 | <p><i>THE INCREASING ROLE OF USING AIR TRAINING EQUIPMENT IN THE PROCESS OF EDUCATION AND COORDINATION OF THE CREW DUTIES</i></p> <p>*Slawomir AUGUSTYN, **Wioletta ZAWODNIK * National Defence University, Warsaw, Poland, **Aviation & Air Defence Institute, Poland</p> |
| 3. | 12.30 | <p><i>EXPERIMENTAL MECHANICAL DEVICE FOR RECOIL SIMUALTION</i></p> <p>Tomáš LUKÁČ*, Roman VÍTEK*, Linh DO DUC*, Vladimír HORÁK* *Faculty of Military Technology, University of Defence, Brno, Czech Republic</p> |
| 4. | 12.45 | <p><i>THERMO-ANEMOMETRIC DETERMINATION OF LIQUID WATER CONTENT IN WET AIRSTREAM</i></p> <p>Rostislav JANKŮ*, Vladimír HORÁK** *Student of Faculty of Military Technology, University of Defence, Brno, Czech Republic, ** Department of Mechanical Engineering, University of Defence, Brno, Czech Republic</p> |

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| 5. | 13.00 | <i>DETERMINATION OF MAXIMUM ANGLE SLOPE THROUGH NORMAL REACTIONS TO THE WHEELS, IN STATIC AND DYNAMIC REGIME</i> Adrian ȘOICA[*], Stelian ȚARULESCU[*] [*] ”Transilvania” University of Brasov, Romania |
| 6. | 13.15 | <i>DYNAMICS OF KNOCK-OPEN VALVE FOR GAS GUNS POWERED BY CARBON DIOXIDE</i> Linh DO DUC[*], Vladimír HORÁK[*], Tomáš LUKÁČ[*], Roman VÍTEK[*], Quang Huy MAI[*] [*] University of Defence, Brno, Czech Republic, ^{**} University of Defence, Brno, Czech Republic |
| 7. | 13.30 | <i>RESEARCHES ON COMBUSTION QUALITY FOR A GDI EXPERIMENTAL ENGINE</i> Stelian ȚARULESCU[*], Radu ȚARULESCU[*], Adrian ȘOICA[*] [*] ”Transilvania” University of Brașov, Romania |
| 8. | 13.45 | <i>FACADE OF PERFORATED PLATE: ANALYSIS OF ITS ACOUSTIC BEHAVIOR</i> Alina-Elena CREȚU[*] [*] Military Technical Academy, Bucharest, Romania |
| 9. | 14.00 | <i>DYNAMIC CONTROL OF PNEUMATIC ACTUATOR SYSTEM</i> Ionel Cristian VLADU[*], Daniela ROȘCA[*], Nicu BÎZDOACĂ[*], Viorel STOIAN[*] [*] University of Craiova, Craiova, Romania |
| 10. | 14.15 | <i>CONSIDERATIONS REGARDING THE IMPROVEMENT OF THE MILITARY DRIVER’S SEAT COMFORT FOR THE MILITARY SPECIAL INTERVENTION VEHICLES</i> Cornel ARAMĂ[*], Marian MITROI^{**}, Lavinia ARAMĂ^{***}, Mariana ARAMA[*] [*] ”Henri Coandă” Air Force Academy, Brașov, Romania, ^{**} Faculty of Mechanical Engineering, ”Transilvania” University of Brașov, Romania, ^{***} freelancer |
| 11. | 14.30 | <i>THE IMPLICATIONS OF RANDOM VIBRATIONS GENERATED BY ROUGH AND HARDLY ACCESSIBLE TRAILS ON MILITARY BODY</i> Marian MITROI[*], Cornel ARAMĂ^{**} [*] Faculty of Mechanical Engineering, ”Transilvania” University of Brașov, Romania, ^{**} ”Henri Coandă” Air Force Academy, Brașov, Romania |

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| 12. | 14.45 | <p><i>THE EXPERIMENTAL ANALYSIS OF THE MEANDERING PHENOMENON GENERATED AT A RAILWAY WAGON</i> Bogdan CIORUȚA*, Tudor SIRETEANU** *Faculty of Science, North Univ. Centre at Baia Mare - Tehnical Univ. of Cluj-Napoca, Romania, **Institute of Solid Mechanics of the Romanian Academy, Bucharest, Romania</p> |
| 13. | 16.00 | <p><i>THE TURBINE INLET TEMPERATURE AND COMPRESSOR PRESSURE RATIO, THE SIAMESE TWINS OF THE GAS TURBINE ENGINES</i> Béla VARGA*, Gyula ÓVÁRI*, László KAVAS* *National University of Public Service, Budapest, Hungary</p> |
| 14. | 16.15 | <p><i>DETERMINATION BOMBING ACCURACY FROM LEVEL DELIVERY USING THE EJECTION PRACTICAL BOMB</i> Stoyko STOYKOV*, Milen ATANASOV** **"Institute for Research and Innovation", National Military University, Veliko Tarnovo, Bulgaria, ***"Aviation" Faculty, National Military University, Dolna Mitropolia, Bulgaria</p> |
| 15. | 16.30 | <p><i>CAD – CAM PROCEDURES USED FOR RAPID PROTOTYPING OF AN ELECTRIC MOTOR DRIVING SHIELD</i> Luminita POPA*, Vasile POPA** **"Transilvania" University of Brasov, Romania, ** National Defence University "Carol I" Regional Department for Defense Resources, Bucharest, Romania</p> |

3.3 Applied Mathematics, Computer Science & IT

Conference ROOM E44

Moderators:

Corneliu UDREA, PhD

Faculty of Mathematics and Computer Science, University of Pitești

Ștefan-Gheorghe PENTIUC, PhD

„Ștefan cel Mare” University, Suceava

Gheorghe RADU, PhD

„Henri Coandă” Air Force Academy, Brasov

INVITED PAPERS

| | |
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| 12.00 | <i>SOME CONSIDERATION ON DISSIPATIVE PROCESSES IN STEEL PHASE TRANSITIONS</i> Constantin GHITĂ, PhD, „Valahia” University, Tîrgoviște, Romania |
| 12.20 | <i>CONTINUOUS FUNCTION AND TOPOLOGICAL STRUCTURE OF ITS GRAPH</i> Corneliu UDREA, PhD, University of Pitești, Romania |
| 12.40 | <i>CLUSTERING TECHNIQUES IN UNSUPERVISED PATTERN RECOGNITION</i> Ștefan-Gheorghe PENTIUC, Phd, „Ștefan cel Mare” University, Suceava, Romania |

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| 1. | 13.00 | <i>STRUCTURAL HEALTH MONITORING SYSTEM FOR IAR 99 AIRCRAFT</i> Eugen DUMITRU* *Research and Flight Test Center, Craiova, Romania |
| 2. | 13.15 | <i>SUBJECT INFORMATION TECHNOLOGY IN MILITARY EDUCATION – CIVILIAN STUDY</i> Miroslav HRUBÝ* *University of Defence, Brno, Czech Republic |

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| 3. | 13.30 | <p>MULTICOPTER LANDING Jaromir HOSEK* *”University of Defence, Faculty of Military Technology, Brno, Czech Republic</p> |
| 4. | 13.45 | <p>STOCHASTIC APPROXIMATION FOR RELIABILITY PROBLEMS Florența Violeta TRIPȘA*, Ana-Maria LUCA (RÎTEA)* *”Transilvania” University of Brașov, Romania</p> |
| 5. | 14.00 | <p>REGARDING THE POPULATION DYNAMICS INVESTIGATION USING ENVIRONMENTAL INFORMATION SYSTEMS Alin-Andrei CIORUȚA*, Bogdan CIORUȚA* *Faculty of Science, North Univ. Center at Baia Mare - Technical Univ. Cluj-Napoca, Baia Mare, Romania</p> |
| 6. | 14.15 | <p>SATELLITE TRACKING USING NORAD TWO-LINE ELEMENT SET FORMAT Emilian-Ionuț CROITORU*, Gheorghe OANCEA* *”Transilvania” University of Brașov, Romania</p> |
| 7. | 14.30 | <p>A NEW eBook CONCEPT AND TECHNOLOGY DEDICATED TO GEOGRAPHICAL INFORMATION Dan CRISTEA*, Ștefan-Gheorghe PENTIUC** *”Alexandru-Ioan Cuza” University of Iasi, Faculty of Computer Science, Iasi, Romania, **”Stefan cel Mare” University of Suceava, Faculty of Electrical Engineering and Computer Science, Suceava, Romania</p> |
| 8. | 14.45 | <p>COLLABORATIVE LEARNING USED IN TEACHING THE INFORMATION TECHNOLOGIES CONCEPTS Tiberiu BULIGA*, Ștefan-Gheorghe PENTIUC** *MintViz Lab, MANSID Research Center, Faculty of Electrical Engineering and Computer Science, Suceava, Romania, **University ”Stefan cel Mare” of Suceava, Romania</p> |
| 9. | 16.00 | <p>A NUMERICAL ANALYSIS OF COMBUSTION PROCESS IN AN AXISYMMETRIC COMBUSTION CHAMBER Alexandru DUMITRACHE*, Florin FRUNZULICA** *Institute of Mathematical Statistics and Applied Mathematics, Bucharest, Romania, **Politehnica University, Bucharest, Romania</p> |

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| 10. | 16.15 | <p><i>OPTIMAL CONTROL IN STABILIZING THE DYNAMICS OF SHIPS AND MULTI-PROPELLED MISSILES</i> Mircea LUPU*, Gheorghe RADU**, Cristian George CONSTANTINESCU** *”Transilvania” University of Braşov, Romania, **“Henri Coanda” Air Force Academy Brasov, Romania</p> |
| 11. | 16.30 | <p><i>STATISTICAL PROCESSING OF EXPERIMENTAL DATA USING ANALYSIS OF VARIANCE</i> Ioan MILOSAN* *”Transilvania” University of Brasov, Romania</p> |
| 12. | 16.45 | <p><i>IDENTIFYING DATA AFFECTED BY ABERRANT ERRORS OBTAINED IN THE MANUFACTURING OF SPECIAL ALLOYS</i> Ioan MILOSAN* * ”Transilvania” University of Brasov, Romania</p> |
| 13. | 17.00 | <p><i>USING THE ANALOGY IN TEACHING TETRAHEDRON GEOMETRY</i> Adriana-Daniela GURGUI* *”Ovidius High School”, Constanta, Romania</p> |
| 14. | 17.15 | <p><i>THE STABILITY OF THE CONTROLABILITY BY TWO SCALE HOMOGENIZATION</i> Mihaela DUMITRACHE* *University of Piteşti, Romania</p> |
| 15. | 17.30 | <p><i>SOME RESULTS ACCORDING THE INTERLACING THE ZEROS OF A FUNCTION</i> Ana-Maria LUCA (RÎTEA)*, Florenţa Violeta TRIPŞA* *”Transilvania” University of Braşov, Romania</p> |

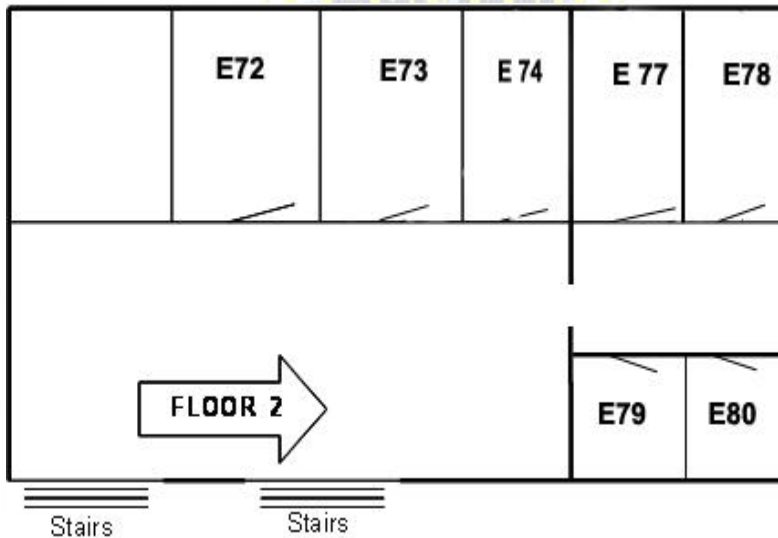
4. MANAGEMENT AND SOCIO-HUMANITIES

4.1 Socio-Humanities

Conference ROOM E73

4.2 Management

Conference ROOM E77



4.1 SOCIO-HUMANITIES

Conference ROOM E73

Moderators:

Diana ILIȘOI, PhD

“Henri Coandă” Air Force Academy, Brasov

Răzvan-Lucian ANDRONIC, PhD

“Spiru Haret” University, Romania

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|----|-------|---|
| 1. | 12.00 | <i>DEPRESSION AND LOW SELF-ESTEEM AND ITS INFLUENCES ON SCHOOL PERFORMANCE</i> Marilena TICUSAN* * Faculty of Psychology and Educational Science, Brașov, Spiru Haret University, Romania |
| 2. | 12.15 | <i>ABSENTEEISM AND SCHOOL DROP-OUT – PREVENTION METHODS IN CASE OF TEENAGERS</i> Marilena TICUSAN* * Faculty of Psychology and Educational Science, Brașov, Spiru Haret University, Romania |
| 3. | 12.30 | <i>EDUCATION vs. INDOCTRINATION</i> Irina IOANA *, Constantin-Edmond CRACSNER * *Ecological University of Bucharest, Romania |
| 4. | 12.45 | <i>STUDY ON THE PERCEPTION OF SCHOOL VIOLENCE BY TEACHERS AND STUDENTS</i> Elena HURJUI* *University Spiru Haret, București, Romania |
| 5. | 13.00 | <i>THE INFLUENCE OF ENVIRONMENT FACTORS ON THE INDIVIDUAL SUFFERING FROM PHYSICAL IMPAIRMENT</i> Ana Maria FURTUNA * *, „St. Andrew’s” Children’s Center, Pitesti, Romania |
| 6. | 13.15 | <i>EVALUATION AND SOCIAL INFLUENCE IN SCHOOL EDUCATION</i> Răzvan-Lucian ANDRONIC*, Anca-Olga ANDRONIC* *Faculty of Psychology and Educational Sciences Brasov, Spiru Haret University, Romania |

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| 7. | 13.30 | <i>ALTRUISM, TRUST AND VOLUNTEERING</i> Răzvan-Lucian ANDRONIC* *Faculty of Psychology and Educational Sciences Brasov, Spiru Haret University, Romania |
| 8. | 13.45 | <i>THE STATUS OF ARMED CONFLICTS. CASE STUDY: THE CONFLICT IN SYRIA</i> Cosmin IVANCIU* *„Henri Coandă” Air Force Academy, Braşov, Romania |
| 9. | 14.00 | <i>MALPRACTICE VALUATION</i> Ioana LEPĂDATU* *”Spiru Haret” University, Faculty of Psychology and Science Education, Braşov, Romania |
| 10. | 14.15 | <i>THE DYNAMICS GENDER ROLE STEREOTYPES: A STUDY ON CHILDREN IN ROMANIA</i> Rodica ȚOCU* *”Dunarea de Jos” University of Galati, Galati, Romania |
| 11. | 14.30 | <i>THE HILL AND KNOWLTON AFFAIR AND THE MARKETIZATION OF THE FIRST GULF WAR. A POLANYIAN PERSPECTIVE</i> Silviu Valentin PETRE* *independent researcher, Romania |
| 12. | 14.45 | <i>“PRE-SERVICE LANGUAGE TEACHER EDUCATION IN TURKEY”</i> Serkan ÜLGÜ*, Mustafa ER* *Turkish Air Force Academy, Turkey |
| 13. | 16.00 | <i>HYBRID PEDGOGIES FOR HYBRID WAR</i> Mihail ANTON* *”Carol I” National Defense University, Bucharest, Romania |
| 14. | 16.15 | <i>DECLARATION OF WAR BY BULGARIA AGAINST ROMANIA ON 1 SEPTEMBER 1916. TURTUCAIA AND ITS IMPACT ON ROMANIAN MILITARY LEADERSHIP</i> Silviu-Daniel NICULAE* * The Centre for Euro-Atlantic Studies, the University of Bucharest |
| 15. | 16.30 | <i>PARTICULARITIES OF PREPARING ROMANIA’S TERRITORY IN CASE OF THE COUNTRY’S IMPLICATION IN A HYBRID WAR</i> Daniel-Cornel ȘTEFĂNESCU* *”Henri Coandă” Air Force Academy, Braşov, Romania |

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| 16. | 16.45 | <p><i>METHODOLOGICAL ASPECT IN MASSAGE AND KINETIC TECHNIQUES EFFICENCY FROM FACIAL PARESIS REHABILITATION</i></p> <p>Ionel MIRON* *University of Bucharest, PHD School of Psihology and Education Science of Bucharest, Romania</p> |
| 17. | 17.00 | <p><i>SPINE THERAPY IN CERVICAL AREA – LIMITS AND EFICIENCY</i></p> <p>Ionel MIRON* *University of Bucharest, PHD School of Psihology and Education Science of Bucharest, Romania</p> |
| 18. | 17.15 | <p><i>PSYCHOBEHAVIOURAL IMPLICATIONS OF THE CIRCADIAN RHYTHM DISORDER</i></p> <p>Angela BLOGUȚ*, Izabella PETRE** **“Vasile Goldiș” Western University of Arad, Arad, Romania, **Victor Babeș University of Medicine and Pharmacy, Faculty of Medicine, Timișoara, Romania</p> |
| 19. | 17.30 | <p><i>INFORMATION MANAGEMENT LYING ON CRISIS WITHIN US INTELLIGENCE COMMUNITY</i></p> <p>Andrei ZOTA*, Marian OANĂ** *Ministry of National Defense, Romania , ** Ministry of National Defense, Romania</p> |
| 20. | 17.45 | <p><i>THE PROTECTION OF WOMEN DURING ARMED CONFLICTS</i></p> <p>Cosmin IVANCIU* *, „Henri Coandă” Air Force Academy, Brașov, Romania</p> |
| 21. | 18.00 | <p><i>MOTIVATION AND PERFORMANCE. CORRELATION STUDY</i></p> <p>Georgiana CORCACI* *University "Petre Andrei" Iasi, Faculty of Psychology and Educational Sciences, Romania</p> |
| 22. | 18.15 | <p><i>NATIONAL SECURITY AND PUBLIC OPINION</i></p> <p>Cristian-Gabriel SABĂU*, Virgil ION** **”Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania</p> |
| 23. | 18.30 | <p><i>CHILD ABUSE. CASE STUDY</i></p> <p>Cristina BĂLAN* *Faculty of Psychology and Educational Sciences Brasov, Spiru Haret University, Romania</p> |

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| 24. | 18.45 | POSTMODERN FAMILY – COORDINATES AND TRENDS Cristina BĂLAN* *Faculty of Psychology and Educational Sciences Brasov, Spiru Haret University, Romania |
| 25. | 19.00 | REPUBLIC OF ADYGEA: A CIRCASSIAN ISLAND IN A RUSSOPHONE OCEAN Ilie Iulian MITRAN* * Ovidius University, Constanta, Romania |
| 26. | 19.15 | THE TUDORS IN BRITISH HISTORY Carmen NEGOIȚĂ*, Alexandru BOT* Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania |
| 27. | 9.00 | WAYS TO PREVENT AND COMBAT SCHOOL FAILURE Elena HURJUI* *University Spiru Haret ,București, Romania |
| 28. | 9.15 | THE EVOLUTION OF MILITARY THOUGHT AND PRACTICE ILLUSTRATED IN THE JOURNALISM OF GENERAL STAFF Alina PAPOI* * Romanian General Staff, Ministry of National Defense, Romania |
| 29. | 9.30 | CYBER SECURITY STRATEGIES IN THE INTERNET ERA Cătălin-Ionuț NASTASIU* **”Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania |
| 30. | 9.45 | THE REFUGEES’ COUNSELLING – A PREREQUISITE FOR INCREASING THE EFFICIENCY OF THEIR ADAPTATION TO THEIR NEW COUNTRY OF RESIDENCE Roxana MAIER* *Journalism, Psychology and Education Sciences Hyperion University, Bucharest, Romania |
| 31. | 10.00 | EDUCATION FOR SANOGENOUS BEHAVIOURS IN PRIMARY SCHOOL CHILDREN Roxana MAIER*, Ioana GOLU*, Alina MARIAN** *Hyperion University, Bucharest, Romania, **Western University “Vasile Goldiș” of Arad, Romania |

4.2 MANAGEMENT

Conference ROOM E77

Moderators:

József TÓTH

Department of Aircraft and Engines, National
University of Public Service, Hungary

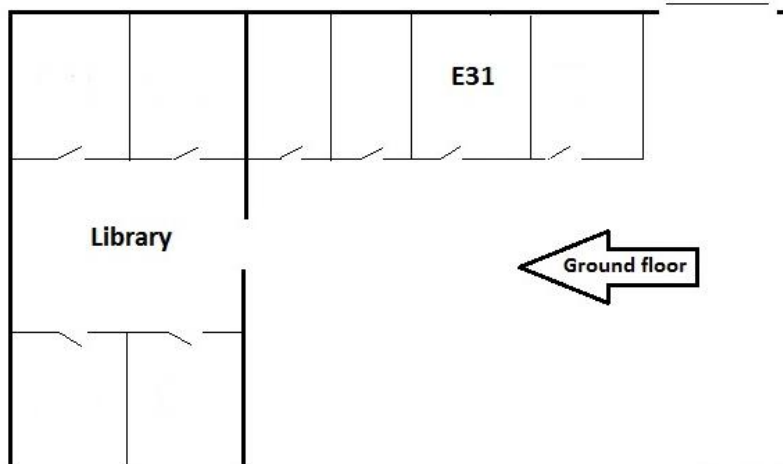
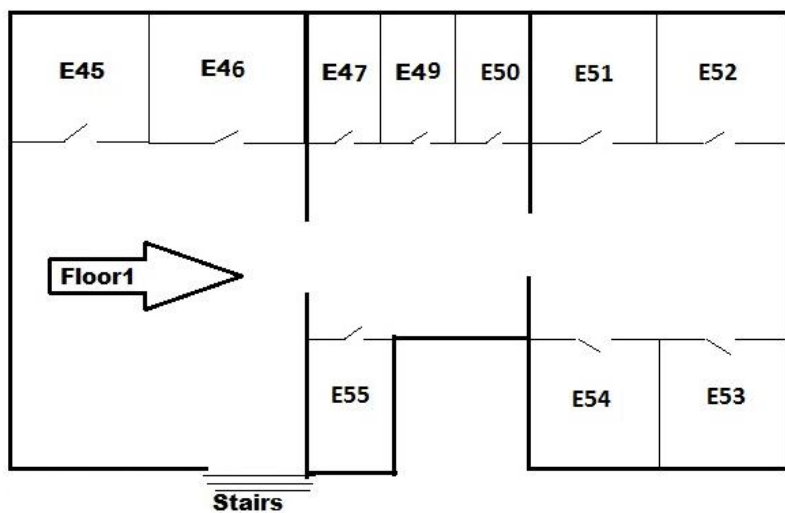
Cătălin CIOACĂ

„Henri Coandă” Air Force Academy, Brasov

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| 1. | 12.00 | <i>RISK ASSESSMENT – STEP BY STEP IN IMPROVING SAFETY MANNER WITH REGARD TO VOLCANIC ASH CONTAMINATION</i> Maria PETKOVA* *Bulgarian Air Traffic Services Authority, Bulgaria |
| 2. | 12.15 | <i>HEALING OF BELIEF IN ONESELF AS A GENERATOR OF THE ACT OF CREATION OF THE COURSE OF THE EVENTS IN THE UNIVERSE</i> Daniela BELU* *„Henri Coandă” Air Force Academy, Braşov, Romania |
| 3. | 12.30 | <i>ECO-MANAGEMENT FOR SUSTAINABLE DEVELOPMENT USING THE CIRCULAR ECONOMY</i> Anca IUGA (BUTNARIU)* *” Transilvania” University of Brasov, Department of Engineering and Industrial Management, Braşov, România |
| 4. | 12.45 | <i>ECO-RESOURCES MANAGEMENT AND THE CIRCULAR ECONOMY</i> Anca IUGA (BUTNARIU)* *” Transilvania” University of Brasov, Department of Engineering and Industrial Management, Braşov, România |
| 5. | 13.00 | <i>PSYCHOLOGICAL OPERATIONS</i> Marian NECULA*, Răzvan IRIMIA* *“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania |

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| 6. | 13.15 | <p><i>AN INTEGRATED RESEARCH OF AIRCRAFT MAINTENANCE OFFICER COMPETENCIES</i> József TÓTH* *Department of Aircraft and Engines, National University of Public Service, Hungary</p> |
| 7. | 13.30 | <p><i>THE ECOLOGICAL DIMENSION OF SUSTAINABLE DEVELOPMENT</i> Emanoil MUSCALU*, Mihai NEAG**, Elisabeta-Emilia HALMAGHI** **"Lucian Blaga" University, Sibiu, Romania, ***"Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania</p> |
| 8. | 13.45 | <p><i>MODERN MANAGEMENT - A NEEDED SOLUTION FOR INCREASING THE COMPETITIVENESS OF INDUSTRIAL COMPANIES</i> Gabriel BORSOS*, Cosmin Constantin IACOB*, Gavrilă CALEFARIU* **"Transilvania" University of Brasov, Romania</p> |
| 9. | 14.00 | <p><i>INTEGRATED COMPUTER SYSTEMS DEDICATED FOR PRODUCTS LIFECYCLE</i> Vasile POPA*, Luminita POPA** **"National Defence University "Carol I", Regional Department for Defense Resources, Bucharest, Romania, ***"Transilvania" University of Brasov, Romania</p> |
| 10. | 14.15 | <p><i>INVESTIGATIONS REGARDING THE MANAGEMENT OF SPECIFIC INTELLECTUAL PROPERTY RISKS IN COMPANIES FROM ROMANIA</i> Ramona PAKOCS*, Nouraş Barbu LUPULESCU* **"Transilvania" University of Brasov, Department of Manufacturing Engineering, Romania</p> |
| 11. | 14.30 | <p><i>CURRENT STATE OF INVESTIGATIONS REGARDING THE QUALITY AND RISK MANAGEMENT OF SPECIFIC INTELLECTUAL PROPERTY RISKS</i> Ramona PAKOCS*, Nouraş Barbu LUPULESCU* **"Transilvania" University of Brasov, Department of Manufacturing Engineering, Romania</p> |

5. WORKSHOPS



26 mai 2016

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| 10.00 – 10.30 | DESCHIDEREA WORKSHOP-URILOR <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i> | |
| 10.30 - 12.15 | W1- , Tehnici Cognitive Comportamentale pentru copii anxioși” Ioana LEPĂDATU <i>Aula Academiei</i> | W13- , Metoda Feuerstein - o nouă dimensiune în dezvoltarea armonioasă a copiilor!” Otilia TODOR <i>Sala E45</i> |
| 12.30 - 13.00 | PAUZĂ DE MASĂ | |
| 13.00 - 14.45 | W15- , Managementul intervenției psihologice în cazul evenimentelor cu caracter traumatic” Adrian PRISĂCARU <i>Aula Academiei</i> | W2- , Parteneriatul Psiholog -medic în Psihologia clinică/psihodiagnosticul clinic” Corina-Mihaela ZAHARIA <i>Sala E45</i> |
| 15.00 – 17.30 | W3- , Diagnosticul diferențial în tulburările de comportament alimentar în psihologia clinică” Cătălin-Marius GHERASIM <i>Aula Academiei</i> | W16- , Strategia de securitate națională și strategiile educaționale. Prezent și viitor.” Corina-Mihaela ZAHARIA <i>Sala E45</i> |
| 17.30 – 20.30 | W4- , Ordinea nașterii în abordarea psihoterapiei adleriene” Cătălin-Marius GHERASIM <i>Aula Academiei</i> | W9- , Metode și tehnici în evaluarea psihologică (domeniul psihologiei transporturilor)” Daniela HIERA, Roxana MAIER, Dana VITALIA, Maria ȘTEFAN <i>Sala E45</i> |

27 mai 2016

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| 08.30 - 11.00 | DESCHIDEREA CONFERINȚEI <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i> | | |
| 11.15 – 12.00 | SESIUNE DE POZE ȘI EXPOZIȚIE DE TEHNICĂ MILITARĂ | | |
| 12.00 -13.45 | W11- „Terapiile ocupaționale - artterapia” Maria-Dorina PAȘCA <i>Sala E45</i> | W14- „Evoluția psihomorală deficitară. Intervenții recuperatorii” Claudiu STAIER <i>Sala E31</i> | W8- „ Considerații generale privind psihologia sănătății individuale și ocupaționale” Constantin-Edmond CRACSNER <i>Aula Academiei</i> |
| 14.00 – 15.00 | PAUZĂ DE MASĂ | | |
| 15.00 -16.45 | W5- „ Accesarea și prelucrarea unor experiențe din “umbră” prin intervenții psiho-corporale experiențiale” Florin VANCEA <i>Aula Academiei</i> | W12- „ Terapia tulburarilor de limbaj – modalități de corectare a pronunției și dificultăți întâmpinate” Ramona și Viorel LUPU <i>Sala E45</i> | |
| 17.00-18.45 | W7- „Evaluarea și consilierea psihologică a candidaților pentru obținerea permisului de conducere – exemple de bune practici” Camelia BĂNCILĂ-VASARHELY, Ciprian RĂULEA <i>Sala E45</i> | W17- „ Importanța explorării personalității în evaluarea psihologică pentru port armă - Exerciții de interpretare comportamentală prin corelații interscalare” Alexandru GĂIANU <i>Aula Academiei</i> | |

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| 19.00 - 20.30 | <p>W6-, Hiperactivitate și modelare la copiii din ciclul primar”</p> <p>Marilena TICUȘAN</p> <p><i>Sala E45</i></p> | <p>W10-, Intervenție psihologică la nivel organizațional în scopul dezvoltării personale și a dobândirii de abilități suplimentare de către angajați”</p> <p>Alexandru GĂIANU</p> <p><i>Aula Academiei</i></p> |
| 20.00 - 24.00 | CINĂ FESTIVĂ | |

28 mai 2016

ACTIVITĂȚI DE VIZITARE



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