

**„HENRI COANDĂ”
AIR FORCE ACADEMY**



ROMANIA

**„GENERAL M. R. STEFANIK”
ARMED FORCES ACADEMY**



SLOVAK REPUBLIC

**“Henri Coandă”
ASSOCIATION FOR RESEARCH AND EDUCATION**



ROMANIA

CONFERENCE GUIDE AFASES 2013

THE 15-th INTERNATIONAL CONFERENCE

**23 – 25 May, 2013
Brasov-ROMANIA**

CONFERENCE AGENDA

Thursday 23 May 2013

10 ⁰⁰ - 18 ³⁰	Arrival of participants. Accommodation
19 ³⁰	Ice Breaker Evening

Friday 24 May 2013

08 ⁰⁰ - 08 ³⁰	Welcoming and registration
08 ³⁰ - 09 ³⁰	Opening of the session
	- Opening Speeches
	- Organizational specification
	- Plenary session
09 ³⁰ - 09 ⁴⁵	Group photo
09 ⁴⁵ - 10 ³⁰	UAV presentation
10 ³⁰ - 14 ⁰⁰	Paper presentation on sections (I)
14 ⁰⁰ - 15 ⁰⁰	Lunch Break
15 ⁰⁰ - 19 ⁰⁰	Paper presentation on sections (II)
20 ⁰⁰	Conference dinner

Saturday 25 May 2013

9 ⁰⁰ - 14 ⁰⁰	Sightseeing activities
14 ⁰⁰ - 23 ⁰⁰	Check-out Departure of participants

THE SESSIONS SECTIONS

		Room	Pag.
1	<i>MANAGEMENT, MARKETING, FINANCE</i>	E78	8
2	<i>SOCIO AND HUMANITIES</i>	E31	11
3	<i>MATHEMATICS, COMPUTER SCIENCE, IT&C</i>	E44	17
4	<i>ENGINEERING SCIENCES</i>		20
4.1	Electrical and electronical engineering . Renewable energy and environment	E10	21
4.2	Mechanical engineering. Matherials and technology	E13	23
5	<i>AIR FORCE. DEVELOPMENTS IN THE FIELD OF UAS's</i>	E5	27
6	WORKSHOPS		31

INTERNATIONAL SCIENTIFIC COMMITTEE

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Brigadier General **Boris ĐURKECH**, PhD

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Colonel **Miroslav BAUER**, PhD

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Professor **Maria IOANIDES**, PhD

Professor **Barry JACKSON**, PhD

Professor **James KEAGLE**, PhD
Colonel **Zbysek KORECKI**, PhD
Professor **Melissa LUKE**, PhD
Associate Professor **Doru LUCULESCU**, PhD
Associate Professor **Cristian MOLDOVEANU**, PhD
CS1 **Catalin NAE**, PhD,
Professor **Vasile NĂSTĂSESCU**, PhD
Colonel (GS) **Pavel NECAS**, PhD
Professor **Mariela PAVALACHE – ILIE**, PhD
Professor **Marian PEARSICA**, PhD
Professor **Gabriela PRELIPCEAN**, PhD
Professor **Mihai ROMAN**, PhD
Professor **Daniela ROSCA**, PhD
Lecturer **Adrian ROTARIU**, PhD
Commander Professor **Gheorghe SAMOILESCU**, PhD
Professor **Florentin SMARANDACHE**, PhD
Professor **Andreea SZILAGYI**, PhD
Professor **Milan SOPOCI**, PhD
Professor **Stelian STANCU**, PhD
Colonel Professor **Robert SZABOLCSI**, PhD
Professor **Alex STEFAN**, PhD
Professor **Joseph ZARKA**, PhD

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Assist Prof **Gheorghe RADU**, PhD
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Maj **Cornel ARAMA**, PhD
TA **Bogdan MUNTEANU**
Maj TA **Catalin CIOACA**
Maj **Cristian ENE**

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Col **Dumitru DINU**
Maj **Bogdan CHIOSEAU**
Lt **Cosmin TATULESCU**
WO **Marian MIHALACHE**
WO **Vasile PRISECARIU**

Secretariat:

Math **Carmen URSOIU**
Maj **Criste RĂU**

PLENARY SESSIONS

AUDITORIUM

Speaker: LtCol Assist Prof Laurian GHERMAN, PhD

“Henri Coanda” Air Force Academy, Brasov, Romania

Speaker: Milan SOPÓCI

Armed Forces Academy of General M. R. Štefánik, Liptovský
Mikuláš, Slovak Republic

Speaker: Air Flotilla General Prof Gabriel Florin MOISESCU, PhD

Rector of “Henri Coanda” Air Force Academy, Brasov, Romania

Speaker: Major General Victor STRIMBEANU, PhD

Romanian Air Force Staff, Chief of Training and Doctrine,
Bucharest, Romania

Speaker: Prof Barry JACKSON, PhD

Counseling Department Coordinator University Bloomsburg,
Pennsylvania, USA

Speaker: Assist Prof Ioana Panc, PhD

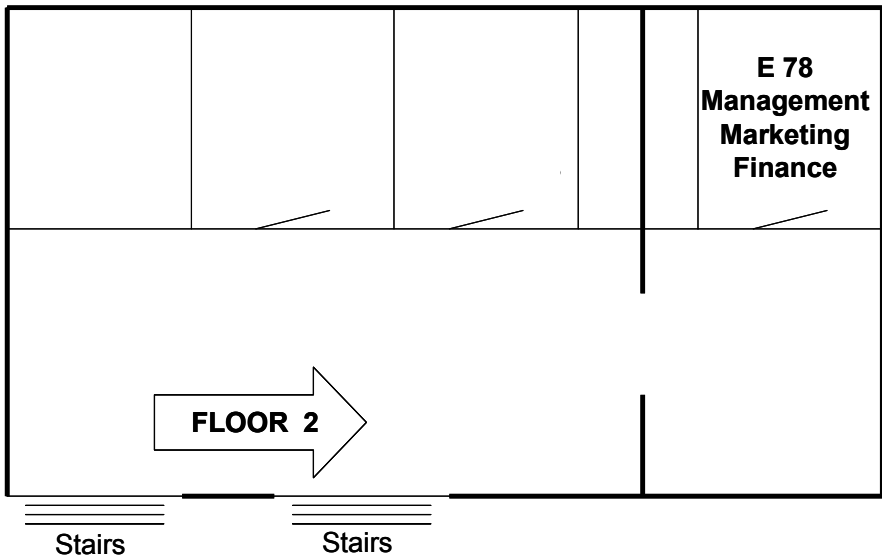
Titu Maiorescu University Romania, GCDF Romania Master
Trainer

Speaker: Prof Alexandru STEFAN, PhD

Manhattan Institute of Management, USA

1. *MANAGEMENT, MARKETING, FINANCE*

Room E78



MODERATORS:

- **Stelian STANCU**
- **Jaroslav NEKORANEC**
- **Daniela BELU**

IDENTIFYING AND RECOGNISING ELEMENTS OF FUTURE GENERATION OF MANAGERS

1. **Mariana BULBUC***, **Marius BENȚA****, **Andrei Mircea BOSCOR***, **Sorin REBEGEA***

* Informatical National College “Grigore Moisil” – Braşov, Romania,
**Transilvania University of Brasov – Romania

THE SCIENCE OF OPPORTUNITY IN ROMANIA

2. **Jeanina CIRCO (STANCU)**

Faculty of Engineering Technology and Industrial Management,
Transilvania University of Brasov, Brasov, Romania

TRACES OF THE ECONOMIC CRISIS IN ROMANIA

Without identifying the causes can not understand the effects

3. **Jeanina CIRCO (STANCU)**, **Nouras Barbu LUPULESCU**
Faculty of Engineering Technology and Industrial Management,
Transilvania University of Brasov, Brasov, Romania
-

RISKS AND THREATS RECOGNIZED IN THE SECURITY ENVIRONMENT

4. **Valentin-Bogdan DĂNILĂ**

PhD Candidate, National Intelligence Academy “Mihai Viteazul”,
Bucharest, Romania

e-INSURANCE - ASPECTS REGARDING THE ROMANIA ON-LINE INSURANCE MARKET

5. **Gherasim Solovestru DOMIDE***, **Adrian Dumitru SOLOMON****,
Alexandru DOMIDE ***

* Academy of Economic Studies, Bucharest, Romania, ** National
School of Political and Administrative Studies, Bucharest, Romania,
*** Rocredit Broker de Asigurare SRL, Baia Mare, Romania

REACTIONS TO SHOCKS OF THE ROMANIAN COMPANIES STOCK PRICES

6. **Ramona DUMITRIU**, **Razvan STEFANESCU**

Faculty of Economics and Business Administration, University “Dunarea
de Jos”, Galati, Romania

*MANAGERIAL SKILLS DEVELOPMENT AS AN INTEGRAL PART OF
MANAGERIAL COMPETENCE*

7. **Jaroslav NEKORANEC**
Armed Forces Academy of general Milan Rastislav Štefánik in Liptovský
Mikuláš
-

*REDUCE TIME MANUFACTURING IN FLEXIBLE SYSTEMS BY
REDUCING RISK FACTORS*

8. **Raluca NICOLAE, Anisor NEDELCU**
Transilvania University of Brasov, Manufacturing Engineering
Department, Romania
-

*QUALITY MANAGEMENT SYSTEM AS A SIGNIFICANT PILLAR OF
THE MILITARY EDUCATION PLATFORM*

9. **Mária PETRUFOVÁ**
Department of Management, The Armed Forces Academy of General
Milan Rastislav Štefánik in Liptovský Mikuláš
-

*CULTURAL – SYMBOLIC DIMENSION OF NON-REIMBURSABLE
FINANCING*

10. **Ileana SĂDEAN**
National School of Political and Administrative Studies – Bucharest,
Roamaia
-

*MANAGEMENT METHODS AND TECHNIQUES USED TO ENSURE
THE INTERNAL AUDIT PERFORMANCE*

11. **Marian SFETCU**
Faculty of Economics Sciences and Business Administration of „Babeş -
Bolyai” University of Cluj Napoca, Romania
-

*THE SOVEREIGN DEBT CRISIS – DETERMINING FACTOR IN
ENHANCING THE INSTABILITY DEGREE AT MACROECONOMIC
LEVEL*

12. **Stelian STANCU***, **Alexandra Maria CONSTANTIN***,
Oana Madalina PREDESCU(POPESCU)*,
Steliana Violeta STANCU (POPA)**
*Academy of Economic Studies, Bucharest, Romania, **Constantin
Brancoveanu University, Pitesti, Romania
-

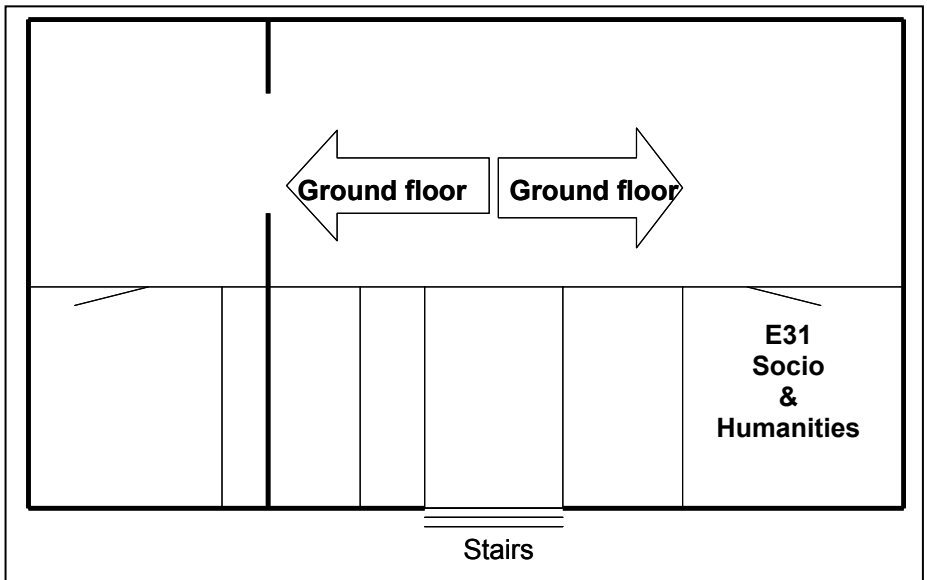
CHAOTIC BEHAVIOUR AT MICRO AND MACROECONOMIC LEVEL

13. **Stelian STANCU***, **Alexandra Maria CONSTANTIN***,
Oana Madalina PREDESCU(POPESCU)*, **Steliana Violeta
STANCU (POPA)****
*Academy of Economic Studies, Bucharest, Romania, **Constantin
Brancoveanu University, Pitesti, Romania
-

*SHORT-TERM INFLUENCE OF THE OIL PRICE ON STOCK PRICES
FROM THE BUCHAREST STOCK EXCHANGE*

14. **Razvan STEFANESCU, Ramona DUMITRIU**
Faculty of Economics, University “Dunarea de Jos”, Galati, Romania
-

2. SOCIO AND HUMANITIES
Room E31



MODERATORS:

- **Gheorghe PERȚEA**
- **Ioana PANC**
- **Delia BÎRLE**

CONSTRUCTIVIST APPROACHES TO CAREER COUNSELING

1. **Roxana AXINTE (BOBU), ȘOITU Laurențiu**
Faculty of Psychology and Education Sciences, “Al. I. Cuza” University of Iași, Romania
-

CREATIVITY AND CREATION IN THE SOCIO-MILITARY MEDIUM

2. **Daniel BĂNICĂ**
Romanian General Staff, Romania
-

RACE TO DOMINATE SPACE

3. **Daniel BĂNICĂ**
Romanian General Staff, Romania
-

ADOLESCENTS' TOLERANCE TOWARDS THE LEVEL OF MORALITY/IMMORALITY OF MORAL VALUES

4. **Delia BIRLE, Daniela CRISAN, Maria STEFANIA IONEL**
University of Oradea, Oradea, Romania
-

THE EVALUATION-A WAY OF MOTIVATING THE STUDENTS

5. **Alina Carmen BOZON**
Faculty of Psychology and Educational Sciences, University of Bucharest, Bucharest, Romania
-

APPLIED TECHNIQUES IN FAMILY BUSINESS DEVELOPMENT

6. **Sorin REBEGEA***
* Informatical National College “Grigore Moisil” – Brașov
**Transilvania University of Brasov – Romania
-

FACTORS AND CONDITIONS WHICH CAUSE SCHOOL ABSENTEEISM

7. **Gina Alina CARAVEȚEANU**
*Faculty of Psychology and Pedagogy, Spiru Haret University, Brasov, Romania
-

THE ORIGINS OF HAMAS: AN OFFSHOOT OF MUSLIM BROTHERHOOD, OR A RESULT OF THE PLO'S MORAL CORRUPTION?

8. **Ecaterina CEPOI**
“Carol I” National Defense University, Bucharest, Romania
-

- THE FORMATION OF INTERPERSONAL RELATIONSHIPS WITHIN A MILITARY NAVAL CREW*
9. **Carmen Luminita COJOCARU, Delia Natalia Alexandra LUNGU**
*“Mircea cel Batran” Naval Academy, Constanta, Romania
-
- ORGANIZATIONAL COMMUNICATION WITHIN LIMITS, BOTTLENECKS AND AGGRESSION*
10. **Georgiana CORCACI**
Department of Psychology, University ”Petre Andrei” of Iasi, Romania
-
- STUDENTS PERCEPTION ON THE FEEDBACK SUPPLIED BY THE SCHOOL*
11. **Amalia Diaconu**
Faculty of Psychology and Educational Sciences, University “Alexandru Ioan Cuza” Iasi, Romania
-
- SOCIAL AND PSYCHOLOGICAL IMPLICATIONS AT DEINSTITUTIONALIZED PEOPLE WITH SUICIDE RISK AND DEMONSTRATIVITY*
12. **Camelia DINDELEGAN**
Faculty of Social and Human Sciences, University of Oradea, Department of Psychology, Oradea, Romania and “Dr. Gavril Curteanu” Municipal Clinical Hospital Oradea, Romania
-
- FRUSTRATION TOLERANCE AND THE DEGREE OF NEUROTICISM OF DEINSTITUTIONALIZED INDIVIDUALS*
- Camelia DINDELEGAN***, **Crina TALPOȘ****,
Florina SERAC-POPA***
13. * Faculty of Social and Human Sciences, University of Oradea, Department of Psychology, Oradea, Romania and “Dr. Gavril Curteanu” Municipal Clinical Hospital Oradea, Romania, **Individual Psychology Practice Crina Talpoș, Oradea, România, ***“Dr. Gavril Curteanu” Municipal Clinical Hospital Oradea, România
-
- SCHOOL COUNSELLOR’S PROBLEMS AND DIFFICULTIES IN ROMANIA*
14. **Loredana DROBOT**
Theology, Social Sciences and Education Faculty, “Eftimie Murgu” University of Resita, Resita, Romania
-
- CHILD AND TEENAGER PSYCHOPEDAGOGICAL COUNSELLING. LEARNING COMPETENCY*
15. **Loredana DROBOT PhD ***, **Merima Carmen PETROVICI PhD ****
*Theology, Social Sciences and Education Faculty, “Eftimie Murgu” University of Resita, Resita, Romania, ** Faculty of Communication Sciences, Ecological University of Bucharest, Bucharest, Romania
-

SOCIAL – CULTURAL INTERPRETATIVE DIMENSIONS OF HEALTH AND ILLNESS

16. Iulia ENĂCHESCU *, Ileana SĂDEAN **

*Iuliu Hațieganu University of Medicine and Pharmacy Cluj-Napoca,

**National School of Political and Administrative Studies - Bucharest

MIGRATION AND VARIABLES IN THE REMITTANCE BEHAVIOUR AMONG THE SERBIAN VLACH MIGRANTS - A KEY TO IDENTITY DYNAMICS

17. Simona FLOREA

National School of Political and Administrative Studies, Bucharest, Romania

ASPECTS OF DEVIANCE IN MILITARY ENVIRONMENT

18. Elena HURJUI, Marilena TICUSAN

Department of Psychology and Pedagogy, Institution: Spiru Haret University, Braşov, Romania

SUGGESTIONS FOR POSSIBLE MOTIVATIONAL STRATEGIES TO BE IMPLEMENTED IN THE MILITARY ENGLISH COURSES IN THE 21ST CENTURY CLASSROOM

19. Luiza KRAFT, Ana-Maria CHISEGA-NEGRILA, Diana TUTUIANU

Staff and Command Faculty, "Carol I" National Defense University, Bucharest, Romania

THE EVALUATION OF PSYCHOSOCIAL RELATIONS IN NEUROPSYCHIATRIC REHABILITATION CENTERS

20. Aurelia MORARU

Psychosociology Faculty, "Andrei Saguna" Constanta University, Romania

CHANGE AGENTS ACTING VIRAL

21. Romulus OPRICA

National School for Political and Administrative Studies

THE ROLE OF PROFESSIONAL TRAINING PROGRAMS IN CAREER DEVELOPMENT - EMPIRICAL RESEARCH

22. Gabriela Carmen OPROIU, Nicoleta LIŢOIU

Associated Professor PhD., Teacher Training Department, University Politehnica of Bucharest, Romania

EMOTIONAL ABUSE - DEPRESSIVE INDEX IN SCHOOL ENVIRONMENT

23. Maria Dorina PASCA

University of Medicine and Pharmacy Targu Mures, Romania

- EVIDENCES OF THE EXTERNAL VALIDITY OF A TESTS BATTERY USED DURING THE PSYCHOLOGICAL ASSISTANCE TO OFFICERS SPECIAL TRAINING COURSES*
- 24. Ghoerghe PERTEA, Constantin Edmond CRACSNER**
* Faculty of Psychology, Ecological University of Bucharest, Romania
-
- INDIA'S MILITARY ACQUISITION POLICY, BETWEEN IMPROVISATION AND THE PURSUIT OF PRESTIGE*
- 25. Silviu PETRE**
National School of Political Science and Public Administration, Bucharest, Romania
-
- THE IMPORTANCE OF COMPUTERS IN THE LIFE OF TEENAGERS*
- 26. Mihaela SANDU*, Mihaela RUS****
"Andrei Şaguna" University, Constanta, Romania, **"Ovidius" University, Constanta, Romania
-
- CULTURAL – SYMBOLIC DIMENSION OF NON – REIMBURSABLE FINANCING*
- 27. Ileana SĂDEAN**
National School of Political and Administrative Studies – Bucharest, Romania
-
- TEENAGE MOTHERHOOD. A CASE STUDY*
- 28. Aurora SIMIGIU**
University of Bucharest, Faculty of Psychology and Sciences Educaţiei, Romania
-
- META-STEREOTYPES CONCERNING TEEN PREGNANCY*
- 29. Aurora SIMIGIU*, Ramona HENTER****
*Faculty of Psychology and Educational Sciences, University of Bucharest, Bucharest, Romania, **Faculty of Psychology and Educational Sciences, University "Transilvania" from Brasov, Romania
-
- TRANSPARENCY OF THE ADMINISTRATIVE ACT AND THE CITIZEN RIGHTS*
- 30. Adrian Dumitru SOLOMON*, Gherasim Solovestru DOMIDE****
National School of Political and Administrative Studies, Bucharest, Romania **Technical University Cluj-Napoca, North University Center, Baia Mare, Romania
-
- DEFENSE MECHANISMS IN ADJUSTING ORGANIZATIONAL STRESS IN THE MILITARY FIELD*
- 31. Marilena TICUŞAN, Elena HURJUI**
Department of Psychology and Pedagogy, Institution: Spiru Haret University, Braşov, Romania
-

INNOVATION AND ORIGINALITY OF FEUERSTEIN METHOD

32. Otilia Anca TODOR

Faculty of Psychology and Pedagogy, Spiru Haret University, Brasov, Romania

FEUERSTEIN INSTRUMENTAL ENRICHMENT PROGRAM

- instrumental learning method -

33. Otilia Anca TODOR

Faculty of Psychology and Pedagogy, Spiru Haret University, Brasov, Romania

BUILDING AN END-OF-COURSE SURVEY – AN EFFICIENT MEANS OF ENSURING QUALITY

34. Diana TUTUIANU, Ana-Maria CHISEGA-NEGRILA, Luiza KRAFT

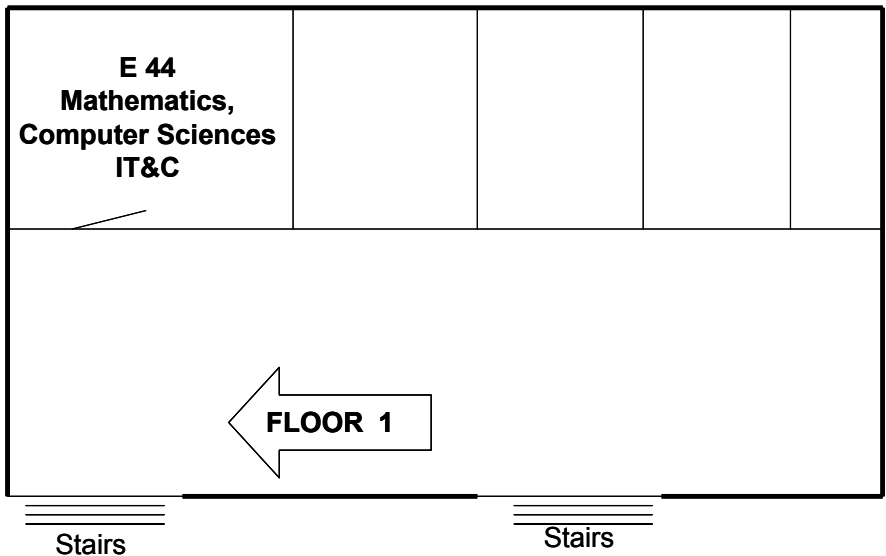
Staff and Command Faculty, "Carol I" National Defense University, Bucharest, Romania

35. LUDOTHERAPY FOR RECOVERING CHILDREN'S NEUROMOTOR DYSFUNCTIONS

Ioana LEPĂDATU*, Rozalia DREGHICIU**

*Spiru Haret University, ioanalepadatu@yahoo.com, str. Turnului 7, Braşov, Romania, **Centrul Ansberg dreghiciurozalia@yahoo.com, Alba Iulia, Romania

**3. MATHEMATICS, COMPUTER SCIENCE,
IT&C
Room E44**



MODERATORS:

➤ **Cristina Sanda CISMASIU**

➤ **Gheorghe RADU**

INVITED PAPER

STUDY OF A NONLINEAR DYNAMIC SYSTEM OF RAYLEIGH VAN DER POL TYPE, APPLIED IN THE STUDY OF AEROELASTIC

1. *FLUTHER*

Mircea LUPU

Transylvania University of Brasov, Romania, Corresponding member of the Academy of Romanian Scientists

DESIGNING AND AUTOMATION OF A DATABASE WITH TECHNICAL SPECIFICATIONS FOR ACQUISITION

2. **Mariana BARBARESSO**

Military Equipment and Technologies Research Agency, Bucharest, Romania

ABOUT A PAIR LINEAR POSITIVE OPERATORS ASSOCIATED WITH BLEIMANN-BUTZER-HAHN OPERATOR

3. **Cristina Sanda CISMASIU**

TRANSILVANIA University of Brasov, Romania

SECURING ZRP – A HYBRID AD HOC ROUTING PROTOCOL

4. **Ionut CONSTANTIN, Mihai-Lica PURA**

Faculty of Military Electronic and Information Systems, Military Technical Academy, Bucharest, Romania

HIGH-FREQUENCY WAVES. THE EQUATION OF THE DISPLACEMENT VECTOR.

5. **Mihaela DUMITRACHE, Camelia GHELDIU**

Faculty of Mathematics and Computer Science, University of Pitesti, Pitesti, Romania

AN ATTEMPT TO STANDARDIZE THE COMMUNICATION SOFTWARE OF NEW KNOWLEDGE

6. **Ioan MAXIM*, Tiberiu SOCACIU ****

* Faculty of Educational Sciences, „Ștefan cel Mare” University, Suceava, Romania, ** Faculty of Economics and Public Administration, „Ștefan cel Mare” University, Suceava, Romania

UPGRADING MOBILE NETWORK USING FUZZY LOGIC METHODS

Catalin NEAMTU*, **Pavel CAMPAN***, **Horia POPESCU***,
Bogdan GAVRILOAIA**

8. *Faculty of Electronics, Communications and Computers, University of Pitesti, Pitesti, Romania, **Faculty of Electronics, Telecommunications and Information Technology, "Politehnica" University of Bucharest, Bucharest, Romania
-

MICROWAVE THERMAL EFFECT EVALUATED ON A GENERIC MODEL OF THYROID GLAND

Horia POPESCU*, **Catalin NEAMTU***, **Georgiana ANGHEL***,
Radu VIZIREANU**, **Mariuca - Roxana GAVRILOAIA*****

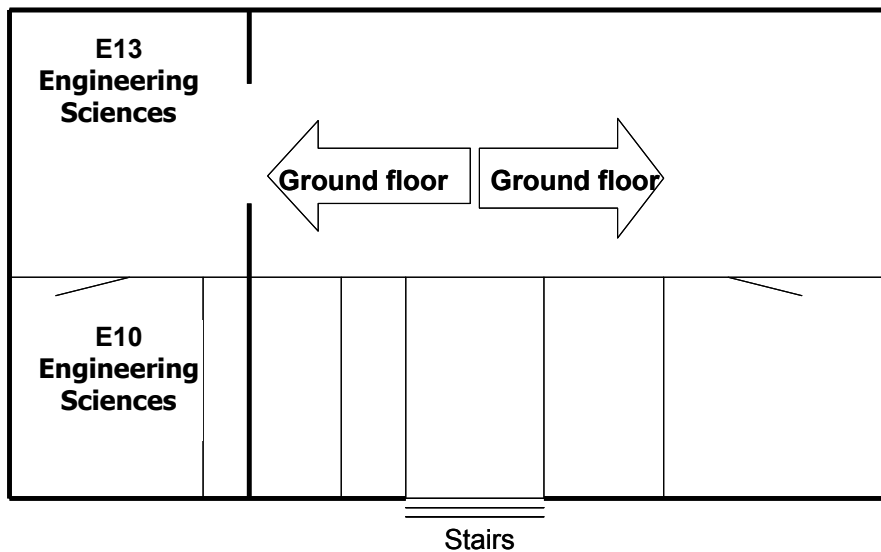
9. *Faculty of Electronics, Communications and Computers, University of Pitesti, Pitesti, Romania, **Faculty of Electronics, Telecommunications and Information Technology, "Politehnica" University of Bucharest, Bucharest, Romania, ***Faculty of Pharmacy, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
-

PARALLEL ITERATIVE ALGORITHM FOR SOLVING POISSON'S EQUATION

10. **Ioan POPOVICIU**

"Mircea cel Batran" Naval Academy, Constanta, Romania,

4. ENGINEERING SCIENCES
Room E 13, E10



**4.1 ELECTRICAL AND ELECTRONICAL
ENGINEERING. RENEWABLE ENERGY AND
ENVIRONMENT
Room E10**

MODERATORS:

- **Petre Lucian OGRUTAN**
- **Liliana Ecaterina MIRON**

- ASPECTS REGARDING ELECTROMAGNETIC FIELD PROTECTION*

1. Lia Elena ACIU, Petre Lucian OGRUTAN
Electrical Engineering and Computer Science, Transilvania University of
Brasov, Romania

- COMPARISON OF ELECTRIC MOTORS USED FOR ELECTRIC
VEHICLES PROPULSION*

2. Adrian BĂLȚĂȚANU, Leonard Marin FLOREA
Faculty of Electrical Engineering, University Politehnica of Bucharest,
Romania

- ENVIRONMENTAL INFORMATION SYSTEMS: SOLUTIONS AND
EMERGING CHALLENGES FOR MODERN STRATEGIC
DEVELOPMENT OF ROMANIAN LOCAL COMMUNITIES*

3. Bogdan CIORUȚA, Mirela COMAN, Vlad MATEȘAN
Mineral Resources and Environment Faculty, North University Centre of
Baia Mare, Tehnical University of Cluj-Napoca, Romania

- CONSIDERATIONS REGARDING THE LAST 3-5 YEARS HYDRO
METEOROLOGICAL CONDITIONS FROM THE BAIJA MARE AREA*

4. Bogdan CIORUȚA, Mirela COMAN, Alin CIORUȚA
Mineral Resources and Environment Faculty, North University Centre of
Baia Mare Tehnical University of Cluj-Napoca, Romania

- MICROCONTROLLER BASED SYSTEM FOR ACCELERATED
RELIABILITY TESTS FOR ELECTRONIC EQUIPMENT*

5. Petre Lucian OGRUTAN, Lia Elena ACIU
Electrical Engineering and Computer Science Faculty, Transilvania
University of Brasov, Romania

- QUANTITATIVE EVALUATION OF IDENTITY BASED
CRYPTOGRAPHY IN AN AUTHENTICATION SCENARIO*

6. Mihai-Lica PURA
Faculty of Military Electronic and Information Systems, Military
Technical Academy, Bucharest, Romania

OBSERVED WIND CLIMAT OF REPUBLIC OF MOLDOVA

7. RACHIER Vasile

Energy Faculty, Technical University of Moldova, Chisinau, Moldova

8. AIR SHOCK WAVE VELOCITY ANALYZE OF EXPERIMENTAL EQUIPMENT FOR NUTS HARVESTING IN SMALL FARMS

Daniela ROȘCA, Adrian ROȘCA

SOME CONSIDERATIONS REGARDING THE DIAGNOSIS OF THE THREE-PHASE SQUIRREL-CAGE INDUCTION MOTOR COMPONENTS

9. Ioan Călin ROȘCA *, Melania FILIP**

*Mechanical Engineering Faculty, Transilvania University of Brasov, Romania, ** "Mircea Cristea" College, Brasov, Romania

MESUREMENTS OF ELECTRICAL AND MAGNETIC FIELDS ON BOARD CONTAINER SHIPS

10. Gheorghe SAMOILESCU*, Serghei RADU, Camelia CIOBANU***

**"Mircea cel Batran" Naval Academy, Constanta, Romania,

** "Barklav" Mar. Ag., Constanta, Romania

THE IMPORTANCE OF DEVELOPING SKILLS IN THE FIELD OF RENEWABLE ENERGY RESOURCES

11. Gheorghe SAMOILESCU*, Camelia CIOBANU*, Alina BARBU*

**"Mircea cel Batran" Naval Academy, Constanta, Romania

MEANS OF EXTENDING VISION FROM VISIBLE TO INFRARED SPECTRUM AND PRACTICAL IMPLEMENTATION

12. Constantin STRIMBU*, Eduard LUCHIAN**

*Academia Fortelor Aeriene "Henri Coanda", Brasov, Romania,

**Facultatea de Electronica, Telecomunicatii si Tehnologie Informatiei, Universitatea Tehnica, Cluj-Napoca, Romania

MULTI-RAMP FUEL INJECTION SYSTEM AUTOMATIC CONTROL

13. Alexandru-Nicolae TUDOSIE

Electrical, Power System and Aerospace Engineering Department, Faculty of Electrical Engineering, University of Craiova, Romania

COMPLEX CONTROL SYSTEM FOR A JET ENGINE WITH AFTERBURNING AND MULTI-RAMP FUEL SYSTEM

14. Alexandru-Nicolae TUDOSIE

Electrical, Power System and Aerospace Engineering Department, Faculty of Electrical Engineering, University of Craiova, Romania

IMAGE FUSION BASED ON WAVELET TRANSFORM

15. Petrică TURTOL, Nicolae GUZULESCU, Daniel ȚURCANU

Military Equipment and Technology Research Agency

REAL-LIFE RELIABILITY AND RADIO FREQUENCY IMMUNITY TEST LIMITS

16. Corneliu URSACHI, Elena HELEREA

Transilvania University of Brasov, 500036, Romania

4.2 MECHANICAL ENGINEERING MATERIALS AND TECHNOLOGY

Room E13

MODERATORS:

➤ **Lavinia Irinel GAVRILĂ**

*INVESTIGATION OF THE POSSIBILITIES TO IMPROVE THE
DYNAMIC PERFORMANCES OF DAC 2.65 FAEG LIGHT OFF-ROAD
ARTICULATED VEHICLE*

1.

Cornel ARAMĂ*, **Andreea ARAMĂ****

*"Henri Coandă" Air Force Academy, Brasov, Romania, **freelancer

*A STUDY ON FATIGUE WEAR CRACKS OF A 40Cr130 COATING IN
DIFFERENT LUBRICATION CONDITIONS*

2.

Gică Narcis BĂSESCU, **Ionuț Vasile CRÎȘMARU**,

Carmen PAPATOIU BINIUC, **Paulin Constantin**,

Marian Vasile LOZNEANU, **Corneliu MUNTEANU**

"Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical
Engineering, Iasi, Romania

STRUCTURAL, MORPHOLOGICAL AND ADHERENCE

*ASSESSMENT OF A 40Cr130 COATING DEPOSITED IN ELECTRIC
ARC*

3.

Gică Narcis BĂSESCU, **Ionuț Vasile CRÎȘMARU**,

Carmen PAPATOIU BINIUC, **Paulin Constantin**,

Marian Vasile LOZNEANU, **Corneliu MUNTEANU**

"Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical
Engineering, Iasi, Romania

A STUDY ON FLUE GAS CORROSION AND WATER VAPORS

*SORPTION ON A ZrO₂/20%Y₂O₃ PLASMA SPRAYED COATING FOR
TURBINE BLADES APPLICATION*

4.

Ionuț Vasile CRÎȘMARU, **Geanina Laura PINTILEI**,

Carmen PAPATOIU BINIUC, **Ionel IVANCU**,

Gică Narcis BĂSESCU, **Corneliu MUNTEANU**

"Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical
Engineering, Iasi, Romania

A STUDY ON THE ENHANCED PROPERTIES OF A ZrO₂/20%Y₂O₃ CERAMIC COATING BY THERMAL TREATMENT FOR TURBINE BLADES APPLICATION

5. **Ionuț Vasile CRÎȘMARU, Gică Narcis BĂSESCU, Carmen PAPATOIU BINIUC, Ionel IVANCU, Geanina Laura PINTILEI, Corneliu MUNTEANU**
“Gheorghe Asachi” Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania
-

OPTIMIZING TOP PISTON RING IN IC ENGINES FOR HIGH SEALING PERFORMANCE CONCOMITANT TO IMPORTANTLY REDUCED FRICTION, WEAR, OIL CONSUMPTION AND HARMFUL EMISSIONS

6. **Adina C. CUCU*, Carol CSATLÓS****
* Diplomat Eng., Research Scientist, European M.Sc., PhD student, TRANSILVANIA U. of Brasov, Romania, ** Diplomat Eng., Ph D, Univ. Professor, PhD scientific advisor TRANSILVANIA U. of Brasov, Romania.
-

IMPROVING THE EXPERIMENT PROCESS BY USING VIRTUAL LABORATORY IN THE EDUCATIONAL PROCESS

7. **Lavinia-Irinel GAVRILĂ**
“Henri Coandă” Air Force Academy, Brașov, Romania
-

COMPATIBILITY ANALYSIS OF THE OPTICAL SYSTEMS CHARACTERISTICS USED IN IMAGE FUSION

8. **Niculae GUZULESCU, Petrica TURTOI, Cornel PLESA**
Military Equipment and Technology Research Agency, Bucharest, Romania.
-

EXPERIMENTAL RESEARCH ON THE SUPERCHARGING OF THE COMPRESSION IGNITION ENGINES WITH PRESSURE WAVE COMPRESSOR DRIVEN BY ELECTRIC MOTOR

9. **Cristian-Ioan LEAHU, Lucian-Cătălin ROMAN, Sebastian RADU, Marton IAKAB-PETER**
Faculty of Mechanical Engineering, Transilvania University of Brasov, Brasov, Romania
-

THE DESCRIPTION OF METALIC LAYERS THROUGH SENSOR – SURFACE INTERACTION

10. **Laura LELUȚIU*, Marius Dan BENȚA*, Adina AGACHE**, Daniel ISĂILĂ***
*Transilvania University of Brasov, ** Technical College of Transport Brasov
-

-
11. *DESIGN METHOD FOR ELASTIC SYSTEMS USED IN THE CONSTRUCTION OF THE SMALL AND MEDIUM CALIBER ANTI-AIRCRAFT GUNS*
Doru LUCULESCU
 ”Henri Coandă” Air Force Academy, Brasov, România.
-
12. *DUPLEX STRUCTURES, CERAMIC, MICROSTRUCTURED, ON THE BASIS OF PARTIALLY STABILIZED ZIRCONIA WITH CERIUM OXIDE*
Victor MANOLIU*, **Elvira ALEXANDRESCU****,
Adriana STEFAN*, **Gheorghe IONESCU***,
Alexandru MIHAILESCU*
 *National Institute for Aerospace Research „Elie Carafoli”, Bucharest, Romania, **National Romanian Research and Development Institute for Gas Turbines, Bucharest, Romania
-
13. *PILOTS’ PERFORMANCES IMPROVING IN DUAL STREAM ENVIRONMENT: VERTICAL COMPONENT OF VIRTUAL FLIGHT AND PHYSIOLOGICAL PROFILE*
Pericle Gabriel MATEI*, **Constantin ROTARU***,
Thomas GUDET**, **Amelia SANDU***
 * Faculty of Mechatronics and Armament Integrated Systems, Military Technical Academy, Bucharest, Romania, ** Mechanical Engineering Faculty, “Paul Sabatier” University, Toulouse, France
-
14. *RESEARCH ON SUPER – GLUED SURFACES OF THE PLATES SINTERED*
Radu Mihai MAZILU
 Faculty Materials Science and Engineering , “Transilvania” University, Brasov - Romania
-
15. *PROCEDURE USING GMAW-STT APPLIED AT MAIN PIPELINES WELDING*
Radu Mihai MAZILU
 Faculty Materials Science and Engineering , “Transilvania” University, Brasov - Romania
-
16. *NUMERICAL MODEL OF SUSPENDING SOLID PARTICLES BY MEANS OF MIXING RADIAL TURBINES*
Mihai MIHAILA-ANDRES*, **Roxana NEDELICU***,
Valdenir GUIMARÃES **
 * Faculty of Mechatronics and Integrated Armament Systems, Military Technical Academy, Bucharest, ROMANIA, ** Mechanical Engineering Faculty, Paul Sabatier University, Toulouse, FRANCE
-
17. *SATELLITES MOVEMENTS DECAY*
Radu-Catalin MIHALACHE
 Military Technical Academy, Bucharest, Romania
-

MATHEMATICAL MODELS USED TO STUDY THE AIRCRAFT WAKE VORTICES

18. **Cristian-Emil MOLDOVEANU***, **Pamfil ȘOMOIAG***,
Pierre FERRIER**, **Héloïse DAUDÉ****
*Military Technical Academy, Bucharest Romania, ** University Paul Sabatier, Toulouse, France
-

A CONCISE ANALYSIS ON COMPOSITES MACHINING TECHNOLOGIES

19. **Roxana NEDELICU***, **Mihai MIHAILĂ-ANDRES***,
Pierre GIBOIN**
*Faculty of Mechatronics and Integrated Armament Systems, Military Technical Academy, Bucharest, Romania, ** Mechanical Engineering Faculty, Paul Sabatier University, Toulouse, France
-

ANALYSIS SOLICITATIONS INJECTION SYSTEMS OF HIGH AND VERY HIGH PRESSURE USING MULTI DOMAIN SIMULATION

20. **Lucian-Cătălin ROMAN**, **Doru TALABĂ**, **Horia ABĂITĂNCI**,
Cristian-Ioan LEAHU, **Sebastian RADU**
* Faculty of Mechanical Engineering, Transilvania University of Brasov, Brasov, Romania
-

AEROENGINE COMBUSTION INSTABILITY – AN ANALYTICAL EVALUATION

21. **Constantin ROTARU***, **Pericle Gabriel MATEI***, **Paul RENARD****
*Faculty of Mechatronics and Armament Integrated Systems, Military Technical Academy, Bucharest, Romania, ** Mechanical Engineering Faculty, “Paul Sabatier “ University, Toulouse, France
-

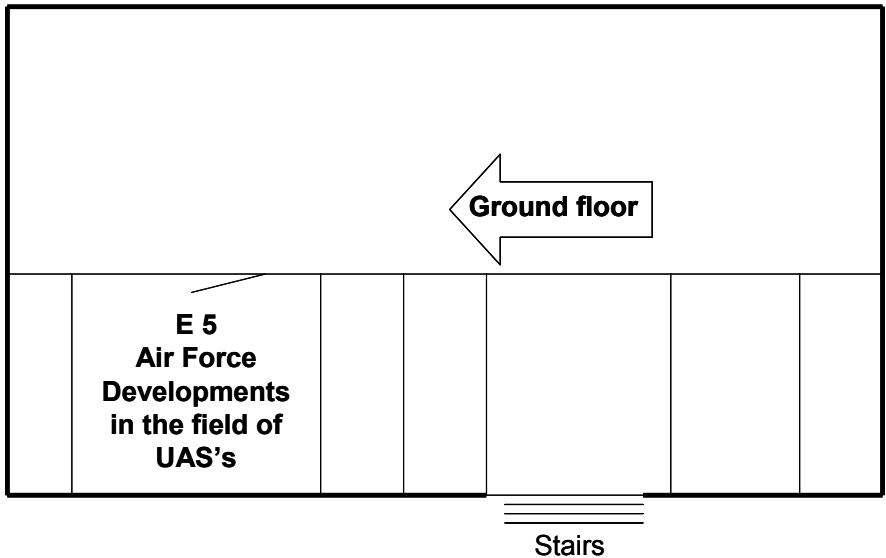
FIBER-REINFORCED POLYMER COMPOSITES AS STRUCTURAL MATERIALS FOR AERONAUTICS

22. **Fulga TANASA**, **Madalina ZANOAGA**
”Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania
-

NEW THERMOPLASTIC POLYAMIDE-CLAY HYBRID NANOCOMPOSITES FOR HI-TECH APPLICATIONS

23. **Madalina ZANOAGA**, **Raluca DARIE**, **Cristian GRIGORAS**,
Fulga TANASA
“Petru Poni” Institute of Macromolecular Chemistry, 41A Aleea Gr. Ghica Vodă, 700487, Iași, Romania
-

**5. AIR FORCE, DEVELOPMENTS IN THE
FIELD OF UAS's
Room E5**



MODERATORS:

- **Melih Cemal KUSHAN**
- **Ovidiu MOȘOIU**
- **Cristian-Emil MOLDOVEANU**

*COMMAND AND CONTROL SYSTEM BASED ON ARDUPILOT
MEGA 1.0 AUTOPILOT*

1. **Adrian ALEXEI**
Agentia de Cercetare pentru Tehnică si Tehnologii Militare, Bucuresti,
România
-

*THE HIERARCHICAL INFORMATION MODEL WITHIN
INFORMATIONAL SOCIETY*

2. **Ion BĂLĂCEANU**
“Center for Analysis and Security Studies” Association, Bucharest,
Romania
-

THOUGHTS ON UAV OPERATOR'S SIMULATOR TRAINING

3. **Tamás BALI**
Training expert, HDF 86. Szolnok Helicopter Base, Chief of Flight
Training, Hungary
-

THE BEGINNING OF RADARS IN HUNGARY

4. **Gabor BERKOVICS, Zoltan KRAJNC**
Faculty of Military Science and Officer Training, University of Public
Service, Budapest, Hungary
-

*THE ROLE OF THE HUMAN FACTOR IN MAINTAINING THE
DESIRED LEVEL OF AIR MISSION EXECUTION SAFETY*

5. **Jarosław KOZUBA**
Faculty of National Defence and Logistic, Polish Air Force Academy,
Poland
-

*THE RELATIONSHIP BETWEEN THE EUROPEAN STATES AIR
FORCE AND THEIR GEOPOLITICAL POSITIONS*

6. **Melih Cemal KUSHAN**
Faculty of Engineering and Architecture, Eskisehir Osmangazi
University, Eskisehir , Turkey
-

*COST REDUCTION AN AIRCRAFT ENGINE PART OF TURBINE
DISC MANUFACTURING*

7. **Melih Cemal KUSHAN*, Eyup AYVA*, Sinem UZGUR**,
Engin GODE*****
*Faculty of Engineering and Architecture, Eskisehir Osmangazi
University, Eskisehir , Turkey, **Department of Materials Science and
Engineering, Ondokuz Mayıs University, Samsun, Turkey, *** Aircraft
Maintenance 1st Airforce Command, Eskisehir, Turkey
-

RUNNING UNMANNED AERIAL VEHICLES IN HUNGARY

8. **Lénárd MÉHES**
National University Of Public Service Faculty Of Military Sciences
And Officer Training, Hunagry
-
9. **Liliana Ecaterina MIRON***, **Dan SORA****, **Mihai MIRON*****
”Henri Coada” Air Force Academy, Brasov, Romania,** ,
Transilvania University of Brasov, Romania
-
10. **Cristian-Emil MOLDOVEANU***, **Pamfil ŞOMOIAG***,
Pierre FERRIER**, **Héloïse DAUDÉ****
*Military Technical Academy, Bucharest Romania, ** University Paul
Sabatier, Toulouse, France
-
11. **Ovidiu MOŞOIU**
Faculty of Aeroanautical Management, „Henri Coandă” Air Force
Academy, Brasov, Romania
-
12. **Zoltán OZOLI**
Faculty of Military Sciences and Officer Training, National University
of Public Service, Budapest, Hungary
-
13. **Marius RĂDULESCU***, **Vasile - Ioan ŞANDRU****
*SC Electromecanica Ploieşti SA, Romania, **, „Henri Coandă” Air
Force Academy, Braşov, Romania
-
14. **Aurélio SANTOS***, **Maria da Luz Madruga Matos***,
José A. P. Morgado*, **João Borges de Sousa****
*Portuguese Air Force Academy Research Center, ** Engineering
School of Porto University, Portugal
-

*DESIGN & PRODUCTION CRITERIA AND AUTHORITY
REQUIREMENTS FOR THE HUNGARIAN DEFENSE FORCES
OPERATED UAS*

15.

Sándor SIMON

Faculty of Military Sciences and Officer Training, National
University of Public Service, Budapest, Hungary

PERSPECTIVE OF AIR DEFENCE

16.

Milan SOPÓCI

Department of Management, Armed Forces Academy of General M. R.
Štefánik in Liptovský Mikuláš, the Slovak Republic

*ANALYSIS OF THE ROBUSTNESS OF THE AUTOMATIC CONTROL
SYSTEMS*

17.

Róbert SZABOLCSI

Faculty of Mechanical and Safety Engineering ‘Bánki Donát’, Óbuda
University, Budapest, Hungary

*ANALYSIS OF ROBUSTNESS OF THE UAV STABILITY
AUGMENTATION SYSTEMS*

18.

Róbert SZABOLCSI

Faculty of Mechanical and Safety Engineering ‘Bánki Donát’, Óbuda
University, Budapest, Hungary

Workshop

**Joi 23.05
17.00-19.00**

W5. Implicații ale dezvoltării personale în proiectarea unei cariere

Mariana CALUSCHI, Magda TUFEANU

Psihologie Educationala, Consiliere Scolara si Vocationala

SALA E 74

W10. Intervenția psihologică și educațională – factor primordial în reintegrarea socială a persoanelor private de libertate

Florin ANTONESCU

Psihologie pentru aparare, ordine publica si siguranta nationala

SALA E 73

Vineri 24.05
10.00-12.00

W8. Evaluarea psihologică pentru obtinerea permisului de armă

Constantin Edmond CRACSNER

Psihologie pentru aparare, ordine publica si siguranta nationala

SALA E 74

W6. Terapie ocupațională – poveste terapeutică

Maria Dorina PAȘCA

Psihologie Educationala, Consiliere Scolara si Vocationala

SALA E 73

W4. Efectul de mobing și impactul asupra organizațiilor românești

Mihaela RUS, Mihaela SANDU

Psihologia Muncii, Transporturilor si Serviciilor

SALA E 72

Vineri 24.05
12.00-14.00

W3. Evaluarea performanțelor angajaților în organizații

Doru DIMA

Psihologia Muncii, Transporturilor si Serviciilor

SALA E 77

W9. Noi abordări în formarea continuă a personalului în lipsa standardelor de competență sau performanță – Managerul de ordine și siguranță publică

Corina Mihaela ZAHARIA

Psihologie pentru aparare, ordine publica si siguranta nationala

SALA E 80

Vineri 24.05
15.00-17.00

W2. Evaluarea motivației și rolul acesteia în context organizațional

Cătălin Marius GHERASIM

Psihologia Muncii, Transporturilor și Serviciilor

SALA E 72

W7. Dezvoltarea carierei în contextul anului 2013

Gabriel CHICIOREANU

Psihologie Educationala, Consiliere Scolara și Vocationala

SALA E 73

Vineri 24.05
17.00-19.00

W1. Consilierea de cuplu în abordare adleriană

Cătălin Marius GHERASIM

Psihologie clinică și Psihoterapie

SALA E 72

W11. Antrenamentul emoțional în negociere cu ajutorul aparatelor bio feed-back

Teodor ȘERBĂNESCU, Maria-Letiția ROMAN

Psihologie pentru apărare, ordine publică și siguranța națională

SALA E 80

The event is organized by “Henri Coanda” Air Force Academy in collaboration with “General M.R. Stefanik” Armed Forces Academy.

We thank the following institutions that has joined in our efforts



**BANCA COMERCIALA
ROMANA**



**CONSILIUL JUDETEAN
BRASOV**



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