

„HENRI COANDĂ”
AIR FORCE ACADEMY



„GENERAL M. R. STEFANIK”
ARMED FORCES ACADEMY



“Henri Coandă”

ASSOCIATION FOR RESEARCH AND EDUCATION



CONFERENCE GUIDE AFASES 2015

THE 17-th INTERNATIONAL CONFERENCE

20th “Henri Coandă”

Air Force Academy Anniversary

1995-2015

28 - 30 May, 2015

1
Brasov-ROMANIA



Conference Agenda

THURSDAY, May 28, 2015

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

FRIDAY, May 29, 2015

08 ⁰⁰ – 08 ³⁰	Welcoming and registration
08 ³⁰ - 10 ³⁰	Opening of the session - Opening Speeches, Keynote speakers presentations - Organizational specification
10 ³⁰ – 10 ⁴⁵	Photo Session
10 ⁴⁵ – 11 ³⁰	UAV Display & Demonstration
11 ³⁰ – 15 ⁰⁰	Paper presentation on sections (I)
15 ⁰⁰ - 16 ⁰⁰	Lunch Break
16 ⁰⁰ - 19 ⁰⁰	Paper presentation on sections (II)
20 ⁰⁰ - 24 ⁰⁰	Conference dinner

Saturday May 30, 2015

9 ⁰⁰ - 14 ⁰⁰	Sightseeing activities. Visit to Bran Castle
14 ⁰⁰	Check-out Departure of participants



The Session Sections

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2. MANAGEMENT	E13	14
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4. APLIED MATHEMATICS, COMPUTER SCIENCE, IT&C	E44	28
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International Scientific Committee

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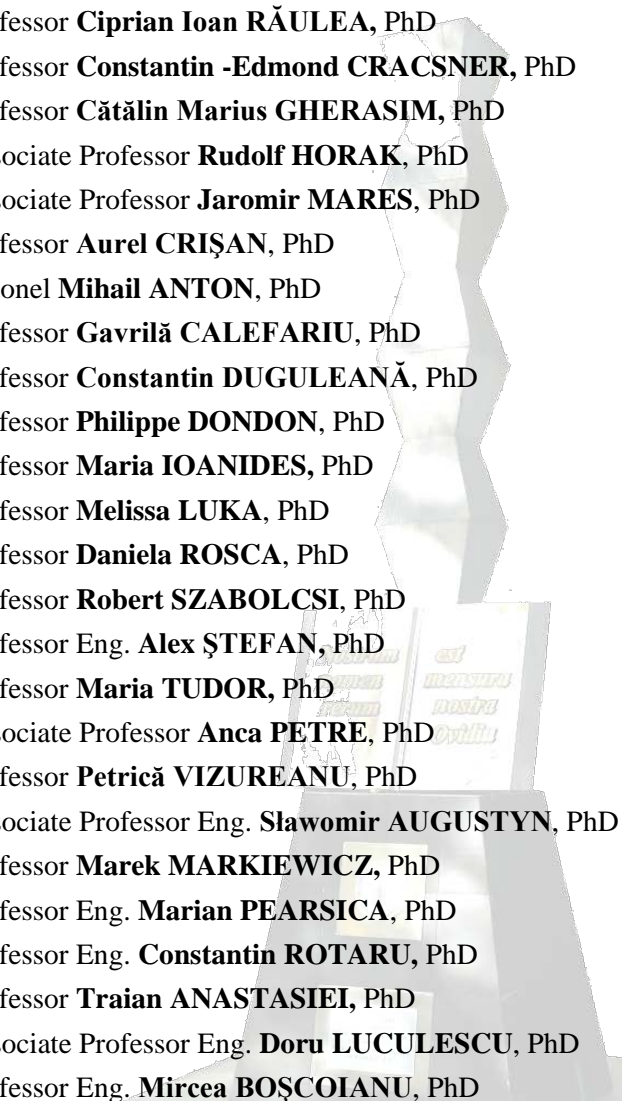
Professor **Mircea LUPU**, PhD

Professor **Corneliu UDREA**, PhD

Professor **Victor Valeriu PATRICIU**, PhD

Professor **Ștefan-Gheorghe PENTIUC**, PhD

Professor **Răzvan - Lucian ANDRONIC**, PhD



Professor **Ciprian Ioan RĂULEA**, PhD
Professor **Constantin -Edmond CRACSNER**, PhD
Professor **Cătălin Marius GHERASIM**, PhD
Associate Professor **Rudolf HORAK**, PhD
Associate Professor **Jaromir MARES**, PhD
Professor **Aurel CRIȘAN**, PhD
Colonel **Mihail ANTON**, PhD
Professor **Gavrilă CALEFARIU**, PhD
Professor **Constantin DUGULEANĂ**, PhD
Professor **Philippe DONDON**, PhD
Professor **Maria IOANIDES**, PhD
Professor **Melissa LUKA**, PhD
Professor **Daniela ROSCA**, PhD
Professor **Robert SZABOLCSI**, PhD
Professor Eng. **Alex ȘTEFAN**, PhD
Professor **Maria TUDOR**, PhD
Associate Professor **Anca PETRE**, PhD
Professor **Petrică VIZUREANU**, PhD
Associate Professor Eng. **Slawomir AUGUSTYN**, PhD
Professor **Marek MARKIEWICZ**, PhD
Professor Eng. **Marian PEARSICA**, PhD
Professor Eng. **Constantin ROTARU**, PhD
Professor **Traian ANASTASIEI**, PhD
Associate Professor Eng. **Doru LUCULESCU**, PhD
Professor Eng. **Mircea BOȘCOIANU**, PhD

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WO **Marian MIHALACHE**

WO **Sergiu OBREJA**

WO **Daniel CHERCIU**

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Eng. **Mariana GHINDĂOANU**

PLENARY SESSION

AUDITORIUM

Message of Air Flotilla General Vasile BUCINSCHI, PhD

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

Message of Brigadier General Boris ĐURKECH, PhD

Rector of Armed Forces Academy of General Milan Rastislav Štefánik, Slovakia

Message of Brigadier General Ghiță BÂRSAN, PhD

Rector of “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

Message of Marius-Ioan PISO, PhD

President of Romanian Space Agency

Message of Eng. M.Sc. Rosa Elena PINOS NEIRA

Rector of Escuela Superior Politecnica de Chimborazo, Riobamba, Ecuador

Message of Professor Ionel DIDEA, PhD

Rector of University of Pitesti, Romania

Message of Professor Eng. Valentin POPA, PhD

Rector of “Ștefan cel Mare” University, Suceava, Romania

KEYNOTE SPEAKERS

John Andreas OLSEN, PhD

Deputy general director in the Norwegian Ministry of Defence and visiting professor at the Swedish National Defense College, Norway

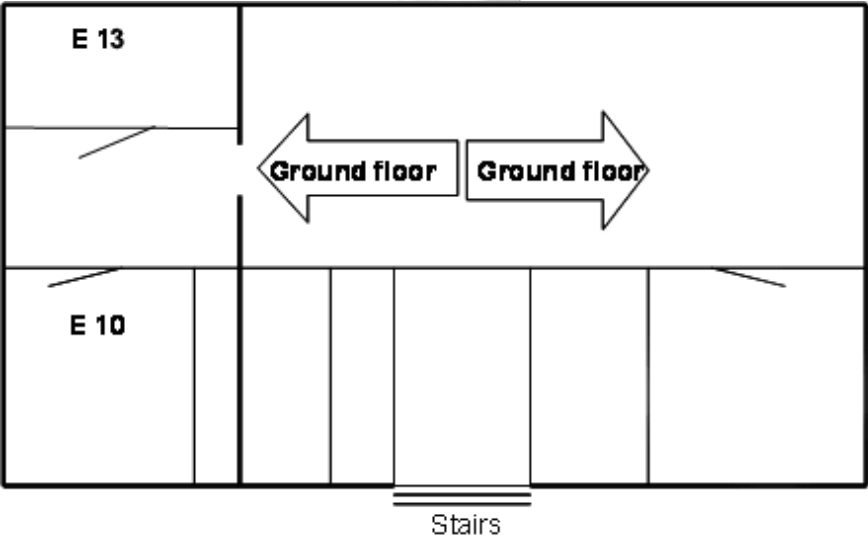
Professor Jacques ABEN, PhD

Directeur général de l’enseignement universitaire Ecoles d’officiers de l’armée de l’air, France

AWARDING CEREMONY

1. AIR FORCE

Conference ROOM E10



1. AIR FORCE

Conference ROOM E10

Moderators:

Róbert SZABOLCSI, PhD

Óbuda University, Budapest, Hungary

Vasile ȘANDRU, PhD

„Henri Coandă” Air Force Academy, Brasov

-
1. ***THE SPIRIT OF DEFENCE AND ITS DETERMINANTS***
Jacques ABEN*, **Julien MALIZARD****
*Dean of the École de l’air, **Senior researcher at the Institut des Hautes études de défense nationale
-
2. ***CONNECTIONS OF AIR POWER***
Traian ANASTASIEI
Faculty of Aeronautical Management, “Henri Coandă” Air Force Academy, Brasov, Romania
-
3. ***EUROPEAN ANTIMISSILE DEFENSE SYSTEM –POST SECOND PHASE IMPLEMENTATION PERSPECTIVE IN THE CONTEXT OF NATO-RUSSIA RELOCATION***
Daniel-Nicolae BĂNICĂ
"Carol I" National Defence University, Bucharest, Romania
-
4. ***HUMAN ERROR – COCKPIT VULNERABILITIES***
Oliver CIUICĂ, Eduard MIHAI
Faculty of Aeronautical Management, “Henri Coandă” Air Force Academy, Brasov, Romania
-
5. ***HUMAN FACTORS CONTRIBUTION TO AVIATION SAFETY***
Iulia-Mădălina DUMITRU*, **Mircea BOȘCOIANU****
* Faculty of Technological Engineering and Industrial Management, Transylvania University of Brasov, Romania, ** Faculty of Aeronautical Management, “Henri Coandă” Air Force Academy, Brasov, Romania
-
6. ***UNMANNED AIR VEHICLES IN ROMANIA. STEPS TO THE FUTURE***
Ion MAGDALENA
Teamnet, Bucharest, Romania
-

NATO BOMBING IN THE FORMER REPUBLIC OF YUGOSLAVIA

7. **Diana MANOLACHE, Ciprian CHIȘ**
"Carol I" National Defence University, Buchareast, Romania
-

FOUNDATION OF THE EARLY PILOTING SCHOOLS IN ROMANIA

8. **Eduard MIHAL, Oliver CIUCĂ**
Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania
-

ECONOMIC COOPERATION AND REVITALIZING THE NATIONAL DEFENSE INDUSTRY, DETERMINANT FACTORS IN STRENGTHNING THE FUNDAMENTAL NATIONAL INTERESTS IN THE EUROPEAN COMMUNITY AND NATO

9. **Ovidiu-Gheorghe MOȘOIU**
Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania
-

INSTRUMENTS FOR THE EVALUATION OF THE AERODYNAMIC PERFORMANCE OF WIND TUNNELS

10. **Vasile PRISACARIU*, Ionică CÎRCIU*, Sebastian POP****
Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania, ** Transylvania University of Brasov
-

SHORAD SOLUTIONS FOR THE AIR FORCES SYSTEMS UP-GRADE

11. **Marius RĂDULESCU*, Vasile ȘANDRU****
*Electromecanica, Ploiești, Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania
-

INTEGRATED MODULAR AVIONICS – FAILURE ANALYSIS

12. **Marius MAGHERCĂ NĂSTASĂ COJOCARIU**
Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania
-

THE INTEROPERABILITY OF THE INTELLIGENCE SYSTEM – A SALIENT PREREQUISITE FOR ACQUIRING INTELLIGENCE COMPATIBILITY

13. **Ilie PĂUN**
"Carol I" National Defence University, Buchareast, Romania
-

NATO STRATEGY TO DEFEAT ENEMY FORCES IN THE HYBRID WAR

14. Daniel ȘTEFĂNESCU

Faculty of Aeronautical Management, “Henri Coandă” Air Force Academy, Brasov, Romania

NIGHT WATCHBIRD UAV SYSTEM: AN EFFECTIVE TOOL IMPROVING FORCE PROTECTION CAPABILITIES IN THE WAR THEATRES

15. Róbert SZABOLCSI

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



2. MANAGEMENT

Conference ROOM E13

Moderators:

Milan SOPÓCI, PhD

Armed Forces Academy of General Milan Rastislav Štefánik, Slovakia

Cătălin CIOACĂ, PhD

„Henri Coandă” Air Force Academy, Brasov

THE CHARACTERISTICS OF THE TERRORIST TARGETS IDENTIFICATION PROCESS

1.

Constantin-Valentin BORDEI

”Carol I” National Defense University, Bucharest, Romania

THE MILITARY AUTHORITY – THE DECISIONAL SUPPORT OF THE MILITARY ADMINISTRATION

2.

Paul-Marian FUSEA

“Carol I” National Defense University, Bucharest, Romania

INSTITUTIONAL GOVERNANCE STRATEGIES OF HUMAN RESOURCES IN THE PUBLIC INSTITUTIONS OF THE REPUBLIC OF ECUADOR

3.

Elena POPOVICI*, Rosa Elena PINOS NEIRA**

*Business Administration Faculty, Escuela Superior Politecnica de Chimborazo, Riobamba, Ecuador **Natural Resources Faculty, Escuela Superior Politecnica de Chimborazo, Riobamba, Ecuador

LOGISTIC DECISION MAKING PROCESS INSIDE THE MILITARY ORGANISATION USING EXPERT SYSTEMS

4.

Marius MILANDRU

Territorial Internal Audit Section No. 5, Braşov

RESEARCH ON CADETS’ PREFERENCES AND REQUIREMENTS REGARDING THE GUIDED PHYSICAL TRAINING AND SPORT ACTIVITY

5.

Mădălin SLĂNICEANU

Faculty of Aeronautic Management, „Henri Coandă” Air Force Academy, Brasov, Romania

**CONCEPTION OF COMPETENCES DEVELOPMENT OF AIR
DEFENCE OF ARMED FORCES**

6. Milan SOPÓCI*, Marek WALANCIK**

*Armed Forces Academy of general M. R. Štefánik, Liptovský Mikuláš, Slovak Republic, **Academy of Business, Dabrowa Górnicza, Poland



3. ENGINEERING SCIENCE

3.1 Electrical and Electronical Engineering

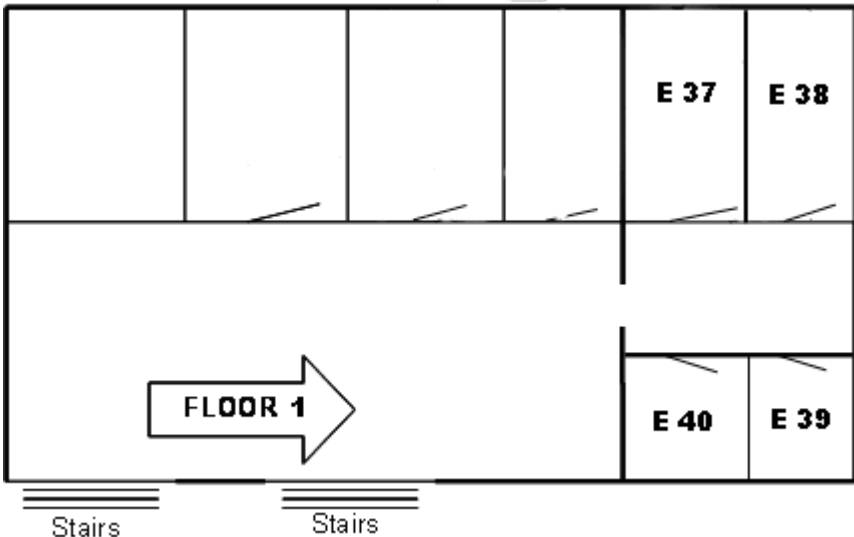
Conference ROOM E38

3.2 Mechanical Engineering. Materials and Technology

Conference ROOM E39

3.3 Renewable Energy and Environment

Conference ROOM E40



3.1 Electrical and Electronical Engineering

Conference ROOM E38

Moderator:

Philippe DONDON , PhD

Université de Bordeaux, IPB, Talence, France, Brasov

EFFECT OF LIGHT DEPENDANT RESISTOR MISMATCHING AND IMPACT OF NON LINEARITY IN A SMALL SCALE SOLAR TRACKING SYSTEM

1.

Philippe DONDON*, **Ecaterina-Liliana MIRON****

*Université de Bordeaux, IPB, Talence, France, ** “Henri Coandă” Air Force Academy, Brasov, Romania

GABOR AND WEBER LOCAL DESCRIPTORS PERFORMANCE IN MULTISPECTRAL EARTH OBSERVATION IMAGE DATA ANALYSIS

2.

Florin-Andrei GEORGESCU*, **Mihai DATCU****, **Dan RĂDUCANU*****

*Military Technical Academy, Bucharest, Romania and “Politechnica” University of Bucharest, Bucharest, Romania, ** “Politechnica” University of Bucharest, Bucharest, Romania and German Aerospace Center (DLR), Oberpfaffenhofen, Germany, *** Military Technical Academy, Bucharest, Romania

FRACTAL ANTENNA WITH HEXAGONAL RESONATORS

3.

Gheorghe MORARIU, **Mihai MIRON**

Electronics & Computers Department, “Transilvania” University, Brasov, Romania

INFLUENCE OF THE INTERCONNECTING CABLES ON EQUIPMENTS ELECTROMAGNETIC EMISSIONS SPECTRUM

4.

Dan STOICA, **Adina BOTEANU**, **Mihai ENACHE**, **Albert PLOȘNIȚĂ**

Information Systems and Communications Test & Evaluation Scientific Research Center, Military Equipment and Technologies Research Agency, Bucharest, Romania

ABOUT POLY-PHASE VOLTAGE RECTIFIERS OPERATION

5. Constantin STRÎMBU

Faculty of Aeronautic Management, "Henri Coandă" Air Force Academy, Brasov, Romania

IMPROVEMENTS METHODS FOR DESIGN OF MULTIFUNCTIONAL REGISTERS WITH DECODED MODE SIGNALS

6.

Mihai TIMIS, Alexandru VALACI, Calin MONOR

Automatic Control and Computer Engineering, "Gh.Asachi", Iasi, Romania

VALIDATION OF SPECTRAL ANALYSIS RESULTS USING PLC IMPLEMENTED AI TECHNIQUES

7.

Grigore VASILIU

Faculty of Automatic Control, Computers, Electrical Engineering and Electronics, "Dunarea de Jos" University, Galati, Romania



3.2 Mechanical Engineering. Materials and Technology

Conference ROOM E39

Moderators:

Fulga TANASA , PhD

„Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Ion DINESCU, PhD

„Henri Coandă” Air Force Academy, Brasov

***ANALYSIS OF THE LIGHT OFF-ROAD VEHICLE ENDOWMENT
POSSIBILITIES IN ORDER TO USE IT FOR AIR FORCE
MISSIONS***

1.

Cornel ARAMĂ*, **Mariana SAVA****, **Lavinia CUCU****

*Faculty of Aeronautical Management, “Henri Coandă” Air Force Academy,
Brasov, Romania, **freelancer

THE NEW VISION IN DESIGNING OF AIRPORT

2.

Slawomir AUGUSTYN, **Bogumił ZNOJEK**

National Defence University Warsaw, Poland

***THE USING OF NANOCOMPOSITE HEATING SYSTEM FOR
AVIATION DESIGNING***

3.

Slawomir AUGUSTYN, **Telesfor-Marek MARKIEWICZ**

National Defence University Warsaw, Poland, Aviation Institute & Air Defence

***SAVING ENERGY ESTIMATION FOR USE OF HOLLOW
ROLLERS IN BEARINGS UTILIZED IN WIND ENERGY
TURBINES***

4.

Bogdan BARABAȘ, **Adriana FLORESCU**, **Sorin BARABAȘ**

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

STRESS DISTRIBUTION FOR A PISTON WITH AN AL_2O_3 TOP LAYER DEPOSITED ON THE PISTON HEADS WHICH ABSORBS GAS PRESSURE

5. **E.S. BÂRCĂ***, **A.G. PLĂIAȘU***, **Mihaela VLADU***, **Marioara ABRUDEANU***, **G. MAHU****, **Corneliu MUNTEANU****

*Pitesti University, Faculty of Mechanics and Technology, Pitesti, Romania,
**Technical University "Gheorghe Asachi" of Iasi, Faculty of Mechanics, Iasi, Romania

ANALYSIS OF FLOW IN CONVERGENT-DIVERGENT ROCKET ENGINE NOZZLE USING COMPUTATIONAL FLUID DYNAMICS

6. **Bogdan-Alexandru BELEGA***, **Trung Duc NGUYEN****

*Military Technical Academy, Bucharest, Romania, **Paul Sabatier University, Toulouse, France

DYNAMIC ANALYSIS OF COMPOSITE WINGS

7. **Bogdan-Alexandru BELEGA**, **Amado ȘTEFAN**

Military Technical Academy, Bucharest, Romania

CHARACTERISTICS OF SLUDGE RESULTED FROM BALL-BEARINGS RECTIFICATION

8. **Ion DINESCU**

Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania

DYNAMIC MECHANICAL ANALYSIS OF AN AIRCRAFT WING WITH EMPHASIS ON VIBRATION MODES CHANGE WITH LOADING

9. **Lica FLORE***, **Albert Arnau CUBILLO****

*Institute for Theoretical & Experimental Analysis of Aeronautical Structures STRAERO, Bucharest, Romania, ** Politehnica University of Bucharest

TRENDS IN IMPLEMENTATION OF RISK MANAGEMENT IN SMEs

10. **Adriana FLORESCU**, **Bogdan BARABAȘ**, **Sorin BARABAȘ**

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

COMPOSITE MULTILAYER STRUCTURES OBTAINED BY EXPLOSIVE METHOD

11. **Ciprian-Marius LARCO, Ștefan-Mircea MUSTAȚĂ, Radu-Călin PAHONIE**
Faculty of Mechatronics and Integrated Armament Systems , Military Technical Academy, Bucharest, Romania
-

KINEMATICS OF THE LANDING GEAR SYSTEMS OF AIRCRAFT

12. **Doru LUCULESCU, Vasile PRISACARIU**
Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania
-

EXPERIMENTAL SETUP FOR STUDYING PROPERTIES OF POWER GASES

13. **Tomáš LUKÁČ, Vladimír HORÁK, Linh Do DUC, Dalibor ROZEHNAL**
Faculty of Military Technology, University of Defence, Brno, Czech Republic
-

THERMO-GAS DYNAMIC ANALYSIS OF UPPER-STAGE ROCKET ENGINE NOZZLE

14. **Mihai MIHAILA-ANDRES, Paul Virgil ROSU**
Institute for Theoretical & Experimental Analysis of Aeronautical Structures STRAERO, Bucharest, Romania
-

DESIGN OF A LSA AIRCRAFT USING ADVANCED SOFTWARE

15. **Angi NORBERT, Razvan UDROIU**
Technological Engineering and Industrial Management Faculty, University of Transilvania, Brasov, Romania
-

THE BEHAVIOR OF AN Al_2O_3 COATING DEPOSITED BY PLASMA ELECTROLYTIC OXIDATION ON ALUMINUM ALLOYS AT HIGH TEMPERATURE REGIME

16. **Geanina-Laura PINTILEI*, Marioara ABRUDEANU*, Corneliu MUNTEANU**, Ionuț-Vasile CRISMARU**, Mihaela VLADU*, Iustin POPA***
* Faculty of Mechanics and Technology , Pitesti University, Romania,
**"Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania
-

THE INFLUENCE OF Al_2O_3 DEPOSITED COATING BY PLASMA ELECTROLYTIC OXIDATION TO THE BEHAVIOR OF AN ALUMINUM ALLOY SUBJECTED TO MECHANICAL SHOCK

17. **Geanina-Laura PINTILEI***, **Marioara ABRUDEANU***, **Cornelii MUNTEANU****, **Ionuț-Vasile CRISMARU****, **Iustin POPA***, **Mihaela VLADU***

* Faculty of Mechanics and Technology , Pitesti University, , Pitesti, Romania,
**"Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania

ROBOTIC GRIPPERS FOR HANDLING BOOKS IN LIBRARIES

18. **Corina-Monica POP**, **Gheorghe-Leonte MOGAN**

Mechanical Engineering Faculty, Transilvania University of Brasov, Romania

SPECIFIC TESTS FOR COMPOSITE STEERING COLUMNS

19. **Lucian-Eugen RAD***, **Thomas HEITZ****, **Anghel CHIRU***

*Faculty of Mechanical Engineering, Transilvania University of Brasov, Romania,
** Thyssenkrupp Presta, Eschen, Liechtenstein

NONLINEAR EFFECTS OF THE SIDEWASH GRADIENT ON AN AIRPLANE VERTICAL TAIL

20. **Constantin ROTARU***, **Ionică CÎRCIU***, **Raluca-Ioana EDU****, **Oliver CIUICĂ***, **Eduard MIHAI***

*Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania, **Faculty of Mechatronics and Integrated Armament Systems, Military Technical Academy, Bucharest, Romania

COUPLED TRANSIENT ANALYSIS OF A UAV COMPOSITE WING

21. **Amado ȘTEFAN**, **Ciprian LARCO**, **Radu-Călin PAHONIE**, **Ionut NICOLAESCU**

Faculty of Mecatronics and Integrated Armament Systems, Military Technical Academy, Bucharest, Romania

CALCULATING TECHNICAL SCATTERING FULL ERROR FOR EXTERNAL SUSPENDED BOMBS AT FREE RELEASE

22. **Stoyko STOYKOV***, **Milen ATANASOV****

*Institute for Research and Innovation, National Military University, Veliko Tarnovo, Bulgaria, **Aviation Faculty, National Military University, Dolna Mitropolia, Bulgaria

PROJECTILE'S DRAG COEFFICIENT EVALUATION FOR SMALL FINITE DIFFERENCES OF HIS GEOMETRICAL DIMENSIONS USING ANALYTICAL METHODS

23. **George SURDU****, **Ioan VEDINAȘ***, **Georgică SLĂMNOIU****,
Șomoiaș PAMFIL*
*Military Technical Academy, Romania, **Research Center for Navy, Constanța, Romania
-

CONDUCTIVE THERMOPLASTIC POLYMER NANOCOMPOSITES WITH ULTRALOW PERCOLATION THRESHOLD

24. **Fulga TANASA***, **Madalina ZANOAGA***, **Yevgen MAMUNYA****
**"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania, **Institute of Macromolecular Chemistry, Kiev, Ukraine
-

AERODYNAMIC CHARACTERISTICS OF AIRFOIL WITH SINGLE SLOTTED FLAP FOR LIGHT AIRPLANE WING

25. **Michael Damianov TODOROV**
Faculty of Transport, Technical University of Sofia, Bulgaria
-

MATHEMATICAL MODEL FOR A JET ENGINE WITH ANTI-STALL AUTOMATIC VALVE AIDED COMPRESSOR

26. **Alexandru-Nicolae TUDOSIE**
Department of Electrical, Power Systems and Aerospace Engineering, Faculty of Electrical Engineering, University of Craiova, Romania
-

PNEUMATIC ANTI-STALL AUTOMATIC SYSTEM FOR A JET ENGINE COMPRESSOR

27. **Alexandru-Nicolae TUDOSIE**, **Mihai-Cătălin OLTEANU**
Department of Electrical, Power Systems and Aerospace Engineering, Faculty of Electrical Engineering, University of Craiova, Romania
-

FATIGUE LIFE SIMULATION OF THE SPECIMENS MADE OF MECHANICAL COMPONENT

28. **Sebastian-Marian ZAHARIA**
Technological Engineering and Industrial Management Faculty, University of Transilvania, Brașov, Romania
-

RELIABILITY AND STATISTICAL ANALYSIS OF THE FATIGUE LIFE OF THE TAPERED ROLLER BEARINGS

29. **Sebastian-Marian ZAHARIA**
Technological Engineering and Industrial Management Faculty, Transilvania University of Brașov, Romania
-

*NOVEL POLYPROPYLENE-CLAY HYBRID MATERIALS FOR
AUTOMOTIVE INDUSTRY. EFFECT OF THE COMPATIBILIZING*

30. AGENT

Mădălina ZĂNOAGĂ, Fulga TĂNĂSA, Raluca DARIE

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania



3.3 Renewable Energy and Environment

Conference ROOM E40

Moderator:

Adrian ROȘCA, PhD

University of Craiova, Romania

THE LIFE CYCLE AS AN OFFSHORE PIPELINE

1. **Timur CHIS**

Faculty of Applied Science and Engineering, Ovidius University, Constanta, Romania

INNOVATIVE POSSIBILITIES TO REPRESENT THE BAIA MARE URBAN SYSTEM SOILS POLLUTION WITH HEAVY METALS USING G.S. SURFER

2. **Bogdan CIORUȚA*, Mirela COMAN****

*Faculty of Science, Technical University of Cluj-Napoca, Baia Mare, Romania,

**Faculty of Engineering, Technical University of Cluj-Napoca, Baia Mare, Romania

CONSIDERATIONS REGARDING THE SOIL POLLUTION WITH OIL PRODUCTS IN SĂCEL - MARAMUREȘ

3. **Marcela HRENIUC*, Mirela COMAN*, Bogdan CIORUȚA****

*Faculty of Engineering, Technical University of Cluj-Napoca, Baia Mare, Romania, **Faculty of Science, Technical University of Cluj-Napoca, Baia Mare, Romania

SOME PATTERNS OF APPLICATION OF FMEA METHOD FOR STUDYING THE QUALITY OF A PRODUCT

4. **Raluca NICOLAE(MĂNESCU), Anișor NEDELCU**

Manufacturing Engineering Department, Transylvania University of Brasov, Romania

NEED TO IMPLEMENT A HIGHLY-PERFORMING INTELLECTUAL-PROPERTY MANAGEMENT IN THE TECHNICAL-ENGINEERING FIELD

5. **Ramona PAKOCS, Nourăș-Barbu LUPULESCU**

Department of Manufacturing Engineering, Transylvania University of Brasov, Romania

***RISK MANAGEMENT AND ASSESSMENT OF THE
MANUFACTURING AND MARKETING RISK-FACTORS, WITHIN
INDUSTRIAL COMPANIES***

6.

Ramona PAKOCS , Nouraș-Barbu LUPULESCU

Department of Manufacturing Engineering, Transylvania University of Brasov,
Romania

EFFECTS OF THE LASER POWER ON WOOD COLOURATION

7.

Adrian PETRU, Aurel LUNGULEASA

Faculty of Wood Engineering, Transylvania University of Brasov, Romania

***MATHEMATICAL MODEL FOR PORK BONELESS NECK
TENDERIZING TO PRODUCE ROMANIAN TRADITIONAL
PRODUCT “CEAFĂ PERPELITĂ”***

8.

Adrian ROȘCA*, Petre CÎRDEI**

*Agriculture and Horticulture Faculty, University of Craiova, Romania,
**National Institute of Research - Development for Machines and Installations
Designed to Agriculture and Food Industry (INMA), Bucharest, Romania

***THE INFLUENCE OF CYCLIC VACUUMING AND PRESSURING
PROCESS ON TENDERIZING SHEEP PASTRAMI***

9.

Daniela ROȘCA*, Adrian ROȘCA**

*Faculty of Electrical Engineering, University of Craiova, Romania, **Agriculture
and Horticulture Faculty, University of Craiova, Romania

***THE INFLUENCE HEAT TRANSFER COEFFICIENT ON WOOD
CONSTRUCTION***

10.

Cosmin SPÎRCHEZ, Aurel LUNGULEASA

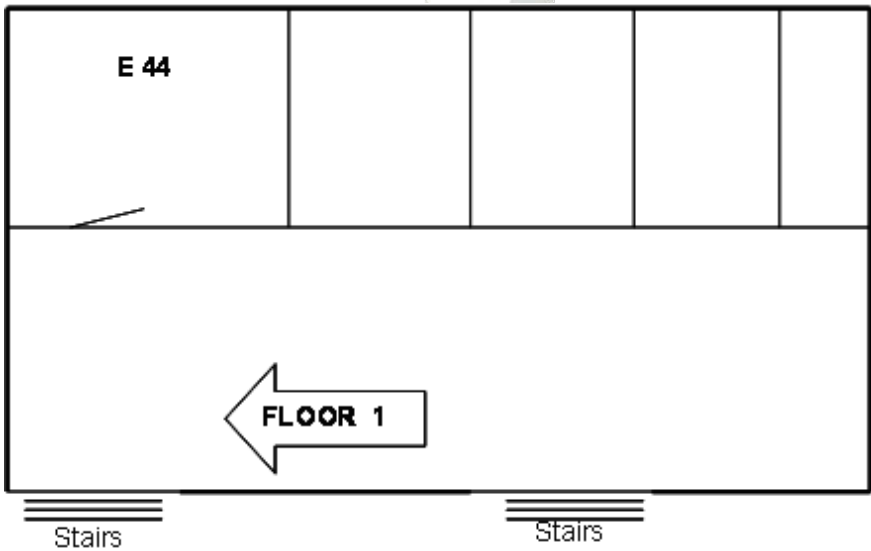
Faculty of Wood Engineering, Transylvania University of Brasov, Romania





4. APLIED MATHEMATICS, COMPUTER SCIENCE, IT&C

Conference ROOM E44



4. APLIED MATHEMATICS, COMPUTER SCIENCE, IT&C

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

— *NON LINEAR POTENTIAL THEORY*
Corneliu UDREA

— *PARALLEL APPROACHES FOR SUPERVISED AND
UNSUPERVISED LEARNING IN PATTERN RECOGNITION*
Ștefan-Gheorghe PENTIUC

*TRANSMISSION CODING SYSTEM USING HAMMING
ENCODING FHSS*

1. **Gabriel ANASTASIU*, Elena ANASTASIU****

*Faculty of Electrical Engineering and Computer Science, University of Suceava, Romania, ** “Alexandru cel Bun” College, Gura Humorului, Romania

USING BIG DATA FOR INTELLIGENT BUSINESSES

2. **Cristian BUCUR**

University of Economic Studies, Bucharest & Petroleum and Gas University, Ploiesti, Romania

*THE EQUATION OF DISPERSION AND THE DISPLACEMENT
VECTOR IN THE ANTISYMMETRIC CASE*

3. **Mihaela DUMITRACHE, Camelia GHELDIU**

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

SUBJECT INFORMATION TECHNOLOGY IN MILITARY EDUCATION

4. **Miroslav HRUBÝ**
Faculty of Military Technology, University of Defence, Brno, Czech Republic
-

SIMPLE SOFTWARE FOR EDUCATION

5. **Hošek JAROMÍR, Alexandr ŠTEFEK**
Faculty of Military Technology, University of Defence, Brno, Czech Republic
-

AIRPLANES OR RACKETS FLIGHT STABILIZATION OPTIMAL CONTROL IN CASE OF PITCH PERTURBATIONS

6. **Mircea LUPU*, Cristian-George CONSTANTINESCU**, Gheorghe RADU****
*Faculty of Mathematics and Computer Science, Transilvania University of Brasov, Romania,**Faculty of Aeronautical Management ,”Henri Coandă” Air Force Academy, Brasov, Romania
-

MATHEMATICAL MODELING BY USING A C++ SOFTWARE

7. **Ioan MILOSAN**
Faculty of Materials Science and Engineering, *Transilvania* University of Brasov, Romania
-

OPTIMIZATION OF INDUSTRIAL PROCESSES USING A SPECIAL SOFTWARE

8. **Ioan MILOSAN**
Faculty of Materials Science and Engineering, *Transilvania* University of Brasov, Romania
-

COMPARATIVE ANALYSIS OF QUANTUM KEY DISTRIBUTION PROTOCOLS WITH TWO, THREE AND FOUR-STATE SYSTEMS

9. **Gabriela MOGOS**
Prometeo researcher, Facultad de Informatica y Electronica, Escuela Superior Politecnica de Chimborazo, Riobamba, Ecuador
-

SOME FEATURES ABOUT STATIONARY DISTRIBUTION OF PROBABILITIES AND APPLICATIONS

10. **Ana-Maria RÎTEA, Sorina-Mihaela STOIAN**
Faculty of Mathematics and Computer Science, Transylvania University of Brasov, Romania
-

***PERFORMANCE ANALYSIS OF PARALLEL SVM TRAINING ON
CLUSTER HAVING SIMILAR IBM ROADRUNNER
ARCHITECTURE***

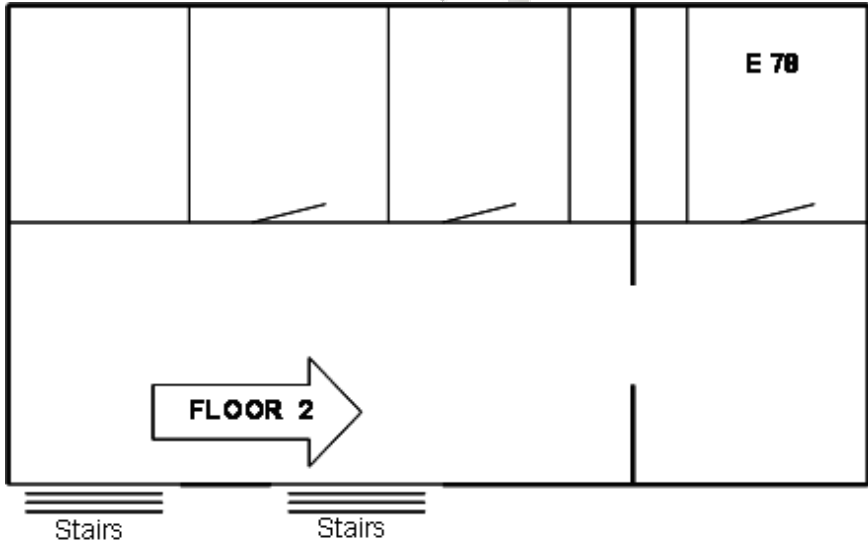
11. Ștefania-Iuliana ȘOIMAN*, Gheorghe RADU, Ștefan-Gheorghe
PENTIUC*, Ionuț BALAN*****

*Faculty of Electrical Engineering and Computer Science, “Ștefan cel Mare”
University, Suceava, Romania, ** “Henri Coandă” Air Force Academy, Faculty
of Aeronautical Management, Brasov, Romania, ***Faculty of Economics and
Public Administration, “Ștefan cel Mare” University, Suceava, Romania



5. SOCIO-HUMANITIES

Conference ROOM E78



5. SOCIO-HUMANITIES

Conference ROOM E78

Moderators:

Irina IOANA

“Carol I” National Defence University, Bucharest

Diana ILIȘOI

„Henri Coandă” Air Force Academy, Brasov

RELATIONSHIP MOTIVATION - VOCATIONAL MATURITY TO STUDENTS TO PRACTICE SPORTS CONTACT

1. **Florin-Marian ANTONESCU*, Petronela-Sorina VÎRBAN****

**Faculty of Psychology and Educational Sciences, University of Bucharest, Romania, *Faculty of Law, Romanian-German University of Sibiu, Romania

THE PROJECT-BASED LEARNING IN THE HIGHER EDUCATION - THEORETICAL AND PRACTICAL ASPECTS

2. **Ramona-Cristina BALANESCU**

Teaching Career Training and Social-Humanistic Sciences Department, “Politehnica” University of Bucharest, Romania

STRESSING FACTORS IN AVIATION

3. **Angela BLOGUȚ**

“Vasile Goldiș” Western University of Arad, Romania & Individual Office of Psychology Angela Bloguț, Timisoara, Romania

ADOLESCENT DEVELOPMENT: NEEDS, DESIRES, REQUIREMENTS

4. **Ileana-Mihaela CHIRIȚESCU**

Department of Foreign Languages, University of Craiova, Romania

THE ARTICULATION AND AGGREGATION OF INTERESTS IN THE ANALYSIS OF INFORMATION TECHNOLOGIES COOPERATION

5. **Cătălin CIOACĂ*, Horațiu MOGA**Ioana CONSTANTINESCU**

*Faculty of Aeronautical Management, “Henri Coandă” Air Force Academy, Brasov, Romania, **National Agency for Fiscal Administration, Brasov, Romania*** New Life Foundation, Brasov, Romania***

-
6. ***SATISFACTION AND PERFORMANCE WORK -DIMENSIONS RELEVANT FOR THE ORGANIZATIONAL YIELD***
Georgiana CORCACI
Department of Psychology, "Petre Andrei" University Iași, Romania
-
7. ***IRRATIONAL BELIEFS, PROFESSIONAL STRESS AND PERSONALITY IN THE MILITARY***
Constantin-Edmond CRACSNER, Lidia MOGOȘAN
Faculty of Psychology, Ecological University, Bucharest, Romania
-
8. ***CAREER COUNSELOR'S/CONSULTANT'S ROLE FOR A PROFESSION***
Elena-Oliviana EPURESCU
Department of Training for Teaching Career and Social Sciences, Politehnica University of Bucharest, Romania
-
9. ***STRESS IN MILITARY FIELD***
Diana ILIȘOI*, Ana-Maria FURTUNĂ**
* Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania, **Department of Psychology, "Spiru Haret" University, Brasov, Romania
-
10. ***HUMAN SECURITY PSYCHO-MORAL CONSIDERATIONS***
Cristian-Vlad IRIMIA
"Mihai Viteazul" National Intelligence Academy, Bucharest, Romania
-
11. ***THE TERRORISM AND ITS PSYCHOLOGICAL EFFECTS***
Irina IOANA
"Carol I" National Defence University, Bucharest, Romania
-
12. ***GUNS FOR HIRE: PRIVATE MILITARY COMPANIES AND THEIR STATUS UNDER INTERNATIONAL HUMANITARIAN LAW***
Cosmin IVANCIU
Faculty of Aeronautical Management, "Henri Coandă" Air Force Academy, Brasov, Romania
-
13. ***FACILITATION OF LEARNING AT A DISTANCE TRAINING PROGRAM***
Nicoleta LITOIU
Department of Training for Teaching Career and Social Sciences, Politehnica University of Bucharest, Romania
-

***PROFESSIONAL TRAINING PROGRAMS FOR PRACTICIONERS
IN CAREER COUNSELING***

14. Nicoleta LITOIU

Department of Training for Teaching Career and Social Sciences, Politehnica University of Bucharest, Romania

***THE TEACHER-PARENT EDUCATIONAL PARTNERSHIP,
HEALTH PROMOTION PROGRAM - SPECIFIC CASE - DENTAL
HEALTH***

15.

Roxana MAIER, Alina MARIAN

“Vasile Goldis” Western University, Arad, Romania

***CREATING A-HA MOMENTS IN TEACHING PRACTICE.
ROUTINE VERSUS ADAPTIVE METACOGNTIVE BEHAVIORS IN
TEACHERS***

16.

Loredana MANASIA

Department for Teaching Training and Social Sciences, Politehnica University of Bucharest, Romania

***THEORETICAL APPROACHES ON LEARNING FACILITATION IN
MENTORING***

17.

Gabriela-Carmen OPROIU

Teacher Training Department, University Politehnica of Bucharest, Romania

***MEDIATIZED WORD. INFORMATION. EDUCATION.
MANIPULATION***

18.

Anca PĂUNESCU, Laviniu LĂPĂDAT

Department of Applied Modern Languages, University of Craiova, Romania

***SEARCHING FOR SHREADS OF ORDER. THE STRUCTURE OF
TODAY'S INTERNATIONAL SYSTEM***

19.

Silviu PETRE*, Gheorghe SĂVOIU**

*Center of East-European and Asian Studies, SNSPA Bucharest, Romania, **
Faculty of Economic Sciences, University of Pitești, Romania

ASPECTS OF PROFESSIONAL BURNOUT AMONG NURSES

20.

Lavinia-Maria PRUTEANU, Viorel ROBU

Faculty of Psychology and Education Sciences, “Petre Andrei” University of Iasi, Romania

FIGHTING SCHOOL FAILURE IN MATHEMATICS

21.

Monica A.P. PURCARU, Gabriela CÂMPEAN

Faculty of Mathematics and Computer Science, Transilvania University of Brasov, Romania

***ETHICS ON THE HORIZON. TOWARDS A COMPLEX
ASSUMPTION OF A SECURITY CULTURE***

22.

Răzvan George ȘTEFAN

National Intelligence Academy „Mihai Viteazul” ,Bucharest, Romania

CRITICAL THINKING IN DEVELOPMENT OF CREATIVITY

23.

Marilena TICUȘAN, Hurjui ELENA

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

EDUCATIONAL ASPECTS OF ASSESSMENT OF CREATIVITY

24.

Marilena TICUȘAN

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



6. WORKSHOPS

28 mai 2015

14.30	DESCHIDEREA WORKSHOPURILOR <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>	
15.00-16.45	W4- ,Abordarea tulburărilor de personalitate în psihologia clinică" GHÉRASIM Cătălin-Marius <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>	W9- ,Parteneriatul profesor-elev-părinte-evaluare și intervenție în situații școlare dificile" HIERA Daniela, MAIER Roxana <i>Sala E45</i>
17.00-18.45	W5- ,Psihoterapia de scurtă durată în abordarea adleriană" GHÉRASIM Cătălin-Marius <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>	

29 mai 2015

08.30-10.30	DESCHIDEREA CONFERINȚEI <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>	
10.30-10.45	Sesiune de poze	
11.00-12.45	W1- ,Optimizarea comportamentului uman prin intermediul unor instrumente sau tehnici noi de evaluare psihologică pentru personalul din domeniul apărării, securității naționale și ordinii publice" ZAHARIA Corina-Mihaela <i>Sala E45</i>	W7- ,Terapiile ocupaționale centrate pe copil". PAȘCA Maria-Doina <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>

13.00-14.20	W2- „Reglementări metodologice specifice COPSI cu aplicație în mediul militar” PRISĂCARU Adrian <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>	W8- „A fost odată ca niciodată...sau despre basmul terapeutic” LEPĂDATU Ioana <i>Sala E45</i>
14.30-15.30	PAUZĂ DE MASĂ	
16.00-17.45	W6- „Comportamentul riscant în viața cotidiană. Studiu de caz: traficul din România” RĂULEA Ciprian <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>	
18.00-19.30	W3- „Dependenți de speranță. Închisoarea nu este un capăt de drum” SAMSON Anda , STAER Claudiu <i>AULA ACADEMIEI FORȚELOR AERIENE "HENRI COANDĂ"</i>	
20.00-24.00	CINĂ FESTIVĂ	

30 mai 2015

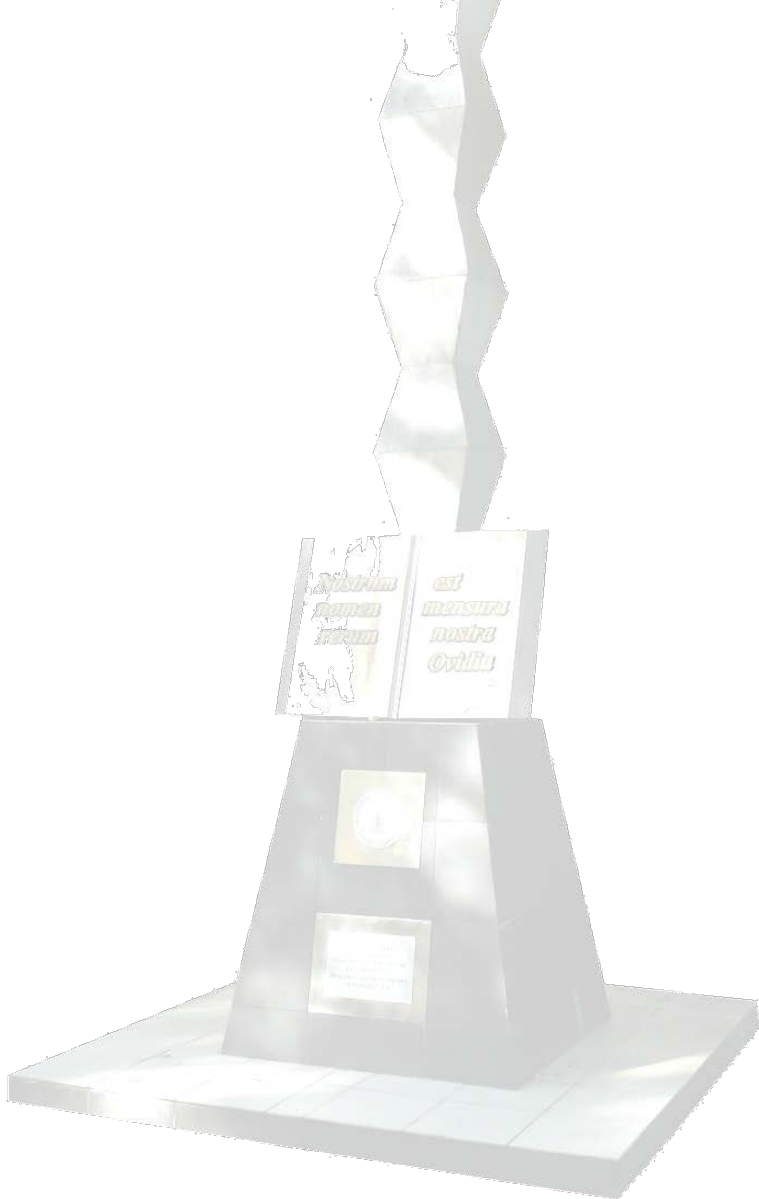
ACTIVITĂȚI DE VIZITARE A OBIECTIVELOR TURISTICE (Castelul Bran)



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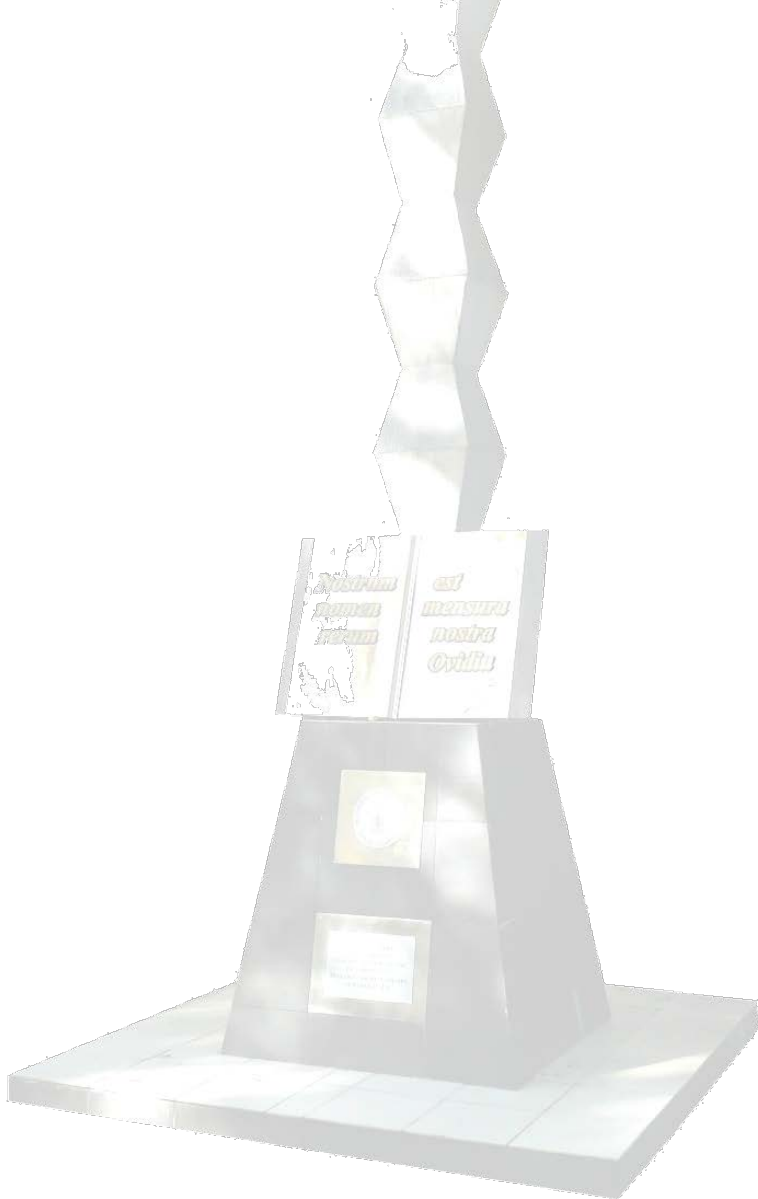
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