

CONFERENCE GUIDE

"HENRI COANDĂ"
AIR FORCE ACADEMY



ROMANIA

"GENERAL M.R. STEFANIK"
ARMED FORCES ACADEMY



SLOVAK REPUBLIC

STUDENTS' INTERNATIONAL CONFERENCE

AFASTUD

17th Edition



MILITARY STUDENTS'
ASSOCIATION BRASOV



"HENRI COANDĂ"
ASSOCIATION FOR RESEARCH
AND EDUCATION

20th "Henri Coanda" Air Force Academy
Anniversary 1995-2015

April 2 – 4, 2015
Brasov - ROMANIA

Conference Agenda

THURSDAY, April 02, 2015

1600 hrs - 2000 hrs	Arrival of delegations/ „Henri Coandă” Air Force Academy
1900 hrs - 2000 hrs	Ice breaker / Students’ Club (all participants are invited/dress code: smart casual)

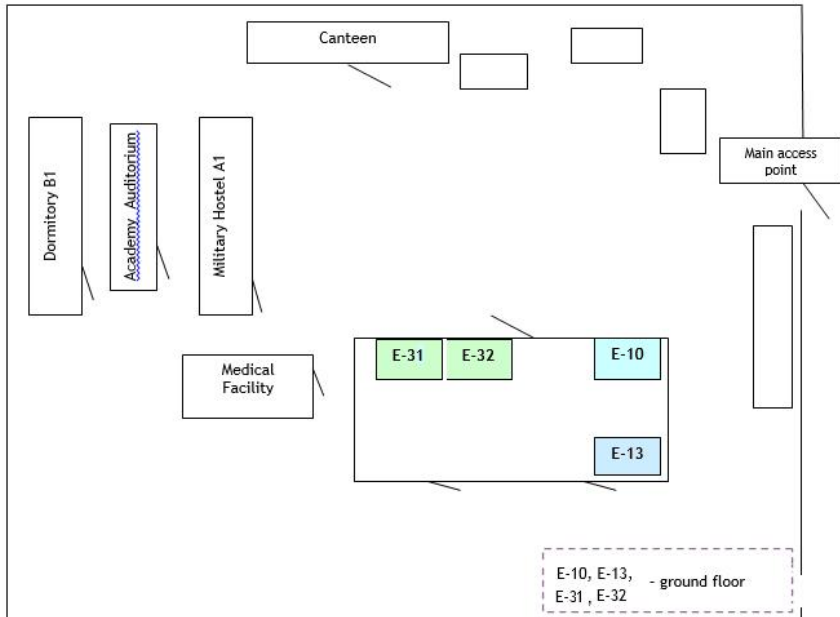
FRIDAY, April 03, 2015

0700 hrs - 0800 hrs	Breakfast (<i>Canteen</i>)				
0830 hrs - 0900 hrs	Welcoming and registration (<i>antechamber of Academy Auditorium</i>)				
0900 hrs - 1030 hrs	Official Opening of the International Conference “Communicating Across Cultures” AFASTUD’15 (<i>Academy Auditorium</i>)				
1045 hrs - 1100 hrs	Photo Session (<i>In front of Bdg A1</i>)				
1100 hrs - 1300 hrs	Panels (I)	Weapons & Defence technology <i>E - 32</i>	Fundamental sciences & Engineering <i>E - 13</i>	Humanities. Social sciences. Cultural studies <i>E - 31</i>	Military sciences & Management <i>E - 10</i>
1300 hrs - 1400 hrs	Lunch/ Students’ Dining Facility (<i>Canteen</i>)				
1400 hrs - 1700 hrs	Panels (II)	Weapons & Defence technology <i>E - 32</i>	Fundamental sciences & Engineering <i>E - 13</i>	Humanities. Social sciences. Cultural studies <i>E - 31</i>	Military sciences & Management <i>E - 10</i>
1700 hrs - 1800 hrs	Closing of the International Conference “Communicating Across Cultures” AFASTUD’15”/ “Henri Coandă” Air Force Academy’s (<i>Academy Auditorium</i>)				
1900 hrs - 2400 hrs	Students’ Evening / Students’ Dining Facility				

SATURDAY, April 04, 2015

0900 hrs - 1400 hrs	Leisure activities - Visit of the Weavers' Bastion and sightseeing tour
1400 hrs	Departure of delegations

Map of Conference Location



Organizing Committee

Maj Lect. Cosmina **ROMAN**, PhD

„Henri Coandă” Air Force Academy, Brasov

Jana **VITOVSKÁ**, PhDr

“General M. R. Stefanik” Armed Forces Academy, Slovakia

Maj Lect. Cătălin **CIOACĂ**, PhD

„Henri Coandă” Air Force Academy, Brasov

Maj Cristea-Gabriel **RĂU**

„Henri Coandă” Air Force Academy, Brasov

Capt TA Cosmin **IVANCIU**

„Henri Coandă” Air Force Academy, Brasov

Eng Mariana **GHINDĂOANU**

„Henri Coandă” Air Force Academy, Brasov

Student Jaroslav **BERACZKO**

„Henri Coandă” Air Force Academy, Brasov

Student Mirela **MAFTEAN**

„Henri Coandă” Air Force Academy, Brasov

Student George **UMALAN**

„Henri Coandă” Air Force Academy, Brasov

Student Gabriel GL **MAN**

„Henri Coandă” Air Force Academy, Brasov

Student Mihaela **NICOLAU**

„Henri Coandă” Air Force Academy, Brasov

Student Daniel **BULAI**

„Henri Coandă” Air Force Academy, Brasov

Student Vlad **URSESCU**

„Henri Coandă” Air Force Academy, Brasov

Student Raluca **VASILE**

„Henri Coandă” Air Force Academy, Brasov

Student Cosmina **DINU**

„Henri Coandă” Air Force Academy, Brasov

Student Adriana **ICHIM**

„Henri Coandă” Air Force Academy, Brasov

Student Răzvan **GHEORGHIU**

„Henri Coandă” Air Force Academy, Brasov

Student Sorin **MILEA**

„Henri Coandă” Air Force Academy, Brasov

Student Vlad **ARDELEAN**

„Henri Coandă” Air Force Academy, Brasov

Scientific Committee

Col Prof Mircea BO COIANU, PhD

„Henri Coandă” Air Force Academy, Brasov

Dipl. Eng. Lukáš BRIDÍK, PhD

Armed Forces Academy of General Milan Rastislav Stefanik, Slovakia

Assoc Prof Doru LUCULESCU, PhD

„Henri Coandă” Air Force Academy, Brasov

Assoc Prof Daniela BELU, PhD

„Henri Coandă” Air Force Academy, Brasov

Assoc Prof Diana ILI OI, PhD

„Henri Coandă” Air Force Academy, Brasov

Assoc Prof Adrian LESENCIUC, PhD

„Henri Coandă” Air Force Academy, Brasov

Lect Constantin STRÎMBU, PhD

„Henri Coandă” Air Force Academy, Brasov

Lect Mihaela SMEAD , PhD

„Henri Coandă” Air Force Academy, Brasov

LTC Lect Laurian GHERMAN, PhD

„Henri Coandă” Air Force Academy, Brasov

LTC Lect Ionică CÎRCIU, PhD

„Henri Coandă” Air Force Academy, Brasov

The Conference' Panels

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Humanities. Social Sciences. Cultural Studies	10
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Weapons & Defense Technology	16

Military Sciences & Management

Conference ROOM E10

Moderators:

Maj lect. Cornel ARAM , PhD

„Henri Coandă” Air Force Academy, Brasov

Student George UM LAN

„Henri Coandă” Air Force Academy, Brasov

The Eurasian Economic Union. A developing security community?

1. ANDREICU ▣ **GEORGIANA**
LEFTER TEFANIA
“Mihai Viteazul” National Intelligence Academy

The optimization of air traffic management services from innovation to solution

2. ANGHEL ANDREI C T LIN
„Henri Coandă” Air Force Academy

How a navy officer is born

3. BADIU ROBERT-VLAD
ZBURLEA LAURA IONELA
“Mircea cel Batran” Naval Academy

Civil-military air traffic management. Incident from Zurich, 8 June 2009

4. BÎCÎIN TATIANA
„Henri Coandă” Air Force Academy

Dangerous flight conditions: aircraft icing

5. CÎNDEA COSMIN PETRU
„Henri Coandă” Air Force Academy

Terrorism

6. EROL KAYAN
CUCU C T LINA BIANCA
“Mircea cel Batran” Naval Academy
-

7.	<i>OSINT - capability vs challenge</i> GHINEA CODRU □ LAZ R TIBERIU "Mihai Viteazul" National Intelligence Academy
8.	<i>Search and rescue</i> IFRIM ADRIAN IONU □ „Henri Coandă“ Air Force Academy
9.	<i>The efficiency of decision strategies in the selection of employees in public institutions</i> JALB DIANA RUS MIHAELA, SANDU MIHAELA "Ovidius" University - Constanța
10.	<i>The satellite marketing challenge</i> MARIN GELU „Henri Coandă“ Air Force Academy
11.	<i>The recruitment and selection process in public institutions</i> ODIC GABRIELA RUS MIHAELA, SANDU MIHAELA "Ovidius" University - Constanța
12.	<i>Aviation safety and people influence</i> PAVLOV ANGEL IVANCHEV IVAN, VELICHKOV NIKOLA Aviation Faculty, National Military University, Dolna Mitropolya, Bulgaria
13.	<i>Low-level wind shear</i> PETRA FLORIN „Henri Coandă“ Air Force Academy
14.	<i>Supremacy in a controversial world</i> PISARGIAC C T LINA FLORENTINA BÎGIU CORNELIA "Mihai Viteazul" National Intelligence Academy
15.	<i>Cultura organizațională și managementul schimbării</i> PÎSLARU IOLANDA RUS MIHAELA, SANDU MIHAELA "Ovidius" University - Constanța

Leadership

16. SLOTEA MARIAN
“Mircea cel Batran” Naval Academy

How does terrorism influence the airport security systems?!

- SZABÓ VIVIEN
17. Lieutenant Colonel Dr. Engineer SZEGEDI PÉTER
National University of Public Service, Avionics Technician/ Electrical
Engineer, Hungary

HUMINT: the core of intelligence

18. VIDESCU MIHAI
“Mihai Viteazul” National Intelligence Academy
-

Humanities. Social Sciences.

Cultural Studies

Conference ROOM E31

Moderators:

TA Daniela NAGY , PhD

„Henri Coandă” Air Force Academy, Brasov

Student Daniel BULAI

„Henri Coandă” Air Force Academy, Brasov

Informational war

1. AV D NEI ANGELA-KARINA
„Henri Coandă” Air Force Academy

Africa - another side of the world

2. BÎGIU CORNELIA
PISARGIAC C T LINA FLORENTINA
“Mihai Viteazul” National Intelligence Academy

The American War of Independence

3. BR ILEANU BOGDAN
IORGA ALEXANDRU
“Nicolae Bălcescu” Land Forces Academy

Psychology of manipulation and its methods of application

4. BURCEA ANDREEA
GRUIA DIANA GABRIELA
“Mihai Viteazul” National Intelligence Academy

Martin Luther King and the power of speech

5. CHIRODEA SERGIU-CRISTIAN
“Carol I” National Defense University, Bucharest

The Obama’s administration pivot to Asia

6. COR ATEA GABRIELA-SIMONA
“Mihai Viteazul” National Intelligence Academy
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7. *Intercomprehension*
CUCU C T LINA BIANCA
EROL KAYAN
"Mircea cel Batran" Naval Academy
-
8. *Experiential learning - the first step towards a modern education*
DOBRE TEODORA
"Mihai Viteazul" National Intelligence Academy
-
9. *Routine, between creativity and stagnation*
ICHIM ADRIANA
„Henri Coandă“ Air Force Academy
-
10. *The importance of proverbs in specialized english*
IRIMIA ALEX-GEORGE
"Mircea cel Batran" Naval Academy
-
11. *Is the Russian federation a smart bear?*
LAZ R TIBERIU
GHINEA CODRU
"Mihai Viteazul" National Intelligence Academy
-
12. *A theory of life*
MELINTE FABIAN ALEXANDRU
"Mircea cel Batran" Naval Academy
-
13. *Horatio Nelson*
MINTAR MIHAIL-MIREL
"Mircea cel Batran" Naval Academy
-
14. *Business communication in the arabic-speaking world. Case study - The Sultanate of Oman*
MITRAN ILIE IULIAN
RUS MIHAELA, SANDU MIHAELA
"Ovidius" University - Constanța
-
15. *The effects of ashkenazi ethic segregation on the development of yiddish. specific patterns in vocabulary*
MITRAN ILIE IULIAN
RUS MIHAELA, SANDU MIHAELA
"Ovidius" University - Constanța
-

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- The explosion of Artificial Intelligence and the course of society*
16. MUNTEANU ANDREEA
BURCEA MARIAN-COSMIN
"Mihai Viteazul" National Intelligence Academy
-
- The USA today - population, values and beliefs*
17. POPESCU ELENA-CRINA
ENACHE SEBASTIAN
"Nicolae Bălcescu" Land Forces Academy
-
- Putin and the Russian approach of the world*
18. PUIE OANA
ERBAN ANDREEA
"Mihai Viteazul" National Intelligence Academy
-
- Profile (WEIP-S). Emotional intelligence in teams*
19. SFETCU DELIA
"Nicolae Bălcescu" Land Forces Academy
-
- English in the world today*
20. STROE ALIN
"Nicolae Bălcescu" Land Forces Academy
-
- Specific aspects of communication in military organization*
21. ERBAN ALIN LUCIAN
„Henri Coandă“ Air Force Academy
-
- Feminism in postcommunism*
22. TU A NATALIA
TU A ENACHE, SANDU MIHAELA
"Ovidius" University - Constanța
-
- Romanian peasant's beliefs in sky and stars*
23. ZBURLEA LAURA IONELA
BADIU ROBERT-VLAD
"Mircea cel Batran" Naval Academy
-

Fundamental Sciences & Engineering

Conference ROOM E13

Moderators:

Lect Cristian CONSTANTINESCU, PhD

„Henri Coandă” Air Force Academy, Brasov

Student Raluca VASILE

„Henri Coandă” Air Force Academy, Brasov

Aplicații ale algebrei liniare în construirea unei diete de pierdere în greutate

1. ANGHEL ELENA-DIANA
BUCUR M D LINA-ELENA
Military Technical Academy

Laser harp

2. AROSCULESEI ANDREI
“Mircea cel Batran” Naval Academy

Design elements used in the construction of a wheeled mini-robot destined for special applications

3. BECHERU ALEXANDRU
BÎNDIU IOANA
“Nicolae Bălcescu” Land Forces Academy

BOB- walking bot

4. BRANICI IONU
“Mircea cel Batran” Naval Academy

Particularities regarding the use of regenerative energy

5. DRAGOMIR ALINA DANIELA
COCO C T LINA FLORENTINA
“Mircea cel Batran” Naval Academy

Hybrid Gear - Unmanned ground vehicle BPPV - 01

6. FRANÓ FILIP
Armed Forces Academy of Gen. Milan Rastislav Štefánik
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7. *The tropical cyclone phenomena in the Indian Ocean*
GHINGHILOSCI ALEXANDRA
BUZATU IONU
"Mircea cel Batran" Naval Academy
-
8. *Intraarmy network*
GÎRBACIU ALEXANDRU MIHAI
„Henri Coandă“ Air Force Academy
-
9. *Analysis of network communication using FPGA*
KOVÁ MICHAL
MICHAL TUR ANÍK
Armed Forces Academy of Gen. Milan Rastislav Štefánik
-
10. *Simulation of simplex radio communication in LAN networks*
LIPTÁK MAREK
Armed Forces Academy of Gen. Milan Rastislav Štefánik
-
11. *3D Printing*
MINCIUNESCU ROBERT-GEORGE
UNGUREANU CRISTINA
Military Technical Academy
-
12. *Radar part of the echolocation system*
MOISINCU MARIA-MAGDALENA
„Henri Coandă“ Air Force Academy
-
13. *Photovoltaic solar energy*
MU AT ALEXANDRU - LEONARD
„Henri Coandă“ Air Force Academy
-
14. *B-PRO: Basic Platform for Remote Operations*
OLARU ALEXANDRU EDUARD
PAN CLAUDIU TEFAN
"Mircea cel Batran" Naval Academy
-
15. *Lasers and their role in current scientific and industrial development*
PAN CLAUDIU TEFAN
"Mircea cel Batran" Naval Academy
-
16. *Magnetometry and its applications in the naval domain*
SAVA MARIAN
"Mircea cel Batran" Naval Academy
-

Creating a crypto devices and its application

17. SZEGEDI PÉTER
National University of Public Service, Faculty of Military Sciences and
Officer Training, Hungary

Generating electricity using wind power

18. TUDOR ALIN-M D LIN
„Henri Coandă“ Air Force Academy

The class A common emitter amplifier

19. UDATU GEORGE
„Henri Coandă“ Air Force Academy
-

Weapons & Defense Technology

Conference ROOM E32

Moderators:

Maj lect. Cătălin CIOAC

„Henri Coandă” Air Force Academy, Brasov

Student Claudiu MICU

„Henri Coandă” Air Force Academy, Brasov

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1. *3D modeling of the S-60 57 mm anti-aircraft gun ammunition supply system using 3D Studio Max*
ALB ADRIAN-OCTAVIAN
„Henri Coandă” Air Force Academy

 2. *The Submarine Delfinul*
BLAG DARIUS EMANUEL
“Mircea cel Batran” Naval Academy

 3. *The relation function - shape in the airplane wing design*
DAVID LAURENȚIU-FLORIAN
„Henri Coandă” Air Force Academy

 4. *3D radar systems*
DAVID LAURENȚIU-FLORIAN
„Henri Coandă” Air Force Academy

 5. *Gepard - Military*
IVAN ALIN LUCIAN
„Henri Coandă” Air Force Academy

 6. *Measurement of radar cross section by using Doppler method*
KISS ZSOLT
FÁBIÁN KRISTÓF
National University of Public Service, Military Engineering, Department of Military Aviation, Hungary
-

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- Sensing on board of UAV systems*
KOLLÁTH GÁBOR
7. SZEGEDI PÉTER, BÉKÉSI BERTOLD
National University of Public Service, Faculty of Military Sciences and
Officer Training, Hungary
-
- The 57 mm caliber cannon carriage*
8. MARIA PAVEL-CRISTIAN
„Henri Coandă“ Air Force Academy
-
- Overview of the drone-radar equipments. Applications in
the terrestrial missions for security of the army vehicles*
9. PALADE GHEORGHI-Ă
CAZACU MARIUS-MIHAI, TIMOFTE ADRIAN, GURLUI SILVIU-
OCTAVIAN
University “Alexandru Ioan Cuza” - Iași
-
- Airbus helicopters H160 with the new shiny design*
10. PAVLOV ANGEL
Aviation Faculty, National Military University, Dolna Mitropolya, Bulgaria
-
- Unmanned Logistics Support*
11. PLE A DARIUS NICOLAE
Col. Prof. TOMASZ SMAL
„Henri Coandă“ Air Force Academy
-
- Comparative study between anti-aircraft defence system
GEPARD B2L and anti-aircraft cannon GDF-103 AA-
OERLIKON*
12. RUSU COSMIN-VIOREL
„Henri Coandă“ Air Force Academy
-
- Study on new armor technologies*
13. STAN GABRIEL
“Mircea cel Batran” Naval Academy
-
- Comparative analysis on the implementation of the
approach flight with ILS and MLS systems use*
14. STROESCU C T LIN IONU
„Henri Coandă“ Air Force Academy
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