



Scientific Research and Education in the Air Force

AFASES 2021
22nd Edition

Conference Guide

December 9th - 11th, 2021
Braşov, România



**“Henri Coandă” Air Force Academy,
Braşov, Romania**

**The 22nd Edition of the International
Conference AFASES, 2021**

*Scientific Research and
Education in the Air Force*

Conference Guide

Conference Agenda

Thursday, 9 December 2021

19.00 – 20.30 Ice Breaker Evening – “Henri Coandă” Air Force Academy

Friday, 10 December 2021

08.00 – 09.00 Welcome and registration – “Henri Coandă” Air Force Academy (Auditorium Hall)

09.00 – 10.00 AFASES Official Opening – “Henri Coandă” Air Force Academy (Auditorium Hall)

10.00 – 10.30 Coffee Break and photo session

10.30 – 13.30 Paper presentations on panels (I)

Panels

Coordinators

Military Sciences

Senate Hall

Col Prof Adrian LESENCIUC, PhD

Airspace Security and Cyber Defence

E-44 Hall

Lt Col Assoc Prof Cătălin CIOACĂ, PhD

Management and Socio-Humanities

E-45 Hall

Lect Rita PALAGHIA, PhD

Aeronautical and Atmospheric Sciences

E-46 Hall

Lect Vasile PRISACARIU, PhD

Mihai-Victor PRICOP, PhD

Special section

Military History

Auditorium Hall

Cdr (ret) Lect Janel TĂNASE, PhD

13.30 – 14.30 Lunch – “Henri Coandă” Air Force Academy

14.30 – 18.00 Paper presentations on panels (II)

18.00 – 19.00 Break

19.00 – 21.00 AFASES official dinner – “Henri Coandă” Air Force Academy

Saturday, 11 December 2021

10.00 – 14.00 Visit to the Military Unit 01915, Cristian (breakfast included)

The Session Panels

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International Scientific Committee

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Rector of 'Henri Coandă' Air Force Academy , Brasov, Romania

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"Carol I" National Defense University, Bucharest, Romania

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Alexandru Ioan Cuza University of Iasi, Romania

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School of Psychology, Counseling, and Therapy, Antioch University, New Hampshire, USA

Organizing Committee

Chair:

Lect **Adrian PITICAR**, PhD
Vice-Rector for Science, “Henri Coandă” Air Force Academy, Brasov, Romania

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Lect **Mihaela GURANDA**, PhD
Lect **Jănel TANASE**, PhD
Assist Prof Eng **Vasile PRISACARIU**, PhD

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Eng **Daniela OBREJA**
Inf **Adrian ROTARU**
Inf **Adina DOBRIȚOIU**

Keynote Speakers

Lt Gen (r) **Laurian ANASTASOF**, PhD

Maj Gen (r) Prof **Florian RĂPAN**, PhD
"Dimtrie Cantemir" Christian University, Bucharest, Romania

Bg Gen (AF) **Leonard-Gabriel BARABOI**
Romanian Air Force 95th Air Base "Capitan Alexandru Șerbănescu"

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General Staff of the Romanian Air Force

Col (AF) **Cătălin BĂSESCU**
General Staff of the Romanian Air Force

Elena MATEESCU, PhD
National Meteorological Administration, Bucharest, Romania

Prof Habil **Sorin CHEVAL**, PhD
National Meteorological Administration, Bucharest, Romania

1. Military Sciences

Panel coordinator: Adrian LESENCIUC

“Henri Coandă” Air Force Academy, Braşov, Romania

1. *Methodologies for Assisting Veterans with PTSD in Other NATO Countries*, **Răzvan-Lucian ANDRONIC**, Faculty of Psychology and Education Sciences Brasov, “Spiru Haret” University, Romania
2. *Assisting Veterans in Theaters of Operations - A Comparative Approach in Other NATO Countries*, **Răzvan-Lucian ANDRONIC**, Faculty of Psychology and Education Sciences Brasov, “Spiru Haret” University, Romania
3. *The Adaptation of the Air Force Doctrine to the Romania National Defense Strategy*, **Bogdan-Cezar CHIOSEAU**, „Henri Coandă” Air Force Academy, Braşov, Romania
4. *The Importance of Goods and Services Requisition Process in the Public Interest*, **Marius MILANDRU**, “Nicolae Bălcescu” Land Forces Academy of Sibiu, Romania
5. *The Analyze of the Needs that the Students From Aviation Program Have Regarding Knowing and/or Developping the English Language*, **Vasile Adrian STOICULETE**, “Carol I” National Defence University, Bucharest, Romania
6. *The Chinese Nuclear Strategy in the Beginning of the 21st Century*, **Plamen BOGDANOV**, **Mario MARINOV**, University of Library Studies and Information Technologies, Sofia, Bulgaria

7. *The Influence of National Support Conditions on Multinational Interrelationation and Interoperability in NATO Coalition*, **Cătălin-Alin MORARU**, "Henri Coandă" Air Force Academy, Braşov, Romania
8. *How Can RED TEAM Help Carry Out the Air Force Planning Process?*, **Cătălin CHIRIAC**, "Carol I" National Defence University, Bucharest, Romania
9. *The Commander's Intent - Myth or Reality Within the Air Force?*, **Cătălin CHIRIAC**, "Carol I" National Defence University, Bucharest, Romania

2. Airspace Security and Cyber Defence

Panel coordinator: Cătălin CIOACĂ

“Henri Coandă” Air Force Academy, Braşov, Romania

2.1 Cyber Defense Qualitative, Quantitative and Engineering Analysis Methods

Chairmen: Horatiu MOGA,

Maritime University of Constanta, Romania

1. *Scientific Methods for Spotting Radicalization*, **Cristian BARNĂ**, University of Bucuresti, Romania
2. *Strategic Imagination*, **Fanel STROE**, ”Transilvania” University of Brasov, Romania
3. *Monte Carlo Method Applied in Country Risk Assessment*, **Adriean PARLOG**, University of Defense Bucuresti, Romania
4. *Future Cyber Threats Analysis: Exploration Challenges & Foresees*, **Zlatogor MINCHEV**, Bulgarian Academy of Sciences, Institute of Information and Communication Technologies, Sofia, Bulgaria
5. *The Current State of Research in Electronic Surveillance Systems Management: Jamming and Counter Jamming*, **Mihai-Alin MECLEA***, **Liviu GĂINĂ***, **Mircea BOŞCOIANU****, *”Henri Coanda” Air Force Academy, **”Transilvania” University of Brasov, Romania

6. *Research on the Maintenance of Air Surveillance Systems Management in the Context of Technological Development Industry 4.0*, **Liviu GĂINĂ***, **Mihai-Alin MECLEA***, **Mircea BOȘCOIANU****, *"Henri Coanda" Air Force Academy, **"Transilvania" University of Brasov, Romania
7. *Poliheuristic Decision Matrix like Thematic Matrix in Research of Cyber Warfare Constraints*, **Horatiu MOGA**, Maritime University of Constanta, Romania

2.2 Cyber Defense Analysis and Non-State Actors' Geopolitics

Chairmen: Horatiu MOGA,
Maritime University of Constanta, Romania

1. *Europe's Deradicalization and Disengagement Strategies for Muslims Youngsters*, **Cristian BARNA**, University of Bucuresti, Romania
2. *Stock Market Wars and Crypto Currencies*, **Mircea BOSCOIANU**, "Transilvania" University of Brasov, Romania
3. *Disruptive Technologies. Their Impact on Systems Security*, **Adriean PARLOG**, University of Defense Bucuresti, Romania
4. *The Foresight Effect*, **Ciprian TURTUREAN**, "Alexandru .Ioan Cuza" University of Iasi, Romania
5. *Are the Foresight Methods Obsolete?*, **Doru POGOREANU**, Independent Researcher and CEO of Prospexi Publisher House

2.3 Cyber Defense Analysis. States and Global Actors' Geopolitics

Chairmen: Mircea BOSCOIANU,
"Transilvania" University of Brasov, Romania

1. *Artificial Intelligence's Geopolitical Impact*, **Vasile SIMILEANU**, Senior Editor of Geopolitical Review and Member of Academy of Romanian Scientists
2. *State Actor Strategies in Pursuing Technological Dominance in a Changing World - The Case of Digital*, **Alexandru GEORGESCU**, National Institute for Research & Development in Informatics, Romania
3. *Cyber Security Researches in Energy Critical Infrastructures*, **Gabriel RAICU**, Maritime University of Constanta, Romania
4. *Cyber Security in the Maritime and Port Field*, **Remus ZAGAN**, Maritime University of Constanta, Romania
5. *Integration of Cyber Warfare With Radio-Jamming Warfare and Hypersonic Weapons in the Geopolitical Vision of the Russian Federation*, **Horatiu MOGA**, Maritime University of Constanta, Romania
6. *The Rise of Cyberspace in the Context of Actual Persistent Unconventional Crisis*, **Catalin CIOACA**, "Henri Coanda" Air Force Academy, Romania

3. Management and Socio-Humanities

Panel coordinator: Rita PALAGHIA

“Henri Coandă” Air Force Academy, Braşov, Romania

1. *Crisis, Opportunity for Change in Leadership*, **Diana CHIŞ-MANOLACHE**, “Carol I” National Defence University, Bucharest, Romania
2. *Linguistic Globalization and Interoperability in Multinational Military Organizations*, **Bianca CONSTANTINESCU**, “Henri Coandă” Air Force Academy, Braşov, Romania
3. *Power Distance Index and its Role in the Efficient Functioning of Multinational Organizations*, **Adrian-Gabriel DUCU**, “Henri Coandă” Air Force Academy, Braşov, Romania
4. *The Role of Personal Development in Students Adapting to the Academic Life*, **Oana JITARU, Roxana AXINTE, Cristina VATAVU**, “Gheorghe Asachi” Technical University, Iasi, Romania
5. *Operational Fatigue Management in Case of Military Aircrew*, **Leonard-Marin LUPU**, Romanian Air Force Headquarters, Bucharest, Romania
6. *Cross-Cultural Knowledge for Interoperability*, **Virgil Florian NEAGOE**, “Henri Coandă” Air Force Academy, Braşov, Romania

7. *The Communicational Dimension of Digital Diplomacy*, **Victor Adrian VEVERA**, National Institute for Research and Development in Informatics – ICI Bucharest, Romania

4. Aeronautical and Atmospheric Sciences

Panel coordinators: Vasile PRISACARIU

“Henri Coandă” Air Force Academy, Braşov, Romania

Mihai-Victor PRICOP

National Institute for Aerospace Research “Elie Carafoli”

1. *Risk management in reducing the occurrence of aviation events, Mădălina DUMITRU**, **Vasile-Adrian STOICULETE****,
*“Transilvania” University of Brasov, Romania, **“Carol I”
National Defence University, Bucharest, Romania
2. *Considerations of Aviation Safety for Flying in Mountainous Terrain, Eduard MIHAI, Mihai DEAŞ*, “Henri Coanda” Air Force Academy, Brasov, Romania
3. *Mediterranean Cyclones Tracks in Europe With Special View Over Romania (1985-2015), Vlad-Alexandru ILIE, Adina-Eliza CROITORU, Titus MAN*, “Babeş-Bolyai” University, Faculty of Geography, Cluj-Napoca, Romania
4. *Optimization Of Weapon Systems According To The Mission Of The Aircraft, Ionică CÎRCIU*, Henri Coanda” Air Force Academy, Brasov, Romania
5. *Variability and climate change in Romania, Sorin CHEVAL*, National Meteorological Administration, Bucharest, Romania
6. *Estimation of a Degrading Battery System for UAV Systems, Andrei-Mihai LUCHIAN**, **Ionuţ-Claudiu POPA****,
*Operational Air Component of the National Defence Ministry,

Romania, **University of Economic Studies, Bucharest, Romania

7. *UAS Longitudinal Flight Control*, **Andrei-Mihai LUCHIAN***, **Mihai-Alin MECLEA****, *Operational Air Component of the National Defence Ministry, Romania, **“Henri Coanda” Air Force Academy, Brasov, Romania
8. *Calculation by Probabilistic Methods of Locating PIN Assembly of Rotor Blades in the Construction of Aircraft Compressors and Turbines*, **Doru LUCULESCU*** **Ştefan MUSTAŢĂ****, “Henri Coandă” Air Force Academy, Braşov, Romania, “Ferdinand I” Military Technical Academy, Bucharest, Romania
9. *Studying the Coherence Values for UHI: A Case Study of Iasi*, **Paul MACAROF**, **Paul-Marian GHERASIM**, **Ioana AGAPIE (MEREUTA)**, “Gheorghe Asachi” Technical University, Iasi, Romania
10. *UAV Application in Highrise Building Fires*, **Ovidiu-Petruţ NICOLAE***, **Dragoş-Julian PAVEL****, **Cătălin PAVEL*****, * “Ţara Bârsei” County Inspectorate for Emergency Situations of Braşov County, ** “Alexandru Ioan Cuza” Police Academy, Faculty of Fire, Bucharest, *** Security analyst, Romania
11. *Supersonic Air INLET for a High Velocity Propulsion System*, **Alexandru-Nicolae TUDOSIE***, **Vasile PRISACARIU****, *University of Craiova, Romania ** “Henri Coanda” Air Force Academy, Brasov, Romania
12. *Weighted Regressions for Internal Balances Used in Wind Tunnels*, **Mihai-Victor PRICOP***, **Ionel POPESCU****, **Lică FLORE*****, **Mihăiţă-Gilbert STOICAN***, *National Institute for Aerospace Research “Elie Carafoli” – INCAS, Bucharest, Romania, **Institute for Theoretical and Experimental Analysis of Aeronautical - Astronautics Structures – STRAERO,

Bucharest, Romania, *** Romanian Research & Development
Institute for gas turbines – COMOTI, Bucharest, Romania

13. *Supersonic-Hypersonic Multiple-Ramp Intakes Optimization in Calorically and Thermally Perfect Gas*, **Mihai-Victor PRICOP**, **Mihăiță-Gilbert STOICAN**, **Dumitru PEPELEA**, National Institute for Aerospace Research “Elie Carafoli” – INCAS, Bucharest, Romania

14. *Considerations About Construction of UAV Ground Control Stations*, **Vasile PRISACARIU***, **Mircea BOȘCOIANU****, **Dănuț BĂLOS*** **Cătălin CIOACĂ***, **Sebastian POP***, **Luige VLĂDĂREANU****, **Victor VLĂDĂREANU****, **Ana-Maria TRAVEDIU****, * “Henri Coanda” Air Force Academy, Brasov, Transilvania University of Brasov, Romania

5. Military History

Panel coordinator: Jănel TĂNASE

“Henri Coandă” Air Force Academy, Braşov, Romania

5.1 From the Renaissance of Romanian Spirit at the Beginning of the Nineteenth Century to the Consolidation of the Great Union

Moderators: Maj Gen (r) prof. **Florian RĂPAN**, PhD

Prof. **Sabin DRĂGULIN**, PhD

Liviu ȚĂRANU, PhD

1. *Smaranda Brăescu, the Pioneer and Performer of Female World Parachuting*, **Laurentiu BUZENCHI**, Romanian Association for the History and Propaganda of Aeronautics, Cluj Branch, Romania
2. *Tudor Vladimirescu, the Christian Revolutionary and Man of God*, **Alina-Rebecca DUINEA**, “Henri Coandă” Air Force Academy, Braşov, Romania
3. *Romania's Entry Into the Great War as a Result of the Conclusion of the Nation - Result of the Conclusion of the Nation - State Project Thought of the "Founding Fathers" and Their Following Politics*, **Sabin DRĂGULIN***, **Ioana DRĂGULIN****, „Petre Andrei” University Iaşi, **National Muzeum Cotroceni, Romania
4. *The Evolution of the Concepts of Use of Romanian Aviation in the Two World Conflagrations and in the Interwar Period*, **Florian RĂPAN**, “Dimtrie Cantemir” Christian University, Bucharest, Romania

5. *The Beginning of Aeronautical Military Art in Romania*, **Marius-Adrian NICOARĂ**, Romanian Academy of Scientists, Center for Historical Sciences and Archeology of the European Institute for Multidisciplinary Research, Romania
6. *Traian Vuia Among the Limits of Intelligence, Passion and Optimism. Vuia Engines and the Affinity for the Wide Field of Aeronautics*, **Denisa-Ana BALEA**, “Henri Coandă” Air Force Academy, Braşov, Romania
7. *100 Years Since the Conclusion of the Regional Security Alliances of Romania (Romanian-Polish Defensive Alliance of March 3, 1921 and Little Agreement, April 23, 1921, June 7, 1921). Objectives, Evolutions, Shattered Illusions*, **Dan PRISĂCARU**, “Ştefan cel Mare” Military Museum - Moldova Branch, The "King Ferdinand I" National Military Museum, Romania
8. *The 6th Division Focsani Infantry – Tradition and Continuity in Settlement and Defence of the Romanian State*, **Neculai ŞERBAN**, The Vrancea Zonal Military Center, Focsani, Romania
9. *Study on the Institution of the Legal Insurance of Military Aeronautical Personnel in the Pre-Principle of the War of National Reunification*, **Cristian MANOLACHI**, The Air Forces Staff, Bucharest, Romania
10. *Tehreek-E-Labbaik Pakistan (TLP): A Rising Extremist Force, or Just the Tip of a Larger Radicalised Iceberg in the Afpak Region?*, **Ecaterina MAŢOI**, Faculty of Humanities and Social Sciences, Basel University, Elveția
11. *Birth, Development and Concepts for the Use of Aviation in Warfare Before the First World War*, **Plamen BOGDANOV**, University of Library Studies and Information Technologies, Sofia, Bulgaria

5.2 From the War of National Reunification to the New Post-War Status of Romania

Moderators: Col (r) prof. **Ion GIURCĂ**, PhD
Prof. **Alin SPÂNU**, PhD
Assoc.prof. **Florian BICHIR**, PhD

1. *The 22 June 1941 - An Astral Day in the History of the Romanian Nation*, **Jipa ROTARU**, Romanian Academy of Scientists
2. *The Romanian-German Command Relations in the 1941 year*, **Ion GIURCĂ**, Hyperion University, Bucharest, Romania
3. *Air Missions Carried Out by the Air Fighting Group in the Operation for the Liberation of Bessarabia and the Conquest of the Odessa in the 1941 Campaign*, **Ana-Maria IAURUM**, "Henri Coandă" Air Force Academy, Braşov, Romania
4. *Soviet Aeronautics in the Analysis of Romanian Intelligence Services (September 1940 - June 1941)*, **Alin SPÂNU**, The Faculty of History, University of Bucharest, Romania
5. *The Legendary Horia Agarici between Legend and Propaganda*, **Florian BICHIR**, National Defence University "Carol I", Bucureşti, Romania
6. *The Lieutenant Commander Miclescu Gheorghe, Knight of the Romanian Wings*, **Mihail-Cătălin LĂŢCAN**, General Staff of the Land Forces, Bucharest, Romania
7. *Romanian Military Paratroopers, 80 Years of History for Romania*, **Mircea TĂNASE**, "Nicolae Bălcescu" Land Forces

Academy Sibiu, “Marshal Alexandru Averescu” Foundation,
Buzău, Romania

8. *The Lieutenant Commander Popișteanu Alexandru, Commander of the Heroical Grup 7 Vânătoare in the Air Battle for the Liberation of Basarabia and the Conquest of Odessa*, **Jănel TĂNASE**, “Henri Coandă” Air Force Academy, Braşov, Romania
9. *The Proiect VFW 614 Fokker and the Romanian Aeronautical Industry*, **Liviu ȚĂRANU**, The National Council for Study of Security Arhives, Bucharest, Romania
10. *Prisoners' Camp From Timișu de Jos and the Humanitarian Treatment Applied by the Romanian State to American Aviation War Prisoners During the Second World War, an Example of the Good Practices in Compliance with the Laws and Customs of War*, **Elena-Laura ION**, „Henri Coandă” Air Force Academy, Braşov, România
11. *IAR 80 - A Successful Romanian Fighter Aircraft During World War II*, **Lucian-Cristian GAFIȚA**, “Henri Coandă” Air Force Academy, Braşov, Romania
12. *Dumitru Prunariu the Life and Scientific Work in Support of the Cosmic Space Conquest*, **Constantin COLCEAG**, “Henri Coandă” Air Force Academy, Braşov, Romania
13. *Historical Landmarks Regarding the Actions of Attacking in the Air of the Aeronautical Personnel that Are Saved by Parachuting During the World Conflicts of the XX Century*, **Mihai DEAȘ**, “Henri Coandă” Air Force Academy, Braşov, Romania
14. *Bartolomeu 1916, The Martyr's Sacrifice And The Chance Of Acknowledgment*, **Ioan VLAD**, “Henri Coandă” Air Force Academy, Braşov, Romania

15. *Vlaicu and Negel Two Friendly Heroes Friends in Sacrifice for the Glory of Romania's Wings*, **Alex VOLOȘEN**, "Henri Coandă" Air Force Academy, Brașov, Romania

Notes:

Notes: