



Ministry of Research and Innovation



INCAS – National Institute for Aerospace Research “Elie Carafoli”
(Under the aegis of The Romanian Academy)

**International Conference of Aerospace Sciences,
“AEROSPATIAL 2018”
25 – 26 October 2018, Bucharest, Romania**

The conference is held under the aegis of the Ministry of Research and Innovation.

CONFERENCE DETAILED PROGRAM - “Conference room”, et. 2, corp B

Time	ID	Title	Authors and affiliation
Day 1: Thursday, October 25th, 2018			
Session 1 (Section works). Systems, Subsystems and Control in Aeronautics			
Session Chairs: Mircea LUPU (Transilvania University of Brasov, Romania), Laurentiu MORARU (POLITEHNICA University of Bucharest, Romania)			
14:30 - 14:45	S5.1	<i>Space Energy, a Source of Endless Energy and a Future Challenge in the Field of Space</i>	Virgil STANCIU, Anna-Maria Theodora ANDREESCU (“POLITEHNICA” University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-7, Sector 1, Bucharest, 011061, Romania)
14:45 - 15:00	S5.2	<i>The absolute stabilization and optimal control of hydrofoil watercrafts</i>	Mircea LUPU (Transilvania University of Brasov, Romania and Academy of the Romanian Scientists, Bucharest, Romania), Cristian-George CONSTANTINESCU (Henri Coanda Air Force Academy, Brasov, Romania), Gheorghe RADU (Henri Coanda Air Force Academy, Brasov, Romania)
15:00 - 15:15	S5.3	<i>Notes regarding the supply and drain pressure effects on a squeeze film damper</i>	Laurentiu MORARU (Department of Aerospace Sciences, The “POLITEHNICA” University of Bucharest, Splaiul Independenței 313, 060042, Bucharest, Romania)
15:15 - 15:30	S5.4	<i>Analysis of modern military jet trainer aircraft</i>	Ilie NICOLIN, Bogdan Adrian NICOLIN (INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Bucharest 061126, Romania)
15:30 - 15:45	S5.5	<i>Regulatory requirements concerning a new school and training military jet</i>	Ilie NICOLIN, Bogdan Adrian NICOLIN (INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Bucharest 061126, Romania)

15:45 - 16:00	S5.6	<i>How does the external hypotonic environment influence the pulsating liposome activity</i>	Dumitru POPESCU, Alin Gabriel POPESCU (Department of Mathematical Modelling in Life Sciences, Institute of Mathematical Statistics and Applied Mathematics, Calea 13 Septembrie, nr. 13, Bucharest-050711, Romania)
Session 2 (Section works). Workshop Project “CONTUR” Session Chairs: Aurelian Andrei RADU (Institute of Space Science, Magurele, Ilfov, Romania), Doina NICOLAE (National Institute for Research & Development in Optoelectronics – INOE 2000, Măgurele, Ilfov, Romania), Ioan URSU (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)			
16:00 - 16:15	S5.1.1	<i>CONTUR – Status and Perspectives of a Project in Progress</i>	Aurelian Andrei RADU (Institute of Space Science, Magurele, Ilfov, Romania), Sabina STEFAN (University of Bucharest, Faculty of Physics, Magurele, Romania), Iulia SURUCEANU (Institute of Space Science, Magurele, Ilfov, Romania), Ioan URSU (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)
16:15 - 16:30	Coffee break		
Session 3 (Section works). Workshop Project “CONTUR” Session Chairs: Aurelian Andrei RADU (Institute of Space Science, Magurele, Ilfov, Romania), Doina NICOLAE (National Institute for Research & Development in Optoelectronics – INOE 2000, Măgurele, Ilfov, Romania), Ioan URSU (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)			
16:30 - 16:45	S5.1.2	<i>Screen induced turbulence in a low speed wind tunnel</i>	Mihai Leonida NICULESCU, Ionut BUNESCU, Dumitru PEPELEA, Mihai Victor PRICOP (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)
16:45 - 17:00	S5.1.3	<i>Equilibrium stability of a 2-D wing with time delayed feedback control</i>	Daniela ENCIU (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania), Andrei HALANAY (POLITEHNICA University Bucharest, Romania), Aurelian Andrei RADU (Institute of Space Science, Magurele, Ilfov, Romania), Marius STOIA-DJESKA (POLITEHNICA University Bucharest, Faculty of Aerospace Engineering, Romania), George TECUCEANU (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania), Ioan URSU (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)
17:00 - 17:15	S5.1.4	<i>The Development of a Reduced Order Computational Model of an Aeroelastic Experimental Wing</i>	Marius STOIA-DJESKA (POLITEHNICA University Bucharest, Faculty of Aerospace Engineering, Romania)
17:15 - 17:30	S5.1.5	<i>Data and Methods to Study the Clear Air Turbulence Cases in Romanian Aerial Space</i>	Livius BUZDUGAN (Romanian Air Traffic Services Administration, Bucharest, Romania; University of Bucharest, Faculty of Physics, Magurele, Romania), Denisa URLEA (Romanian Air Traffic Services Administration, Bucharest, Romania; University of Bucharest, Faculty of Physics, Magurele, Romania), Sabina STEFAN (University of Bucharest, Faculty of Physics, Magurele,

			Romania), Simona ANDREI (National Institute of Research & Development for Optoelectronics – INOE 2000, Magurele, Ilfov, Romania), Cristian NECULA (University of Bucharest, Faculty of Physics, Magurele, Romania), Aurelian Andrei RADU (Institute of Space Science, Magurele, Ilfov, Romania)
17:30 - 17:45	S5.1.6	Assessment of air turbulence detection criteria using remote sensing instruments within the first CONTUR campaign	Livio BELEGANTE, Razvan PIRLOAGA, Bogdan ANTONESCU, Doina NICOLAE, Alexandru TILEA, Dragos ENE, Alexandru DANDOC SI, Cristian RADU (National Institute of Research & Development for Optoelectronics – INOE 2000, Magurele, Ilfov, Romania), Horatiu STEFANIE, Nicolae AJTAI (Babes Bolyai University UBB, Str. Mihail Kogălniceanu, nr. 1, 400084 Cluj-Napoca, Romania)
17:45 - 18:00	S5.1.7	Developing new methodology for clear air turbulence event's detection by using a HSRL system	Andreea CALCAN (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania), Livio BELEGANTE (National Institute of Research & Development for Optoelectronics – INOE 2000, Magurele, Ilfov, Romania), Doina NICOLAE (National Institute of Research & Development for Optoelectronics – INOE 2000, Magurele, Ilfov, Romania), Magdalena ARDELEAN (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania), Sorin VĂJĂIAC (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)
18:00 - 18:15	S5.1.8	BOUNDARY LAYER WIND TUNNEL FROM UTCB - a state of the art experimental infrastructure	Alexandru Cezar VLĂDUȚ, Costin Ioan COȘOIU (Technical University of Civil Engineering of Bucharest, LAIV laboratory, Romania)
19:00	Gala Dinner – Restaurant “Turbotequila”		