



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 - “Elie CARAFOLI” Amphitheatre**

Time	ID	Title	Authors and affiliation
<b>Day 2: Friday, October 26<sup>th</sup>, 2018</b>			
08:30 - 16:00	Registration		
Session 1 (Prize Award Ceremony and Celebrating Excellence) Session Chair: <b>Victor MANOLIU</b> (AEROSPACE Consulting, Bucharest, Romania), <b>Ioan URSU</b> (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)			
09:00 - 10:10	1	<i>The “Nicolae TIPEI” – Prize Award Ceremony</i>	
10:10 - 10:50	2	<i>The “Gheorghe VASILCA” – Prize Award Ceremony</i>	
10:50 - 11:30	3	<i>Celebrating Excellence in service of Romanian Aerospace Research, GI.FI.aer.(rez) Prof.univ. Nicolae-Florin ZĂGĂNESCU</i>	
11:30 – 11:40	PL	<i>“Why are EO data important for the society?”</i>	<b>Dr. Bogdan Antonescu</b> (National R&D Institute for Optoelectronics INOE2000)
11:40 - 12:00	<b>Coffee break</b>		
Session 2 (Plenary) Session Chair: <b>Catalin NAE</b> (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Bucharest, Romania)			
12:00 - 12:30	PL7	<i>(R)evolutionizing aircraft structures: Advances, trends, needs</i>	<b>Prof. Spiros PANTELAKIS</b> (Department of Mechanical Engineering & Aeronautics, University of Patras, EASN, Greece)
12:30 - 13:00	PL8	<i>Exploration of Supersonic Flow Over Flying Configurations (Part 2)</i>	<b>Prof. Dr. Ing. Adriana NASTASE</b> (RWTH, Aachen University, Germany)

13:00 - 14:00	<b>Lunch</b>		
Session 3 (Section works). <b>Experimental Investigations in Aerospace Sciences</b> Session Chairs: <b>Gina MANDA</b> (Victor Babes National Institute of Pathology, Bucharest, Romania), <b>Ionel SIMION</b> (POLITEHNICA University of Bucharest, Romania)			
14:00 - 14:15	S6.1	<i>Altered redox signalling in normal cells exposed to space-relevant radiation</i>	<b>Gina MANDA</b> (Victor Babes National Institute of Pathology, Bucharest, Romania), <b>Maria DOBRE</b> (Victor Babes National Institute of Pathology, Bucharest, Romania), <b>Ionela Victoria NEAGOE</b> (Victor Babes National Institute of Pathology, Bucharest, Romania), <b>Cristian POSTOLACHE</b> (Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania), <b>Marina NECHIFOR</b> (Faculty of Biology, University of Bucharest, Bucharest, Romania), <b>Mariana BOBEICA</b> (Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania), <b>Theodor ASAVEI</b> (Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania)
14:15 - 14:30	S6.2	<i>Virtual simulation of hip joint biomechanical behavior produced by exceeding +4G-force magnitude</i>	<b>Patricia Isabela BRAILEANU</b> (University "POLITEHNICA" of Bucharest, FEMTS, Romania in International Cotutelle with Université de Lyon, INSA-Lyon, LaMCoS, France), <b>Ionel SIMION</b> (University "POLITEHNICA" of Bucharest, FAE, Departament of Engineering Graphics and Industrial Design, Romania), <b>Benyebka Bou-Saïd</b> (Université de Lyon, INSA-Lyon, LaMCoS, France)
14:30 - 14:45	S6.3	<i>Validation of an acoustic tool to determine the propeller rpm</i>	<b>Nico van OOSTEN</b> (ANOTEC ENGINEERING S.L., Motril (Granada), Spain), <b>Silviu Emil IONESCU</b> (Independent Researcher, Motril (Granada), Spain)
14:45 - 15:00	S6.4	<i>Towards the effects of initial grain temperature and erosive burning on the combustion of homogeneous solid rocket propellants</i>	<b>Doru SAFTA</b> (MTA - Military Technical Academy, Bucharest, Romania), <b>Ioan ION</b> (University "Eftimie Murgu", Reșița, Romania)
15:00 - 15:15	S6.5	<i>Concurrent engineering in designing a system for sensing gas leaks in harsh space environment</i>	<b>George SUCIU</b> (BEIA CONSULT INTERNATIONAL, Bucharest, Romania), <b>Andrei Sorin NEAMTU</b> (INCAS – National Institute for Aerospace Research "Elie Carafoli", Bucharest, Romania), <b>Jenica NEAMTU</b> (National Institute for Research & Development in Electrical Engineering, Bucharest, Romania), <b>Dragos OVEZEA</b> (National Institute for Research & Development in Electrical Engineering, Bucharest, Romania), <b>Maria Cristina DITU</b> (BEIA CONSULT INTERNATIONAL, Bucharest, Romania), <b>Alexandru DROSU</b> (BEIA CONSULT INTERNATIONAL, Bucharest, Romania), <b>Gabriel PETRESCU</b> (BEIA CONSULT INTERNATIONAL, Bucharest, Romania)
15:15 - 15:30	S6.6	<i>Experimental Investigations on the Possibility to Apply the Corrugated Sheet Metal Used in the Past at Junkers Aircraft for Noise Reduction of Future European Aircraft. Other Experiments Dedicated to Noise Reduction of Future</i>	<b>Constantin SANDU</b> (COMOTI – Romanian Research & Development Institute for Gas Turbines, Bucharest, Romania), <b>Marius DEACONU</b> (COMOTI – Romanian Research & Development Institute for Gas Turbines, Bucharest, Romania), <b>Valentin SILIVESTRU</b> (COMOTI – Romanian Research & Development Institute for Gas Turbines, Bucharest, Romania), <b>Constantin-</b>

		<i>European Aircraft</i>	<b>Radu SANDU</b> (S.C. Structural Management Solutions S.R.L., Bucharest, Romania)
15:30 - 15:45	S6.7 (Poster)	<i>Pulse irradiation facility for simulating specific conditions at ELI-NP E5 Experimental Area</i>	<b>Cristian POSTOLACHE, Viorel FUGARU, Mihail-Razvan IOAN, Aurelia CELAREL, Costel CENUSA</b> (Horia Hulubei National Institute for Physics and Nuclear Engineering, Magurele, Ilfov, Romania)
15:45 - 16:00	S6.8 (Poster)	<i>Evaluation of Dosimetry Systems for Radiobiological Researches at ELI-NP</i>	<b>Viorel FUGARU, Cristian POSTOLACHE, Aurelia CELAREL, Costel CENUSA, Mihail-Razvan IOAN, Catalin Stelian TUTA</b> (Horia Hulubei National Institute for Physics and Nuclear Engineering, Magurele, Ilfov, Romania)
16:00	<b>Closing Ceremony</b>		