



MINISTERUL CERCETĂRII ȘI INOVĂRII



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

List of Participants Section 4. Materials and Structures

(in alphabetical order of the first author)

No.	Author(s)	Title of paper	Section number	Company
1	Viorel ANGHEL ¹	Buckling Analysis of Straight Beams with different Boundary Conditions using an Integral Formulation of Corresponding Differential Equations	4	¹ “POLITEHNICA” University of Bucharest, Strength of Materials Department, Splaiul Independenței 313, 060042, Bucharest, Romania
2	Mircea BOCIOAGA ^{*,1} , Ion DIMA ²	Finite Element Method Structural Analysis specific approaches for computing methods of aeronautical component	4	¹ S.C. MAGIC ENGINEERING S.R.L, Str. Mugurului, Nr.4, Ap.1, Brasov 500301, Romania ² INCAS - National Institute for Aerospace Research “Elie Carafoli” B-dul Iuliu Maniu 220, Bucharest 061126, Romania
3	Mihail BOTAN ^{*,1} , Victor MANOLIU ¹ , Radu-Robert PITICESCU ² , Bogdan Stefan VASILE ³ ,	Modern Advanced Thermal Protection Systems for hot components of re-entry vehicles, rocket trust chambers and jet engines	4	¹ INCAS - National Institute for Aerospace Research “Elie Carafoli” B-dul Iuliu Maniu 220, Bucharest 061126, Romania ² National Research and Development Institute for Non-ferrous and Rare Metals – IMNR, INCDMNR-IMNR

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4	Calin-Dumitru COMAN*, Ion DIMA, Ștefan HOTHASIE, George PELIN, Tiberiu SALAORU	Temperature Effects on Damage Mechanisms of Hybrid Metal – Composite Bolted Joints Using SHM Testing Method	4	INCAS – National Institute for Aerospace Research “Elie Carafoli”, Department of Structures and Materials, B-dul Iuliu Maniu 220, Bucharest, 061126, Romania
5	George Catalin CRISTEA ^{*,1} , Alexandru RĂDULESCU ² , Constantin GEORGESCU ³ , Irina RĂDULESCU ² , Lorena DELEANU ³	Influence of the Additive Nature in Soybean Oil on Rheological Behavior	4	¹ INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Bucharest 061126, Romania ² Department of Machine Design and Tribology, “POLITEHNICA” University, Bucharest, Romania ³ Department of Mechanical Engineering, Faculty of Engineering, “Dunarea de Jos” University, Galati, Romania
6	Alina DRAGOMIRESCU ^{*,1} , Mihail BOȚAN ¹ , Victor MANOLIU ¹ , Gheorghe IONESCU ¹ , George Catalin CRISTEA ¹ , Adriana ȘTEFAN ¹	Vitreous enamel used as high temperature protective coatings for hot parts from the turbo engine	4	¹ INCAS - National Institute for Aerospace Research “Elie Carafoli” B-dul Iuliu Maniu 220, Bucharest 061126, Romania
7	Juraj HUB, Adam BLATNÝ	FEM analysis of the helicopter landing gear hinge	4	Department of Air Force and Aircraft Technology, Faculty of Military Technologies, University of Defence, Kounicova 65 / 662 10 Brno / Czech Republic www.unob.cz http://www.unob.cz/en/fmt/structure/k205/Pages/default.aspx
8	Victor MANOLIU ¹ , Gheorghe IONESCU ¹ , Mihail BOTAN ¹ , Radu-Robert PITICESCU ² , George Catalin CRISTEA ¹	Evaluation of Aerospace Materials in Relation to the Thermal Gradient	4	¹ INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Bucharest 061126, Romania ² National Research and Development Institute for Non-ferrous and Rare Metals – IMNR, INCDMNR-IMNR
9	Felix RĂDUICĂ ^{*,1} , Ionel SIMION ¹	Wind turbine optimization using an open-source code written in PHP	4	¹ University “POLITEHNICA” of Bucharest, Department “Engineering Graphics and Industrial Design”, Faculty of Aerospace Engineering, Bucharest, Romania

10	Adrian SALISTEAN ^{*,1} , Doina TOMA ¹ , Claudia NICULESCU ¹ , Sabina OLARU ¹	Integrated UAS System for Intervention in Emergency Situations	4	¹ National R&D Institute for Textile and Leather Bucharest (INCDTP), 16, Lucretiu Patrascanu, 030508 Bucharest, Romania; http://www.certex.ro
11	Catalin Eugen SFAT ¹ , Ion PENCEA ^{*,1} , Victor MANOLIU ² , Gheorhe IONESCU ² , Mihai BRANZEI ¹ , R. amona Nicoleta TURCU ¹ , Mihaită IOAN ³ , Alecs Andrei MATEI ⁴ , Alina POPESCU-ARGES ¹ , Mihai Ovidiu COJOCARU ¹ and Mihai TÂRCOLEA ¹	New proofs concerning the selective diffusion of Cr and of spinellic solid state reactions to the adhesion of a refractory enamel to a Ni-Cr supper alloys	4	¹ Metallic Material Science and Physical Metallurgy Department, University POLITEHNICA of Bucharest, 313 Splaiul Independentei Blvd., 500036, Bucharest, Romania. ² INCAS – National Institute for Aerospace Research "Elie Carafoli", 220 Iuliu Maniu Blvd, Bucharest, Romania ³ S.C.MOELLER TECH S.R.L., Regiei Blvd., nr. 6B, sector 6, Bucharest, Romania ⁴ S.C. AEROSTAR S.A. Bacau, Condorilor street, nr.9, Romania
12	Oleg SMORYGO ^{*,1} , Alexander MARUKOVICH ¹ , A. VAZHNOVA ¹ , Aliaksandr ILYUSHCHANKA ¹ , Adriana STEFAN ² , Cristina-Elisabeta PELIN ²	Lightweight vitreous carbon material: approaches to making open-pore cellular structure	4	¹ Powder Metallurgy Institute, 41 Platonov str., Minsk, 220005, Belarus ² INCAS – National Institute for Aerospace Research "Elie Carafoli" B-dul Iuliu Maniu 220, Bucharest 061126, Romania
13	Stefan SOROHAN ^{*,1} , Dan Mihai CONSTANTINESCU ¹ , Marin SANDU ¹ , Adriana Georgeta SANDU ¹	Evaluation of the effective elastic out- of-plane properties of hexagonal honeycombs by considering the influence of curvature radius and adhesive layer	4	¹ Department of Strength of Materials, University POLITEHNICA of Bucharest, Splaiul Independenței 313, 060042, Bucharest, Romania
14	Mariagrazia VOTTARI, Viktor POCAJT	Material Selection for Lightweight Design in Aerospace and Defence Engineering Workflow	4	Key to Metals AG, Doldertal 32, 8032 Zürich, Switzerland www.totalmateria.com
15	Oleg YENTIN	Special with Topic Additive Manufacturing	4	GE Additive company, https://www.ge.com/additive/ Concept Laser GmbH An der Zeil 8 D-96215 Lichtenfels