

Wednesday 26.10.2016 – “Conference room”, et. 2, corp B

Section 4 – Materials and Structures

Wednesday 26.10.2016. Afternoon session

S4.2 Co-Chairman:

Daniela BARAN
Stefan SOROCHAN

14.³⁰ - 14.⁵⁰

S4.2.1 *Materials in Extreme Environments at ELI-NP*, Theodor ASAVEI¹, Marilena TOMUT², Mariana BOBEICA¹, Sohichiroh AOGAKI¹, Mihail CERNAIANU¹, Daniel URSESCU¹, Dan STUTMAN¹ (¹ELI-NP, “Horia Hulubei” National Institute for Physics and Nuclear Engineering, 30 Reactorului Street, RO-077125, Bucharest-Magurele, Romania; ²GSI Helmholtzzentrum für Schwerionenforschung GmbH, 64291 Darmstadt, Germany).

14.⁵⁰ - 15.¹⁰

S4.2.2 *Dimensioning of a Sandwich Panel with Orthotropic Core Consisting of Lightweight Profiles*, Adriana Georgeta SANDU*, Marin SANDU, Stefan SOROCHAN, Dan Mihai CONSTANTINESCU (“POLITEHNICA” University of Bucharest, Department of Strength of Materials, Splaiul Independenței 313, 060042, Bucharest, Romania).

15.¹⁰ - 15.³⁰

S4.2.3 *Use of Modal Fea for Accurate Estimation of out of Plane Shear Moduli of Honeycomb Cores in Sandwich Panels*, Stefan SOROCHAN*, Dan Mihai CONSTANTINESCU, Marin SANDU, Adriana Georgeta SANDU (“POLITEHNICA” University of Bucharest, Department of Strength of Materials, Splaiul Independenței 313, 060042, Bucharest, Romania).

15.³⁰ - 15.⁵⁰

S4.2.4 *Multipurpose Interaction Chamber for Evaluation of the Outer Space Effects in Condensed Matter*, Cristian POSTOLACHE, Viorel FUGARU (Horia Hulubei National Institute for Physics and Nuclear Engineering, 30, Reactorului St., Magurele, Ilfov, Romania).

15.⁵⁰ - 16.¹⁰

S4.2.5 *Zirconia Compounds Coatings on C Substrates: Combinatorial EB-PVD Deposition and Thermal Characterisation*, Radu-Robert PITICESCU¹, Victor MANOLIU², Alexandru MIHAILESCU³, Arcadii SOBETKII¹, Gheorghe IONESCU², Adrian Mihail MOTOC¹ (¹National R&D Institute for Nonferrous and Rare Metals, 102 Biruintei Blvd, Pantelimon 077145, Romania; ²AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania; ³INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania).

16.¹⁰ - 16.⁴⁰

Coffee Break

16.⁴⁰ - 17.⁰⁰

S4.2.6 *Harness/Container Equipment for Parachutes with Variable Volume*, Claudia NICULESCU, Adrian SALISTEAN, Georgeta POPESCU (National R&D Institute for Textile and Leather Bucharest (INCDTP), 16 Lucretiu Patrascanu, 030508 Bucharest, Romania).

Wednesday 26.10.2016 – “Conference room”, et. 2, corp B

Section 6 – Experimental Investigations in Aerospace Sciences

Wednesday 26.10.2016. Afternoon session

S3.2 Co-Chairman:

Cristian POSTOLACHE

Ioan URSU

17.⁰⁰ - 17.²⁰

S6.2.1 *Radiobiology Experiment Design and Modeling for Space Applications at ELI-NP*, Mariana BOBEICA¹, Sohichiroh AOGAKI¹, Theodor ASAVEI¹, Mihail CERNAIANU¹, Petru GHENUCE¹, Florin NEGOITA¹, Dan STUTMAN^{1,2} (¹“Horia Hulubei” National Institute for Physics and Nuclear Engineering, Extreme Light Infrastructure Nuclear Physics ELI-NP, 30 Reactorului Street, RO-077125, Bucharest-Magurele, Romania; ²Johns Hopkins University, 3400 N Charles St., Baltimore, Maryland 21218, USA).

17.²⁰ - 17.⁴⁰

S6.2.2 *Redox Biology in Space Missions - Towards New Molecular Targets for Radioprotection*, Gina MANDA¹, Ionela Victoria NEAGOE¹, Cristian POSTOLACHE², Mariana BOBEICA³ (¹“Victor Babes” National institute of Pathology, Bucharest, Romania; ²“Horia Hulubei” National Institute for R&D in Physics and Nuclear Engineering, Magurele, Romania; ³ELI-NP, “Horia Hulubei” National Institute for Physics and Nuclear Engineering, Magurele, Romania).

17.⁴⁰ - 18.⁰⁰

S6.2.3 *Characterization of Gamma Radiation Fields Emitted by 60-CO Sources Inside of Multifunctional Interaction Chamber*, Cristian POSTOLACHE, Viorel FUGARU, Sorin BERCEA, Aurelia CELAREL, Constantin CENUSA (Horia Hulubei National Institute for Physics and Nuclear Engineering, 30, Reactorului St., Magurele, Ilfov, Romania).

18.⁰⁰ - 18.²⁰

S6.2.4 *Introduction to Zero Point Energy Sample Calculations With Case Studies for Prolific Applications*, Alexandru IONEL, Tiberiu SALAORU, Mihaela NASTASE (INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania).

18.²⁰ - 18.⁴⁰ ***Q & A***

19.⁰⁰ ***GALA DINNER***

Thursday 27.10.2016– “Conference room”, et. 2, corp B

Section 4 – Materials and Structure

Thursday 27.10.2016. Morning session

S4.1 Co-Chairman:

Adriana STEFAN
Viorel ANGHEL

12.²⁰ - 12.⁴⁰

S4.1.7 *On The Buckling Analysis of a Cold Formed Steel Profile Arch Structure*, Viorel ANGHEL, Stefan SOROHAN, Ioan STOICA (“POLITEHNICA” University of Bucharest, Strength of Materials Department, Splaiul Independentei no. 313, Sector 6, Code 060042, Bucharest, Romania).

12.⁴⁰ - 13.⁰⁰

S4.1.8 *The oxidation behavior of classical thermal barrier coatings exposed to extreme temperature*, Alina DRAGOMIRESCU*¹, Adriana STEFAN¹, Victor MANOLIU², Alexandru MIHAILESCU¹, Gheorghe IONESCU², Mihail BOTAN¹ (¹INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania; ²AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania).

13.⁰⁰ - 14.⁰⁰

Lunch

Thursday 27.10.2016– “Conference room”, et. 2, corp B

Section 4 – Materials and Structure

Thursday 27.10.2016. Afternoon session

S4.2 Co-Chairman:

Radu-Robert PITICESCU
Victor MANOLIU
Ioan URSU

14.⁰⁰ - 14.²⁰

S4.2.9 *Rocket Solid Propellant Alternative Based on Ammonium Dinitramide*, Grigore CICAN, Alexandru-Daniel MITRACHE (“POLITEHNICA” University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania).

14.²⁰ - 14.⁴⁰

S4.2.10 *Advanced Ceramic Coatings in Aeronautics*, Victor MANOLIU¹, Gheorghe IONESCU¹, Mihai BOTAN², Adriana STEFAN², Alina DRAGOMIRESCU*², Alexandru MIHAILESCU² (¹AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania; ²INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania).

14.⁴⁰ - 15.⁰⁰

S4.2.11 *VTVL concept optimisation of the landing gear*, Camelia Elena MUNTEANU, Alexandru-Mihai CISMILIANU (INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania).

15.⁰⁰ - 15.²⁰

S4.2.12 *Mechanical Tests and Model Finite Element Analysis for Ablative Phenolic Composites Nanofilled with Silicon Carbide*, George PELIN^{1,2}, Camelia MUNTEANU¹, Cristina-Elisabeta PELIN¹, Adriana STEFAN¹ (¹INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania; ²“POLITEHNICA” University of Bucharest, Faculty of Applied Chemistry and Materials Science, 1-7 Gh. Polizu St, 011061, Bucharest, Romania).

15.²⁰ - 15.⁴⁰

S4.2.13 *Bird strike damage assessment in the case of an aircraft tailplane*, Cătălin PÎRVU, Corina Elena BOȘCOIANU, Mihai Victor PRICOP (INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania).

15.⁴⁰ - 16.⁰⁰

Coffee Break

Thursday 27.10.2016– “Conference room”, et. 2, corp B

Section 8 – Management in Aerospace Activities

Thursday 27.10.2016. Afternoon session

S8.2 **Co-Chairman:**

Claudia DOBRE
Mircea BOSCOIANU
Aurelian Virgil BALUTA
Casandra Venera BALAN

16.⁰⁰ - 16.²⁰

S8.2.1 *The Mix of Laws Involved in The Activity of the Companies in the Aerospace Field*, Aurelian Virgil BALUTA (“Spiru Haret” University, 13 Ion Ghica Str., District 3, Bucharest, 030045).

16.²⁰ - 16.⁴⁰

S8.2.2 *Communications Principles for Team/ Group Performance in Aerospace Field of Activities*, Aurelian Virgil BALUTA¹, Gabriela IOSIF² (¹“Spiru Haret” University, 13 Ion Ghica Str., District 3, Bucharest, 030045; ²National Institute for R & D in Electrical Engineering ICPE-CA, Splaiul Unirii, Nr. 313, Sector 3, 030138, Bucuresti, Romania).

16.⁴⁰ - 17.⁰⁰

S8.2.3 *Identification of Gaps and Bottlenecks to Innovation in the European Aeronautics Research Landscape*, Claudia DOBRE^{1,2} (¹INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Bucharest 061126, Romania; ²Bucharest University of Economic Studies, ASE, Piata Romana 6, Bucharest 010374, Romania).

17.⁰⁰ - 17.²⁰

S8.2.4 *Weather related general aviation accidents in Europe from a pilot’s point of view*, Vlad MARAZAN (Aircraft Owners and Pilots Association of Romania).

17.²⁰ - 17.⁴⁰

S8.2.5 *Limitations of systemic accident analysis methods*, Casandra Venera BALAN (PIETREANU)*, Valentin-Marian IORDACHE (“POLITEHNICA” University of Bucharest, Aerospace Engineering Department, Polizu Street 1-7, sector 1, Bucharest 011061, Romania).

17.⁴⁰ - 18.⁰⁰

S8.2.6 *The Safety Management System of the Nigerian Aerospace. Corporate Safety Commitment*, Taofik OLAYIWOLA*, Adim Kingsley OBUH (Concord Hangar Limited, Concord Terminal Building, Murtala Muhammed Airport, Lagos, Nigeria).

18.⁰⁰ **CLOSING SESSIONS**