



Conference Program

MONDAY, 23 Sept. 2013

08:45-10:30 hrs

HALL A

**SESSION 1: Welcome Addresses and
Plenary Lectures I**

Chairmen: **George Papanicolaou**, University of Patras, GREECE
Gabriel Jiga, University Politehnica of Bucharest, ROMANIA
Moussa Karama, INP-ENIT, FRANCE

08:45-09:00	<i>Welcome addresses by the Chairmen</i>
09:00-09:30 PL1-1	Ken Reifsnider , University of South Carolina, Columbia SC, USA <i>"The Role of Electromagnetic Effects in the Structural Analysis of Advanced Materials for Transportation and Energy Technologies"</i> By: K. Reifsnider, R. Raihan, P. Majumdar, J. Baker, J.M. Adkins
09:30-10:00 PL1-2	James Seferis Chairman of the board and executive director of GloCal Network Corporation and the non-profit Foundation for Research (F.R.E.E.D.O.M), USA <i>"Carbon Fiber Reinforced Polymers (CFRP): Evolution vs Revolution"</i> By: James Seferis
10:00-10:30 PL1-3	Gad Marom , The Hebrew University of Jerusalem, Israel <i>"Nanocomposites in Structural Applications: Improved Stiffness and Fracture Toughness"</i> By: Gad Marom
10:30-11:00	<i>Coffee - Break</i>

MONDAY, 23 Sept. 2013

11:00-12:30 hrs

HALL A

SESSION 2: Plenary Lectures II

Chairmen:

James Seferis, Chairman of the board and executive director of GloCal Network Corporation and the non-profit Foundation for Research (F.R.E.E.D.O.M), USA

Ken Reifsneider, University of South Carolina, Columbia SC, USA

11:00-11:30 PL2-1	<p>A. G. Gibson , School of Mechanical and Systems Engineering, Newcastle upon Tyne, UK</p> <p><i>"The Challenge of Achieving Cost-Effective Repair Processes for Composite Passenger Aircraft"</i></p> <p>By: A. G. Gibson</p>
11:30-12:00 PL2-2	<p>George Kotsikos , School of Mechanical and Systems Engineering, Newcastle upon Tyne, UK</p> <p><i>"Durability of Marine and Offshore Composites"</i></p> <p>By: George Kotsikos</p>
12:00-12:30 PL2-3	<p>Tomasz Sadowski , Lublin University of Technology, Poland</p> <p><i>"Mechanical Response of Spot Welding-Adhesive Joints"</i></p> <p>by: Tomasz Sadowski¹, Marcin Kneć², Przemysław Golewski¹ Lublin University of Technology, Poland ¹Department of Solid Mechanics, Lublin University of Technology, Poland ²Civil Engineering Laboratory, Lublin University of Technology, Poland</p>
12:30-14:00	<i>Lunch - Break</i>

**MONDAY, 23 Sept. 2013,
14:00-15:45 hrs**

**HALL A
SESSION 3A : MODELLING I**

Chairmen:

Gad Marom, The Hebrew University of Jerusalem, ISRAEL

Alberto D'Amore, The Second University of Naples – SUN, ITALY

14:00-14:30 KNL-S3A	<p>Raj Das <i>"Micromechanical Modelling of Closed-cell Foams using Weaire-Phelan Structures"</i></p> <p>by: "Youming Chen, <u>Raj Das</u>, and Mark Battley Centre for Advanced Composite Materials, Department of Mechanical Engineering, University of Auckland, NEW ZEALAND</p>
14:30-14:45 S3A-P1	<p><i>"Complex rigid-plastic deformation model of tow degree of freedom mechanical system under impulsive force",</i></p> <p>by: <u>A. Rouabhi</u>, M'Hamed Bouguerra University, Boumerdès, ALGERIA</p>
14:45-15:00 S3A-P2	<p><i>"Numerical Modeling and Prediction of Thermomechanical Degradation of Power Electronic Packaging"</i></p> <p>by: <u>Ahlem Baazaoui</u>, Olivier Dalverny, Joel Alexis, Moussa Karama Université de Toulouse; INP/ENIT; LGP ; Tarbes, FRANCE</p>
15:00-15:15 S3A-P3	<p><i>"A Numerical Estimation of Mechanical Energy Storage In Carbon Nanotubes Springs"</i></p> <p>by: <u>A.S. Tsiamaki</u>¹, S.K. Georgantzinis¹, G.I. Giannopoulos², N.K. Anifantis¹ ¹Machine Design Lab, Department of Mechanical and Aeronautics Engineering, University of Patras, 26500 Rio, Greece ²Department of Mechanical Engineering, Technological Educational Institute of Patras, Patras, GREECE</p>
15:15-15:30 S3A-P4	<p><i>"Overview of Heating, Compaction and Consolidation Modeling during Fiber Placement"</i></p> <p>by: <u>Maria Skandali</u>, Sotiris Koussios Faculty of Aerospace Engineering, Delft University of Technology, Delft, THE NETHERLANDS</p>
15:30-15:45 S3A-P5	<p><i>"Investigation of Nano-Doped Adhesives on Al-Al Single Lap Joints. A Numerical Analysis Using Cohesive Zone Model Principle"</i></p> <p>by: <u>E. Fiamegkou</u>, A. Vavouliotis, S. Tsantzas and V. Kostopoulos. Applied Mechanics Laboratory, Department of Mechanical Engineering and Aeronautics, University of Patras University Campus, 26500, Patras, GREECE</p>
15:45-16:00	<i>Coffee - Break</i>

MONDAY, 23 Sept. 2013

14:00-15:45 hrs

HALL B

SESSION 3B : NDT METHODS

Chairmen:

Janis Varna, Lulea University of Technology, SWEDEN

Rui M.Guedes, FEUP, Porto, PORTUGAL

14:00-14:30 KNL-S3B	<p>Anton Hadar <i>"Non-Destructive Evaluations And Numerical Analyses of Flawed Plates Made of Plastic Materials"</i> by: Anton Hadăr, Daniela-Ioana Tudor, Ștefan Dan Pastramă, Mihaela Sava University Politehnica of Bucharest, ROMANIA</p>
14:30-14:45 S3B-P1	<p><i>"Non-Destructive On-Line Damage Monitoring In Composites Under Fatigue Loading"</i> by: Julia Brunbauer, Gerald Pinter Chair of Materials Science and Testing of Polymers, University of Leoben, AUSTRIA</p>
14:45-15:00 S3B-P2	<p><i>"Comparison of Methods to Determine Fibre Length Distribution: X-Ray CT Versus Standard Method"</i> by: Dietmar Salaberger, Susanne Gleiß, Johann Kastner University of Applied Sciences Upper Austria, Wels, AUSTRIA</p>
15:00-15:15 S3B-P3	<p><i>"A Vibration-Based NDT Method For Monitoring the Stiffness of Short Natural Fibres"</i> by: Corn S., Le Moigne N., Jing C., Voisin G., Bergeret A. École des Mines d'Alès, Alès Cedex, FRANCE</p>
15:15-15:30 S3B-P4	<p><i>"Non Linear Electrical Behaviour For Damage Analysis In Carbon Nanotube Reinforced Composite Materials"</i> by: D.Bekas, G. Gkikas, A. E. Bousis,, Alkiviadis S. Paipetis Department of Materials Science and Engineering, University of Ioannina, GREECE</p>
15:30-15:45 S3B-P5	<p><i>"Non-Destructive Testing of Adhesively Bonded Joints Via Lamb Waves. A Numerical Study"</i> by: T.H. Loutas, A. Kotzokolios, V. Mparas, K. Tochniti, V. Kostopoulos Applied Mechanics Laboratory, Mechanical Engineering & Aeronautics Department, University of Patras, GREECE</p>
15:45-16:00	Coffee - Break

MONDAY, 23 Sept. 2013
16:00-17:30 hrs

HALL A
SESSION 4A : MODELLING II

Chairmen:

Raj Das, Centre for Advanced Composite Materials, Department of Mechanical Engineering, University of Auckland, NEW ZEALAND,

Tomasz Sadowski, Lublin University of Technology, POLAND

16:00-16:30 KNL-S4A	<p>Moussa Karama <i>"Identification of the Elastic Properties of Composite Materials"</i></p> <p>by: Victor Munoz¹, Marianne Perrin², Marie-Laetitia Pastor², Hélène Weleman¹, Arthur Cantarel² and <u>Moussa Karama</u>¹</p> <p>¹PRES Université de Toulouse, INP, ENIT-LGP, Tarbes Cedex, FRANCE ²PRES Université de Toulouse, UT3, IUT-ICA, Tarbes Cedex, FRANCE</p>
16:30-16:45 S4A-P1	<p><i>"Finite element modelling to improve structural efficiency of wind turbine blades"</i></p> <p>by: <u>Rosemary Barnes</u> University of New South Wales, AUSTRALIA</p>
16:45-17:00 S4A -P2	<p><i>"Dynamic Modeling of Vibrations Assisted Drilling"</i></p> <p>by: <u>Ladonne M.</u>¹, Landon Y.², Cahuc O.¹, Cherif M.¹, K'Nevez J. Y.¹, de Castelbajac C.³.</p> <p>¹Institut de Mécanique et d'Ingénierie, Bordeaux, FRANCE. ²Institut Clément Ader, Toulouse, FRANCE ³MITIS SAS, Nantes, FRANCE</p>
17:00-17:15 S4A -P3	<p><i>"Finite element model validation for a multilayered honeycomb structure under compressive load"</i></p> <p>By: R. Cormos, <u>H. Petrescu</u>, Fl. Baciuc, A. Hadar University Politehnica of Bucharest, ROMANIA</p>
17:30	END OF ORAL SESSIONS
17:30 - 18:30	POSTER SESSION 1

MONDAY, 23 Sept. 2013

16:00-17:30 hrs

HALL B

SESSION 4B : DESIGN AND MANUFACTURING

Chairmen:

A. G. Gibson , School of Mechanical and Systems Engineering, Newcastle upon Tyne, UK

George Kotsikos , School of Mechanical and Systems Engineering, Newcastle upon Tyne, UK

16:00-16:30 KNL-S4B	<p>D. Kastanis <i>"Self-monitoring of impregnation behavior and curing degree of CF/epoxy composites"</i> by: D. Kastanis¹, R. Schledjewski^{1,2} ¹ Chair for Processing of Composites, Department Polymer Engineering and Science ² Christian Doppler Laboratory for High Efficient Composite Processing Montanuniversitaet Leoben, AUSTRIA</p>
16:30-16:45 S4B -P1	<p><i>"Developing a sealing material: Effect of epoxy modification on specific physical and mechanical properties"</i> by: C. Schoberleitner¹, T. Koch¹, S. Lüftl¹, V.-M. Archodoulaki¹, M. Werderitsch², G. Kuschnig² ¹Institute of Materials Science and Technology, Vienna University of Technology, Favoritenstraße 9-11, 1040 Vienna, AUSTRIA ²Vienna Water, Municipal Department 31, Grabnergasse 4-6, 1050 Vienna, AUSTRIA</p>
16:45-17:00 S4B -P2	<p><i>"Experimental Study on Various Liner Materials for Cryogenic Liquid Hydrogen Storage"</i> by: Ilias G. Tapeinos, Sotiris Koussios Faculty of Aerospace Engineering, Delft University of Technology, THE NETHERLANDS</p>
17:00-17:15 S4B -P3	<p><i>"An in-line cure monitoring method based on kinetic model analysis assisted by thermal sensing"</i> by: S.Konstantopoulos¹, M.Tonejc², E.Fauster², R.Schledjewski^{1,2} ¹Christian Doppler Laboratory for High Efficient Composites Processing ²Chair of Processing of Composites, Department of Polymer Engineering and Science, Montanuniversität Leoben, Otto Glöckel-Straße 2, A-8700 Leoben, AUSTRIA</p>
17:30	END OF ORAL SESSIONS
17:30 - 18:30	POSTER SESSION 1

TUESDAY, 24 Sept. 2013
09:00-10:30 hrs

HALL A
SESSION 5: *Plenary Lectures III*

Chairmen:

Janis Varna, Lulea University of Technology, SWEDEN

Alberto D'Amore, The Second University of Naples – SUN, ITALY

09:00-09:30 PL5-1	Ralf Schledjewski^{1,2} ¹ Christian Doppler Laboratory for High Efficient Composites Processing ² Chair of Processing of Composites, Department of Polymer Engineering and Science Montanuniversität Leoben, AUSTRIA <i>"High Efficient Composite Processing"</i>
09:30-10:00 PL5-2	Antonio Torres Marques Faculdade de Engenharia da Universidade do Porto, R. Dr. Roberto Frias, Porto, PORTUGAL <i>"Life Cycle Analysis of Design And Manufacturing Strategies for a Composite Bus"</i>
10:00-10:30 PL5-3	S. Koussios , Faculty of Aerospace Engineering, Delft University of Technology, THE NETHERLANDS <i>"Composite Pressure Vessels: Design for Manufacturing"</i>
10:30-11:00	<i>Coffee - Break</i>

TUESDAY, 24 Sept. 2013

11:00-12:30 hrs

HALL A

SESSION 6: Plenary Lectures IV

Chairmen:

Ralf Schledjewski, 1Christian Doppler Laboratory for High Efficient Composites Processing
2Chair of Processing of Composites, Department of Polymer Engineering and Science MontanuniversitätLeoben,
AUSTRIA

Antonio Torres Marques, Faculdade de Engenharia da Universidade do Porto, R. Dr. Roberto Frias, Porto,
PORTUGAL

11:00-11:30 PL6-1	<p>Janis Varna, Lulea University of Technology, SWEDEN</p> <p><i>"Microdamage Development and Stiffness Changes in UD Composites Subjected to Axial Cyclic Loading"</i></p> <p>By: Janis Varna and Andrejs Pupurs</p>
11:30-12:00 PL6-2	<p>Alberto D'Amore, The Second University of Naples – SUN, ITALY</p> <p><i>"Modelling the Residual Stresses-Dominated Fracture in Large Volume Glassy Polymers: A Constitutive Equation of Non Equilibrium Relaxation Times Derived from the Potentials of Secondary non Bonded Interactions"</i></p> <p>by : Alberto D'Amore, Luigi Grassia, Massimiliano Fraldi, Pasquale Verde</p>
12:00-12:30 PL6-3	<p>E.A.Kontou, Department of Applied Mathematical and Physical Sciences, Section of Mechanics, National Technical University of Athens, GREECE</p> <p><i>"A Theoretical Approach for Non-Linear Viscoelasticity-Viscoplasticity and Creep Failure of Polymeric Structures"</i></p> <p>By: E.A.Kontou and G.D.Spathis</p>
12:30-14:00	Lunch - Break

TUESDAY, 24 Sept. 2013,
14:00-15:45 hrs

HALL A
SESSION 7A : IMPACT-FATIGUE AND DAMAGE I

Chairmen:

S. Koussios , Faculty of Aerospace Engineering, Delft University of Technology, THE NETHERLANDS
Moussa Karama, PRES Université de Toulouse, INP, ENIT-LGP, Tarbes, FRANCE

14:00-14:30	KNL-S7A	<p>D.A. Zacharopoulos <i>"Prediction of the Crack Path in Specimen where Prevails the Mode III Displacement"</i> by: F. Th. Givannaki, St. G. Xeidakis, D. A. Zacharopoulos School of Engineering, Democritus University of Thrace, Xanthi, GREECE</p>
14:30-14:45	S7A-P1	<p><i>"Controlled Impact Testing of Pre-Preg Carbon Fibre Composites With and Without Carbon Nanotubes and/or SMA Wires"</i> K. Sofocleous¹, V. Drakonakis², S. L. Ogin³ and H. Doumanidis¹ ¹ University of Cyprus, CYPRUS, ² Cyprus University of Technology, ³ University of Surrey, UK</p>
14:45-15:00	S7A-P2	<p><i>"Evaluation Of Mechanical Properties of Dissimilar Friction Stir Welded Aluminum Alloys through Micro- and Nano- Indentation Techniques "</i> C.A. Charitidis¹, D.K. Perivoliotis¹, E.P. Koumoulos¹, D.A. Dragatogiannis¹, I.A. Kartsonakis¹, D.I. Pantelis², N.M Daniolos², P. N. Karakizis² ¹National Technical University of Athens, School of Chemical Engineering, Greece ²National Technical University of Athens, School of Naval Architecture and Marine, Athens, GREECE</p>
15:00-15:15	S7A-P3	<p><i>"Failure modes in offshore composite gratings before and after fire"</i> by: G. Kotsikos, M. Konstantakopoulou, A. Deligiani, P. Di-Modica and A.G. Gibson School of Mechanical and Systems Engineering, Newcastle upon Tyne, UK</p>
15:15-15:30	S7A-P4	<p><i>"Fire Performance of Metal Composite Laminates"</i> by: S. Christke, G. Kotsikos, A.G. Gibson School of Mechanical and Systems Engineering, University of Newcastle, Newcastle upon Tyne, UK</p>
15:30-15:45	S7A-P5	<p><i>"A Study on the Initiation of Composite Delamination under Low-Velocity Impact"</i> Z. Shen¹, Y.G. Xu¹, W. Tiu², Y.Z. Xu², A. Chrysanthou¹ ¹School of Engineering and Technology, University of Hertfordshire, UK ²High North Technology Centre, Narvik University College, NORWAY</p>
15:45-16:00	Coffee - Break	

TUESDAY, 24 Sept. 2013

14:00-15:45 hrs

HALL B

SESSION 7B : ENVIRONMENTAL EFFECTS

Chairmen:

Guang Li, Donghua University, Shanghai, CHINA

Ali A.M. Yassene, Radiation Chemistry Department, NCRRT, Atomic Energy Authority, EGYPT

14:00-14:30	KNL-S7B	<p>Dionysios E. Mouzakis <i>"Application of Time Temperature Superposition in Carbon Fiber Reinforced Composite Plaques under Accelerated Aging Conditions"</i> by: Dionysios E. Mouzakis, S.P. Zaoutsos Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Educational Institute of Larissa, GREECE</p>
14:30-14:45	S7B-P1	<p><i>"Spectroscopic Characterization of Thermal Degradation in Thermoplastic Polyurethanes"</i> K. Bruckmoser, K. Resch Materials Science and Testing of Polymers, University of Leoben, AUSTRIA</p>
14:45-15:00	S7B-P2	<p><i>'The effect of CNTs modified matrix of epoxy CFRPs on the hydrothermal behavior of the material: Evaluation of the water uptaking using electrical resistance measurements.'</i> A. Kotrotsos, A. Vavouliotis, S. Tsantalis, V. Kostopoulos Applied Mechanics Laboratory, Department of Mechanical Engineering and Aeronautics, University of Patras, GREECE</p>
15:00-15:15	S7B-P3	<p><i>"Thermo-Oxidative Ageing Effects on the Properties of Carbon Fiber Reinforced Cyanate Esters"</i> E. Fiamegkou, A.Vavouliotis Evgenia Kollia V. Kostopoulos Applied Mechanics Laboratory, Department of Mechanical Engineering and Aeronautics, University of Patras, GREECE</p>
15:15-15:30	S7B-P4	<p><i>"The Influence of Pore Sizes on Microwave Absorption of Porous Carbon Fiber Filled Composites"</i> Guang Li, Junhong Jin, Shenglin Yang, Jianming Jiang State Key Laboratory for Modification of Chemical Fibers and Polymer Materials College of Material Science and Engineering, Donghua University, Shanghai 201620, CHINA</p>
15:30-15:45	S7B-P5	<p><i>"Effect of Gamma - Irradiation on Physico - Mechanical Properties of Epoxy / Polyacrylonitrile-Butadiene-Styrene Blend"</i> Ali A.M. Yassene Radiation Chemistry Department, NCRRT, Atomic Energy Authority, EGYPT</p>
15:45-16:00	S7B-P6	<p><i>"Developing Nanophase Epocast 50-A1/946 Epoxy for Bonded Joints"</i> U.A. Khashaba, A. A. Aljinaidi, M. Hamed Department of Mechanical Engineering, Faculty of Engineering, King Abdulaziz University, P.O. Box 80204, Jeddah 21589, SAUDI ARABIA</p>
15:45-16:00	Coffee - Break	

TUESDAY, 24 Sept. 2013
16:00-17:30 hrs

HALL A
SESSION 8A : IMPACT-FATIGUE AND DAMAGE II

Chairmen:

D.A. Zacharopoulos, School of Engineering, Democritus University of Thrace, Xanthi, GREECE

T.H. Loutas, Applied Mechanics Laboratory, Mechanical Engineering & Aeronautics Department, University of Patras, GREECE

16:00-16:30 KNL-S8A	<p>Dionysios E. Mouzakis <i>"Out-of-Plane Compression after Impact Response of Carbon Fiber Epoxy Laminated Skin and Polyurethane Core Sandwich Composites"</i> Dionysios E. Mouzakis, Stefanos P. Zaoutsos and Panagiotis Vouthounis</p>
16:30-16:45 S8A-P1	<p><i>"Approach to Measure the Influence of Experimental Parameters on Fatigue Crack Growth and Heat Build-Up In Rubber"</i> Franziska Stadlbauer, Thomas Koch, Vasiliki-Maria Archodoulaki Institute of Materials Science and Technology, Vienna University of Technology, Vienna, AUSTRIA</p>
16:45-17:00 S8A -P2	<p><i>"Fatigue Properties of Polyurethane Based High Performance Composites"</i> S.Gloggnitzer, G. Pilz, T.Buchsteiner Chair of Material Science and Testing of Plastics, Department of Polymer Engineering and Science, University of Leoben, AUSTRIA</p>
17:00-17:15 S8A -P3	<p><i>"Estimation of Fatigue Limit by Means of Vickers Hardness"</i> S. Saberifar¹, S. Mortezaei², A.R. Mashreghi², A.A. Abedi¹ ¹R&D Department , Iran Alloy Steel Company (IASCO), IRAN ²Department of Mining and Metallurgical Engineering, Yazd University, Safayieh, IRAN</p>
17:15-17:30 S8A -P4	<p><i>"Experimental Data on Evanescent Longitudinal Waves Propagation In Fluid Filled Pipes"</i> Cristian Cătălin PETRE¹, Mihai Valentin PREDOI², Ovidiu VASILE², Marian SOARE³ ¹Department of Strength of Materials, University Politehnica Bucharest, ²Department of Mechanics, University Politehnica Bucharest, ³S.C. Nuclear NDT Research & Services S.R.L, Bucharest, ROMANIA</p>
17:30	END OF ORAL SESSIONS
17:30 - 18:30	POSTER SESSION 2

TUESDAY, 24 Sept. 2013

16:00-17:30 hrs

HALL B

SESSION 8B : : VISCOELASTIC BEHAVIOR

Chairmen:

S.P.Zaoutsos, Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Educational Institute of Larissa, GREECE

E.A.Kontou, Department of Applied Mathematical and Physical Sciences, Section of Mechanics, National Technical University of Athens, GREECE

16:00-16:30 KNL-S8B	<p>S.P.Zaoutsos <i>"Experimental Characterization of Creep-Fatigue Interaction Loading Modes on Carbon Fiber Reinforced Polymers"</i></p> <p><u>Stefanos. P. Zaoutsos</u>¹, Dionysios E. Mouzakis¹, Panagiotis Vouthounis²</p> <p>¹Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Educational Institute of Larissa, Larissa, GREECE ²Department of Civil and Infrastructure Engineering, Technological Educational Institute of Athens, GREECE</p>
16:30-16:45 S8B -P1	<p><i>"Thermomechanical and Rheological Response of Biodegradable-Matrix Composites"</i></p> <p>P. Georgiopoulos, <u>E.A.Kontou</u> Department of Applied Mathematical and Physical Sciences, Section of Mechanics, National Technical University of Athens, GREECE</p>
16:45-17:00 S8B -P2	<p><i>"Creep and Relaxation Behavior of Micro and Nano TiO₂ Particulate Epoxies"</i></p> <p><u>D.V.Portan</u>, Mihai Vazdoaga, Adina Coordoneanu, L. Kontaxis, G.C.Papanicolaou Composite Materials Group, Department of Mechanical and Aeronautics Engineering, University of Patras, GREECE</p>
17:00-17:15 S8B -P3	<p><i>"Mechanical and Stress Relaxation Behavior of Starch Powder-Epoxy Resin Composites"</i></p> <p><u>L.Kontaxis</u>, A.Koutsomitopoulou, G.C.Papanicolaou Composite Materials Group, Department of Mechanical and Aeronautics Engineering, University of Patras, GREECE</p>
17:15-17:30 S8B -P4	<p><i>"Creep Behavior of CF/PPS Composites"</i></p> <p><u>M.H. Motta Dias</u>¹, K.M.B. Jansen², H. Luinge³, K. Nayak⁴ and H.E.N Bersee¹</p> <p>¹Faculty of Aerospace Engineering, Delft University of Technology, The Netherlands ²Department of Design Engineering, Delft University of Technology, The Netherlands; ³TenCate Advanced Composites BV, Campbellweg 30, 7440 AA Nijverdal, The Netherlands; ⁴Airborne Technology Centre BV, THE NETHERLANDS</p>
17:30	END OF ORAL SESSIONS
17:30 - 18:30	POSTER SESSION 2

WEDNESDAY, 25 Sept. 2013
09:00-10:30 hrs

HALL A
SESSION 9: *Plenary Lectures V*

Chairmen:

N. Le Moigne, Ecole des Mines d'Alès – Centre des Matériaux des Mines d'Alès (C2MA) – FRANCE

Vasiliki-Maria Archodoulaki, Vienna University of Technology, Institute of Materials Science and Technology, Vienna, AUSTRIA

09:00-09:30 PL9-1	<p>Pantelakis Spyros, Laboratory of Technology & Strength of Materials, Department of Mechanical Engineering & Aeronautics, University of Patras, GREECE</p> <p><i>"The Effects of Pre-Bond and After-Bond Contamination on the Fracture Toughness of Adhesively Bonded Composite Joints"</i></p> <p>By: Sp. Pantelakis, K.I. Tserpes, D.N. Markatos</p>
09:30-10:00 PL9-2	<p>V.A.Kostopoulos, Applied Mechanics Lab., Department of Mechanical Engineering & Aeronautics, University of Patras, GREECE</p> <p><i>"Monitoring of the Structural Integrity of Composite Aero-Structures using Electric Field based methodologies"</i></p>
10:00-10:30 PL9-3	<p>Paipetis Alkis, Dept. of Materials Science & Engineering, Univ. of Ioannina, GREECE</p> <p><i>"Antagonistic Effects Related to the Reinforcement of Nano-Enhanced Composites"</i></p> <p>By: <u>A.S. Paipetis</u>, G. Gkikas</p>
10:30-11:00	<i>Coffee - Break</i>

WEDNESDAY, 25 Sept. 2013

11:00-12:30 hrs

HALL A

SESSION 10: Plenary Lectures VI

Chairmen:

V.A.Kostopoulos, Applied Mechanics Lab., Department of Mechanical Engineering & Aeronautics,
University of Patras, GR-265 00 Patras, GREECE

A.S.Paipetis, , Dept. of Materials Science & Engineering, Univ. of Ioannina, GREECE

11:00-11:30 PL10-1	<p>Nicolas Le Moigne, Ecole des Mines d'Alès – Centre des Matériaux des Mines d'Alès (C2MA) – FRANCE</p> <p><i>"From Glass Fiber to Natural Fiber Reinforced Composites: a New Challenge for the Study of the Fiber/Matrix Interface"</i></p> <p>by: A .Bergeret and <u>N. Le Moigne</u></p>
11:30-12:00 PL10-2	<p>Rui M.Guedes, FEUP, Porto, PORTUGAL</p> <p><i>"Biodegradable Polymers for Ligament Repair: Mechanical Behavior During Degradation"</i></p>
12:00-12:30 PL10-3	<p>Nektaria-Marianthi Barkoula, Department of Materials Science and Engineering, University of Ioannina, GREECE</p> <p><i>"Towards the Development of Biodegradable, Biobased Nanocomposites for Packaging Applications"</i></p>
12:30-14:00	<i>Lunch - Break</i>

WEDNESDAY, 25 Sept. 2013

14:00-15:45 hrs

HALL A

SESSION 11A : NANOMATERIALS AND NANOCOMPOSITES

Chairmen:

Dionysios E. Mouzakis, Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Educational Institute of Larissa, GREECE

James Seferis, Chairman of the board and executive director of GloCal Network Corporation and the non-profit Foundation for Research (F.R.E.E.D.O.M), USA

14:00-14:30 KNL-S11A	<p>James Seferis, <i>"Carbon Nanotubes Reinforced Electrospun Cellulose Acetate Nanofibers Utilized as an Nano-Enabling Interlayer System for FeatherweightTMComposites"</i>, V. M. Drakonakis¹, C. C. Doumanidis², J. C. Seferis³, ¹Cyprus University of Technology, 30 Archbishop Kyprianou, 3036 Lemessos, CYPRUS ²University of Cyprus, PO Box 20537, 1678 Lefkosia, CYPRUS ³Polymeric Composites Laboratory, GloCal / F.R.E.E.D.O.M., Seattle WA, USA</p>
14:30-14:45 S11A-P1	<p><i>"Highly Elastic Segmented Polyurethane Elastomers and Polyurethane Nanocomposites"</i> Milena Špírková and Rafał Poręba Institute of Macromolecular Chemistry AS CR, v.v.i., Praha, CZECH REPUBLIC</p>
14:45-15:00 S11A-P2	<p><i>"The effect of CNTs on the fracture of adhesively bonded metal-composite joints"</i> A. Deligianni, M. Konstantakopoulou, J.K. Humphrey, G Kotsikos, UK</p>
15:00-15:15 S11A-P3	<p><i>"Characterization of interfacial properties of different nanostructures grown or grafted onto carbon fibers"</i> Kyriaki Tsirka, Alkiviadis S. Paipetis Department of Materials Science and Engineering, University of Ioannina, GREECE</p>
15:15-15:30 S11A-P4	<p><i>"Friction properties of sisal fiber reinforced nano-SiO2 phenol formaldehyde resin brake composites"</i> Chun Wei, Ming Zeng , Xuemei Xiong, Hongxia Liu, Kun Luo, Jian lv Guilin University of Technology, Guilin, CHINA</p>
15:45-16:00	Coffee - Break

WEDNESDAY, 25 Sept. 2013 14:00-15:45 hrs HALL B SESSION 11B : STRUCTURES Chairmen: Anton Hadar , University Politehnica of Bucharest, Bucharest, ROMANIA S. Pantelakis , Laboratory of Technology & Strength of Materials, Department of Mechanical Engineering & Aeronautics, University of Patras, GREECE	
14:00-14:30 KNL-S11B	A. Xydou <i>"Diffusion bonding of OFE copper disks for the Production of clic accelerating structures"</i> A. Xydou ¹ , G. Riddone ¹ , F. Rossi ¹ , A. Solodko ² , E. Gazis ¹ , V. Kostopoulos ³ , G. C. Papanicolaou ³ ¹ CERN, Geneva, SWITZERLAND ² JINR, Dubna, RUSSIA ³ Department of Mechanical Engineering and Aeronautics, University of Patras, GREECE
14:30-14:45 S11B-P1	<i>"Damping of Vibrations of Sandwich Bars with Natural Resin Middle Layer Reinforced with Natural Fibre Fabric"</i> by: Anton Hadar ¹ , Mariana - Nicoleta Nica ¹ , Dumitru Bolcu ² , Marius Marinel Stănescu ² , Florin Baci ¹ , Cosmin Mihai Mirițoiu ² ¹ University Politehnica of Bucharest, Bucharest, ROMANIA ² University of Craiova, Craiova, ROMANIA
14:45-15:00 S11B-P2	Seismic Evaluation of FRP strengthened RC frame subjected to cyclic loading M.Z. Kabir and SH. Alaedini Department of Civil and Environmental Engineering, AmirKabir University of Technology, Tehran, IRAN
15:00-15:15 S11B-P3	<i>"Static and Dynamic Tests Performed at a Flat Wagon"</i> Nicolae SANDU ¹ , Nicușor Laurențiu ZAHARIA ² ¹ Deputy Manager, Romanian Railway Authority – AFER, ROMANIA ² Head of Rolling Stock Laboratory - AFER, ROMANIA
15:15-15:30 S11B-P4	<i>"Economic investigation of impact damage using non-destruction thermography analysis on structural automotive parts"</i> Alexander Maier ¹ , Roland Schmidt ² , Beate Oswald-Tranta ² , Ralf Schledjewski ^{1,3} ¹ Chair of Processing of Composites, University of Leoben, AUSTRIA ² Chair of Automation, University of Leoben, AUSTRIA ³ Christian Doppler Laboratory, Christian Doppler Forschungsgesellschaft, AUSTRIA
15:30-15:45 S11B-P5	<i>"Manufacture of wind turbine blades with improved mechanical properties"</i> O. Al-Qabandi ¹ , Anjali De Silva ¹ and M. Bassyouni ^{2,3} ¹ School of Engineering & Built Environment, Glasgow Caledonian University, Scotland, UK ² Department of Chemical and Materials Engineering, King Abdulaziz University Rabigh, SAUDI ARABIA ³ Department of Chemical Engineering, Higher Technological Institute, Tenth of Ramadan city, EGYPT
15:45-16:00	Coffee - Break

WEDNESDAY, 25 Sept. 2013

16:00-17:45 hrs

HALL A

SESSION 12A : METALS AND METAL ALLOYS

Chairmen:

G.Jiga, Department of Strength of Materials, "Politehnica" University of Bucharest, ROMANIA

S.P. Zaoutsos, Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Educational Institute of Larissa, GREECE

16:00-16:30 KNL-S12A	<p>Gabriel Jiga <i>"New Solutions For Higher Impact Energy Absorbtion of Safety Guardrails"</i> <u>Gabriel Jiga</u>¹, Ștefan Stamin² ¹Department of Strength of Materials, "Politehnica" University of Bucharest, ROMANIA ²SEGULA Technologies, Passive Security Service, ROMANIA</p>
16:30-16:45 S12A-P1	<p><i>"Relation Between Tool Wear, Cutting Process and Chip Morphology During Ti5553 Dry Turning"</i>, <u>V. WAGNER</u>¹, G. DESSEIN¹, M. BAILI¹ ¹Université de Toulouse, INP de Toulouse, ENI de Tarbes, Laboratoire Génie de Production, FRANCE</p>
16:45-17:00 S12A -P2	<p><i>"Machinability of Titanium Alloys (TA6V αβ, β) and workpiece deformation"</i> F. BARELLI¹, <u>G. DESSEIN</u>¹, P. DARNIS², R. LAHEURTE², O. CAHUC², M. MOUSSEIGNE³, W. RUBIO³ ¹Université de Toulouse, ENIT-INPT, Laboratoire Génie de Production, F-65016 Tarbes, FRANCE ²Université de Bordeaux, I2M, UMR 5295, F-33400 Talence, FRANCE ³Université de Toulouse, Institut Clément Ader, F-31062 Toulouse, FRANCE</p>
17:00-17:15 S12A -P3	<p><i>"Dangerous ferromagnetic objects magnetovision detection system"</i> <u>Michał Nowicki</u>, Roman Szewczyk Institute of Metrology and Biomedical Engineering, Warsaw University of Technology, POLAND</p>
17:15-17:30 S12A -P4	<p><i>"Influence of compaction and degassing on the properties of submicron WCCO produced by the PPS method"</i> <u>Joanna Wachowicz</u>, Marcin Rosinski, Radosław Zielinski, Tomasz Truszkowski Faculty of Materials Science and Engineering, Warsaw University of Technology, POLAND</p>
17:30-17:45 S12A -P5	<p><i>"Potentiometric and thermodynamic studies of N, N'-bis(4-hydroxyacetophenone) ethylenediamine (BHAEN) and its metal complexes"</i> <u>Aly A. A. Soliman</u>^{1,2}, Marguerite A. Wassef¹, Hoda A. Bayoumi¹ ¹ Women's College for Arts, Science and Education, Ain Shams University, Cairo, EGYPT Asma Fahmy st. ,Heliopolis, Cairo, Egypt. ² (Current address) Faculty of science, Jazan University, Jazan, KSA.Jazan city, KSA</p>
17:45	END OF ORAL SESSIONS
17:45 - 19:00	POSTER SESSION 3

WEDNESDAY, 25 Sept. 2013

16:00-17:30 hrs

HALL B

SESSION 12B : : BIOMATERIALS

Chairmen:

T. Papadopoulos, Department of Biomaterials, School of Dentistry, University of Athens, GREECE

Nektaria-Marianthi Barkoula, Department of Materials Science and Engineering, University of Ioannina, GREECE

16:00-16:30 KNL-S12B	Triantafillos Papadopoulos <i>"The Role of Surface Treatment of Dental Implants in Osseointegration"</i> Department of Biomaterials, School of Dentistry, University of Athens, GREECE
16:30-16:45 S12B-P1	"Mechanical study of biodegradable nanocomposites for anterior cruciate ligament replacement" Viviana C. Pinto ² , José Xavier ³ , Artur Pinto ^{4,5} , Fernão D. Magalhães ⁶ , Rui M. Guedes ⁷ ¹ INEGI, UP, Porto, Portugal ² LABIOMEP - Porto BiomechanicsLaboratory, UP, Porto, Portugal ³ CITAB, UTAD, Vila Real, Portugal ⁴ LEPAE, FEUP, Porto, Portugal ⁵ FEUP, Porto, PORTUGAL
16:45-17:00 S12B-P2	"Numerical simulation of biodegradable polymers considering viscoplastic behaviour" André Vieira ¹ , Rui Guedes ² , Volnei Tita ¹ ¹ Aeronautical Engineering Department, São Carlos School of Engineering, University of São Paulo, São Carlos, São Paulo, BRAZIL ² Mechanical Engineering Department, Faculty of Engineering of University of Porto, Porto, PORTUGAL
17:00-17:15 S12B -P3	"Wear Behavior of the Titanium Biomedical Alloys From The System Ti-Mo" Nicolae Ghiban, Brândușa Ghiban , Gabriel Jiga, Andreea Mihaela Magheru ¹ University Politehnica Bucharest, ROMANIA
17:15-17:30 S12B -P4	"Mechanical Behavior of CoCrMoTi Alloys for Dental Applications" Brandusa Ghiban ¹ , Nicolae Ghiban ¹ , Ildiko Peter ² , Mario Rosso ² , Gabriel Jiga ¹ , Alexandru Ghiban ¹ , Ioan Alexandru Dan ³ ¹ University Politehnica Bucharest, ROMANIA ² Politecnico di Torino, ITALY ³ R&D Consulting S.R.L., ROMANIA
17:30	END OF ORAL SESSIONS
17:30 - 19:00	POSTER SESSION 3

POSTER SESSION 1 (PS1) - Monday 23 Sep. 2013

Code Nr.	Title
PS1.1	"Manufacturing and Characterization of Innovative Polymer matrix-Luffa Semi-Green Composites", by: E.Psarra , D.V.Portan, G.C.Papanicolaou, Univ.of Patras, Greece
PS1.2	"TiO ₂ Nanoparticles-Epoxy Matrix Nanocomposites Manufacturing and Mechanical Characterization"; by: C.Calin , A.Koutsomitopoulou, D.V.Portan, G.C.Papanicolaou, University of Patras, Greece
PS1.3	"The Role of the TiO ₂ Nanotubes on the Titanium-Polymer Interfacial Pull-out Mechanism", by: S. Economidou , D.V.Portan, G.C.Papanicolaou, Univ.of Patras, Greece
PS1.4	" Experimental and Analytical Investigation of the Interfacial Stress Field in Single-Lap Joints between Similar and Dissimilar Materials", by: Ch. Kusiatza , D.M. Sultan, D.V.Portan, G.C.Papanicolaou, Univ.of Patras, Greece
PS1.5	"Interlayer Effect on the Electrical Conductivity of Carbon Fiber Reinforced Composites", by: I.Leonidou , E.Kyriakides, K.Sofocleous, V.Drakonakis, M. Fyrillas, C.Doumanidis, University of Cyprus, Cyprus
PS1.6	"Improved Mode II Delamination Fracture Toughness of Composite Materials by Selective Placement of Protein-Surface treated CNT", by: Tanya Lyashenko ¹ , Joseph Fitoussi ² , Gad Marom ¹ , ¹ The Hebrew University of Jerusalem, Israel ² École Nationale Supérieure d'Arts et Métiers, Paris, France
PS1.7	"Orientated CNT-Polypropylene Nanocomposite Films Made from Extruded Monofilaments", by: Golan A. Tanami ¹ , Ellen Wachtel ² and Gad Marom ¹ ¹ The Hebrew University of Jerusalem, Israel ² Weizmann Institute of Science, Rehovot, Israel
PS1.8	"Porous Hydroxyapatite with Environmental Applications", by: S.L.Iconaru , C. Ciobanu, A. Costescu, M. Motelica, P. Le Coustumer, D. Predoi, Univeristy Politehnica of Bucharest, Romania
PS1.9	"Effects of New Thermostats on Polymers: A Case Study" , by: Sunita Andreea Moga ¹ , Nicolae Goga ^{1,2} , Anton Hadar ¹ , ¹ University Politehnica of Bucharest, Bucharest, Romania ² Molecular Dynamics Group, University of Groningen, Groningen, the Netherlands
PS1.10	"Finite Elements Model of Evanescent Longitudinal Waves Propagation In Fluid Filled Pipes", by: Mihai Valentin Predoi , Cristian Cătălin Petre University Politehnica Bucharest, Bucharest, Romania
PS1.11	"Experimental Study of Sandwich Multilayer Reinforced by Glass fiber and Agglomerated Cork" by: Hami Brahimi , by: Irekti Amar, Bezzazi Boudjema, Aribi Chouab and Mir Abdellah University M'Hamed Bougara, Algeria
PS1.12	"Study of Biomass", by: Didouche Yasmima-Fadhéla , University of Boumerdes, Algeria
PS1.13	"Free Vibration of Functionally Graded Sandwich Plates Using four Variable Refined Plate Theory" by: Lazreg Hadji ^{1,2} , Zoubida Khelifa ^{1,2} , Zohra Abdelhak ^{1,2} , Tahar Hassaine Daouadji ^{1,2} , Tlidji Youcef ^{1,2} , El Abess Adda Bedia ² ¹ Université de Sidi Bel Abbès, Algeria ² Université Ibn Khaldoun, Algeria
PS1.14	"Effect of Calcination Temperature on Multiferroic Bismuth Ferrite Nanoparticles" by: Mohammad Derakhshani, S.A. Seyyed Ebrahimi Center of Excellence for Magnetic Materials, School of Metallurgy and Materials, College of Engineering, University of Tehran, Tehran, Iran

Code Nr.	Title
PS1.15	"Influence of UV Irradiation on Starch Film" , by: ¹ Bajer K. , ² Bajer D., ² Kaczmarek H.; ¹ <i>Institute for Engineering of Polymer Materials and Dyes, Torun, Poland</i> ² <i>Nicolaus Copernicus University, Torun, Poland</i>
PS1.16	"Equipment Design and Structural Analysis of CFRP Electronics Housing vs. Aluminium Electronics Housing for an ADPMS"; by: Sorin DRĂGHICI , Florin BACIU, Anton HADĂR, Raluca VOICU, <i>University Politehnica, Bucharest, Romania</i>
PS1.17	"Out-of-Plane Compression after Impact Response of Carbon Fiber Epoxy Laminated Skin and Polyurethane Core Sandwich Composites", Dionysios E. Mouzakis ¹ , Stefanos P. Zaoutsos ¹ and Panagiotis Vouthounis ² ¹ Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Educational Institute of Larissa, Greece ² Department of Civil and Infrastructure Engineering, Technological Education Institute of Athens, GREECE
POSTER SESSION 2 (PS2) - Tuesday 24 Sep. 2013	
PS2.1	"Magnetoelastic Effect Based Methodology of Stress Determination in Construction Steel Elements", by: Dorota Jackiewicz , Roman Szewczyk, Jacek Salach, Adam Bieńkowski and Maciej Kachniarz, <i>Institute of Metrology and Biomedical Engineering, Warsaw University of Technology, Poland</i>
PS2.2	"Eddy Current Tomography for Testing of Ferromagnetic and non Magnetic Materials" by: Jacek Salach , Roman Szewczyk and D. Jackiewicz, <i>Institute of Metrology and Biomedical Engineering, Warsaw University of Technology, Warsaw, Poland</i>
PS2.3	"Mechanical Testing of Thin Film Nanocomposite", by: Frantisek Cerny , Petr Vlcak, Tomas Horazdovsky, Josef Sepitka, Martin Klima and Libor Dvorak, <i>Czech Technical University in Prague, Prague, Czech Republic</i>
PS2.4	"Study of resin content influence on flexural strength and fatigue of honeycomb sandwich structures", by: Ladislav Fojtl , Soňa Rusnáková, Milan Žaludek <i>Department of Production Engineering, FT TBU in Zlín, Czech Republic</i>
PS2.5	"Barium Ferrite/Epoxy Resin Nanocomposite as a Multifunctional Nanomaterial System: Development, Dielectric Response, Magnetic Properties and Energy Storage" by: Th. Speliotis ¹ , E. G. Moshopoulou ¹ , S. Thanos ¹ , A. Kanapitsas ² , C. Tsonos ² , G. C. Psarras ³ ¹ NCSR "Demokritos", Athens Greece; ² Technological Educational Institute of Lamia, Greece. ³ University of Patras, Patras 26504, Greece
PS2.6	"Barium Titanate- Epoxy Resin Nanocomposites: Development, Dielectric Response, Functionality and Energy Storage"; by: A.C. Patsidis ¹ , A.Kanapitsas ² , C.Tsonos ² , G.C. Psarras ¹ ¹ University of Patras, Greece; ² Technological Educational Institute of Lamia, Greece
PS2.7	" Effect of Sea Water Absorption on the Mechanical Behavior of Polymeric Composites", by: I. Devetzoglou , G.C.Papanicolaou; <i>University of Patras, Greece</i>
PS2.8	"An Innovative Technique for Thermosets' Curing and Self Healing of Thermoplastics ", by: S.Verbis , A. Kotrotsos, G.C.Papanicolaou; <i>University of Patras, Greece</i>
PS2.9	"Influence of Loading Epoxy Resins Cork Powder on the Physico-Mechanical Behavior In Composites" by: Boulahia Hakima , Aribi Chouaib, Zerizer Abdellatif, Bezzazi Boujema <i>University M'HamedBougara, Boumerdes, Algeria</i>
PS2.10	"Experimental Study and Numerical Simulation of Composite Cables Uniaxial Tensile" by: MAHDAD M'hamed ¹ , SEG HAR Said ² , MOKHTARI Ahcene ³ ¹ Université M'hamed Bougara de Boumerdes, UMBB, Algeria ² Université François Rabelais, Tours, France ³ Centre de recherche et de contrôle, Alger, Algeria

PS2.11	"Contribution to Non Destructive Control via Thermal-Magnetic Rays" by: M. Nezar* , Nezar Djemaa, S. Noui <i>University of HL-BATNA; Algeria</i>
PS2.12	"Application of Nanotechnology and Nanomaterials in civil Engineering" M.Z.Kabir ¹ , S. Alaedini ² <i>AmirKabir University of Technology, Tehran, Iran</i>
PS2.13	"Dielectric Behavior of the Loaded Epoxy Resin"; by: A. Irekti Amar , B. Bezzazi, C. Aribi, B. Hami, F. Zibouche <i>University M'Hamed Bougara Boumerdes, Algeria</i>
PS2.14	"Characterization of Algerians Oak Wood by X-ray Tomographic Scanner and Free Software Image-J"; by: Kennouche Salim ¹ , Zerizer Abdelatif ¹ , Sitouah Nourdine ¹ , Aknouche Abdelhamid ¹ , Frederic Mothe ² . ¹ <i>Université M'Hamed Bougara, Avenue de l'indépendance 35000 Boumerdès, Algeria</i> ² <i>Laboratoire d'Etude des Ressources Forêt Bois, INRA 54280 Champenoux, Nancy, France.</i>
PS2.15	"Influence of Hygrothermal Test on the Mechanical Behavior of Multilayer Sandwich Panels Made From Algerian Wood and Cork", by: Nadia Lakreb , Boudjema Bezzazi <i>Research Unit Materials Processes and Environment (RUMPE) quoted Frantz Fanon, 35000 Boumerdes, Algeria</i>
PS2.16	"Control formulation of concrete by ultrasonic method" by: A. Arbaoui ² , C. Aribi ^{1,2} , R. Halimi ^{1,3} , B. Bezzazi ¹ , A. Slimani ¹ , N.Amiali ¹ ¹ <i>Research Unit Materials, Processes and Environment, University of Boumerdes, Algeria.</i> ² <i>University of Mohand Akli Ouelhadj Bouira, Algeria.</i> ³ <i>Scientific and technical research center in welding and control (CSC) Cheraga, Algeria</i>
PS2.17	"Optical fiber embedded in epoxy glass unidirectional fiber composite system " Irina Severin ^{1,2} , Guillaume Corvec ² , Rochdi El Abdi ² , Mihai Caramihai ¹ ¹ <i>Politehnica University of Bucharest, Romania</i> ² <i>University of Rennes, France</i>
PS2.18	"Determination of the Influence of Fly Ash Particles on the Properties of Low-Density Polyethylene" By: Anna Porabka ¹ , Kamil Jurkowski ¹ , Jadwiga Laska ¹ , Franziska Stadlbauer ² , Vasiliki-Maria Archodoulaki ² ¹ <i>AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Krakow, Poland</i> ² <i>Vienna University of Technology, Institute of Materials Science and –Technology, Vienna, Austria</i>
POSTER SESSION 3 (PS3) - Wednesday 25 Sep. 2013	
PS3.1	"Mechanical Properties of Fumed Silica/Epoxy Nanocomposite"; by: S. Mehraz , C. Aribi , B. Bezzazi, N.Dokhane <i>Research Unit, Materials-Processes and Environment URMPE, Boumerdes University, Algeria</i>
PS3.2	"Development of a Geopolymer Material From Metakaolin and two Activator Solutions (NaOH and KOH)", by: Qualit. M ¹ , Abadlia. M.T ¹ , Brossault. J.Y ² , Jauberthie. R ² ¹ <i>Unit of Research Materials, Processes and Environment (UR-MPE), Boumerdes, Algeria</i> ² <i>Laboratory of Civil and Mechanics Engineering (Materials) (LCME) - INSA of Rennes, France</i>
PS3.3	Mechanical Behaviour of Woven Composite Laminates Under Static and Fatigue Loadings by: R.Halimi ^{1,2} , B.Bezzazi ² , A.Badidibouda ¹ , C.Aribi ² ¹ <i>Scientific and technical research center in welding and control (CSC) Cheraga, Algeria</i> ² <i>Research Unit Materials, Processes and Environment, University of Boumerdes, Algeria.</i>
PS3.4	"Interface Thickness Determination of Mineral Reinforced Multi-layer Polypropylene Pipes using Raman Spectroscopy", by: Arbeiter Florian, Bruckmoser Katharina* , Pinter Gerald <i>Materials Science and Testing of Polymers, Montanuniversitaet Leoben, Leoben, Austria</i>

PS3.5	<p>"Bi-Axial Fatigue Testing of Woven Composite Laminates"</p> <p>by: D. Busca¹, M. Fazzini¹, B. Lorrain¹, S. Mistou^{1,2}, M. Karama¹, M.L. Pastor³</p> <p>¹ Université de Toulouse, INP, Ecole Nationale d'Ingénieurs de Tarbes, France</p> <p>² Nimitech Etudes, Parc Industriel de la Haute Bigorre, France</p> <p>³ Université de Toulouse, UPS, IUT Tarbes, Institut Clément Ader, France</p>
PS3.6	<p>"Effect of Varying the Heterogeneities Quantity and Distribution in the Mechanical Response of a Heterogeneous Material"; by: Mario A. Bello -Gomez^{1,*}, Martha P Guerrero-Mata¹, Adriana Salas-Zamarripa¹, Hector.R. Siller² and Tania P Beber-Solano¹.</p> <p>¹ Facultad de Ingeniería Mecánica y Eléctrica, Universidad Autónoma de Nuevo León, México,</p> <p>² Centro de Innovación en Diseño y Tecnología. Tecnológico de Monterrey. México.</p>
PS3.7	<p>"Punching Shear Strengthening of two-way Flat Slabs with CFRP Grids"</p> <p>by: M.Hasan Meisami¹, Davood Mostofinejad¹, Hikaru Nakamura²</p> <p>¹ Isfahan University of Technology, Isfahan, Iran</p> <p>³ Nagoya University, Nagoya, Japan,</p>
PS3.8	<p>"Experimental and Processing Comparison of Honeycomb and Cork Cores at Special Conditions"</p> <p>by: Soňa Rusnáková, Czech Republic</p>
PS3.9	<p>"Influence Of Carbon Black On Electrical Conductivity Of Epoxy Composites"</p> <p>by: Žaludek Milan¹, Rusnáková Soňa¹, Bošák Ondřej², Seliga Emil², Kubliha Marian² and Fojtl Ladislav¹</p> <p>¹ Department of Production Engineering, Faculty of Technology, Tomas Bata University in Zlín, Nad Stráněmi 4511, 760 05 Zlín, Czech Republic</p> <p>² Department of Physics, Institute of Materials Science, Faculty of Material Science and Technology, Slovak University of Technology, Paulínska 16, 917 24 Trnava, Slovak Republic</p>
PS3.10	<p>"Zeolite LTA Micromembrane Fabrication on Metglas Using E-Beam Lithography"</p> <p>by: Vassiliki Tsukala, Dimitris Kouzoudis, University of Patras, Greece</p>
PS3.11	<p>"Analysis of Elasto-Plastic Deformations of Timoshenko's Shells of Revolution by the Finite Element Method"; by: A. Rouabhi, M'Hamed Bouguerra University, Boumerdès, Algeria</p>
PS3.12	<p>"Experimental Investigation and Modeling of the Viscoelastic Behavior of Hybrid Matrix Building Materials", by: A.Zetos, G.Lagas, G.C.Papanicolaou, Univ.of Patras, Greece</p>
PS3.13	<p>"Mechanical Characterization of Nano Composite Calcium Phosphate Bone Cements"</p> <p>by: S.P. Zaoutsos, D.E. Mouzakis, N.Bouropoulos</p> <p>Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Education Institute of Thessaly, GR 41110-Larissa, Hellas</p>
PS3.14	<p>"Determination of the Impact Response of Novel Clay based Ceramics"</p> <p>by: D. Kalogiannis, X. Spiliotis, D.E. Mouzakis, S.P. Zaoutsos</p> <p>Laboratory of Advanced Materials and Constructions, Department of Mechanical Engineering, Technological Education Institute of Thessaly, GR 41110-Larissa, Hellas</p>
PS3.15	<p>"The Modeling of the Dynamic Behaviour of an Unsymmetrical Rotor"</p> <p>by: Dana Codruța Vișan, Ioan Păraușanu and Gabriel Jiga</p> <p>Politehnica University of Bucharest, Faculty of Engineering and Management of Technological Systems, Bucharest, Romania</p>
PS3.16	<p>"The Stress-Strain State Analysis In Single Overlap Joints With Piezo-Ceramic Actuators"</p> <p>By: Paltanea Veronica¹, Paltanea Gheorghe¹, D.M.Sultan, Gabriel Jiga², Popovici Dorina¹, and G.C. Papanicolaou³</p> <p>¹ POLITEHNICA University from Bucharest, Electrical Engineering Department, Romania</p> <p>² POLITEHNICA University from Bucharest, Faculty of Engineering and Management of Technological Systems, Romania</p> <p>³ University of Patras, Mechanical and Aeronautical Engineering Department, Greece</p>
PS3.17	<p>"Influence of metal inclusion on mechanical behavior of plates made of plastic"</p> <p>By: Robert Ciuvica, Horia Alexandru Petrescu, Daniela Ioana Tudor, Anton Hadar</p> <p>University Politehnica of Bucharest, Bucharest, Romania</p>
PS3.18	<p>"Modified Adsorbent For Capturing Heavy Metals In Aqueous Solution"</p> <p>By: Fares D Alsewailem and Saad A Al-Jlil,</p> <p>King Abdulaziz City for Science and Technology (KACST), S.Arabia</p>

THURSDAY, 26 Sept. 2013 09:00-11:00 hrs HALL A SESSION 13: <i>Closing Remarks</i> Chairmen: George Papanicolaou, University of Patras, GREECE Gabriel Jiga, University Politehnica of Bucharest, ROMANIA Moussa Karama, INP-ENIT, FRANCE	
09:00-010:00	Presentation of the next ICSAAM-2015 to be held in Porto (Portugal) by: Rui M.Guedes, FEUP, Porto, PORTUGAL Antonio Torres Marques, Faculdade de Engenharia da Universidade do Porto, R. Dr. Roberto Frias, Porto, PORTUGAL
10:00-11:00	<p style="text-align: center;">CLOSING CEREMONY</p> <p style="text-align: center;">END OF THE CONFERENCE</p>

ICSAAM-2013 Short Program

Sunday 22 Sep. 2013 19:00 pm Reception Party						
	Monday 23 Sep.2013		Tuesday 24 Sep.2013		Wednesday 25 Sep. 2013	
	Hall A: Welcome					
	Hall A: SESSION 1		Hall A: SESSION 5		Hall A: SESSION 9	
8:45-9:00	PL.1.1		PL.5.1		PL.9.1	
9:00-9:30	PL.1.2		PL.5.2		PL.9.2	
9:30-10:00	PL.1.3		PL.5.3		PL.9.3	
10:00-10:30	Coffee-Break		Coffee-Break		Coffee-Break	
10:30-11:00	Hall A: SESSION 2		Hall A: Session 6		Hall A: Session 10	
11:00-11:30	PL.2.1		PL.6.1		PL.10.1	
11:30-12:00	PL.2.2		PL.6.2		PL.10.2	
12:00-12:30	PL.2.3		PL.6.3		PL.10.3	
12:30-14:00	Lunch-Break		Lunch-Break		Lunch-Break	
	Hall A SESSION 3A	Hall B SESSION 3B	Hall A SESSION 7A	Hall B SESSION 7B	Hall A SESSION 11A	Hall B SESSION 11B
14:00-14:30	KNL.3A	KNL.3B	KNL.7A	KNL.7B	KNL.11A	KNL.11B
14:30-14:45	3A.P1	3B.P1	7A.P1	7B.P1	11A.P1	11B.P1
14:45-15:00	3A.P2	3B.P2	7A.P2	7B.P2	11A.P2	11B.P2
15:00-15:15	3A.P3	3B.P3	7A.P3	7B.P3	11A.P3	11B.P3
15:15-15:30	3A.P4	3B.P4	7A.P4	7B.P4	11A.P4	11B.P4
15:30-15:45	3A.P5	3B.P5	7A.P5	7B.P5	11A.P5	11B.P5
15:45-16:00	Coffee-Break		Coffee-Break		Coffee-Break	
	Hall A SESSION 4A	Hall B SESSION 4B	Hall A SESSION 8A	Hall B SESSION 8B	Hall A SESSION 12A	Hall B SESSION 12B
16:00-16:30	KNL.4A	KNL.4B	KNL.8A	KNL.8B	KNL.12A	KNL.12B
16:30-16:45	4A.P1	4B.P1	8A.P1	8B.P1	12A.P1	12B.P1
16:45-17:00	4A.P2	4B.P2	8A.P2	8B.P2	12A.P2	12B.P2
17:00-17:15	4A.P3	4B.P3	8A.P3	8B.P3	12A.P3	12B.P3
17:15-17:30	4A.P4	4B.P4	8A.P4	8B.P4	12A.P4	12B.P4
17:30	End of Oral Sessions		End of Oral Sessions		End of Oral Sessions	
17:30-18:30	POSTER SESSION 1		POSTER SESSION 2		POSTER SESSION 3	
21:00			DINNER			

PL: Plenary Lecture; KNL: Key-Note Lecture; P: Oral Presentation