

PROGRAM AT A GLANCE

MONDAY 25th JUNE 2012

		PALAGALILEO P	PALAZZO DEL CINEMA PC	CASINÒ C FIRST FLOOR				CASINÒ C SECOND FLOOR				CASINÒ C THIRD FLOOR			
				FESTE C101	HOFFMAN C102	PERLA C103	WELLES C104	AMICI C201	MANGANO C202	MARTINELLI C203	ROSSI DRAGO C204	MEZZALUNA C301	MOSAICI 1 C302	MOSAICI 2 C303	TOM HANKS C304
8.30	10.30	REGISTRATION Registration will be open on June 24 -28 in the Main Lobby (ground floor Casinò) June 24 (Sun), 16.00-19.00 - June 25 (Mon) - 28 (Thu), 08.00-17.00													
9.30	10.15	OPENING CEREMONY													
10.15	11.00	Plenary Lecture 1: FAILURE ANALYSIS OF COMPOSITES WITH MANUFACTURING DEFECTS Ramesh Talreja (Texas A&M University - USA) PALAZZO DEL CINEMA													
11.00	11.15	Coffe break													
		Session Mo2.1	Session Mo2.2	Session Mo2.3	Session Mo2.4	Session Mo2.5	Session Mo2.6	Session Mo2.7	Session Mo2.8	Session Mo2.9	Session Mo2.10	Session Mo2.11	Session Mo2.12	Session Mo2.13	Session Mo2.14
11.20	13.00	T.S. Bio-based /natural composites	T.S. Delamination and interlaminar reinforcement	T.S. Composites for automotive applications	G.S. Design of composite structures	O.N.R. Session	G.S. Damage and fracture 1: experimental methods	T.S. Joints in composite structures	G.S. Multiscale modelling: Design of composite structures and components	T.S. Micromechanics and Failure Mechanisms	G.S. Mechanical and physical properties 1	T.S. Short fiber composites	T.S. New Nanoscale and Nanostructured Reinforcement: Manufacturing and Mechanical Properties	T.S. Composites under dynamic loading Impact, Slamming and Blast	G.S. Polymer matrix composites 1
13.00	14.15	Lunch													
14:15	14:45	Keynote Lecture 1: COMPOSITES FOR TRANSPORTATIONS Luigi Nicolais (National Research Council - Italy) PALAZZO DEL CINEMA						Keynote Lecture 2: MECHANICAL PROPERTIES OF GRAPHENES AND GRAPHENE/POLYMER NANOCOMPOSITES Costas Galiotis (ICE-HT - Greece) PERLA							
		Session Mo3.1	Session Mo3.2	Session Mo3.3	Session Mo3.4	Session Mo3.5	Session Mo3.6	Session Mo3.7	Session Mo3.8	Session Mo3.9	Session Mo3.10	Session Mo3.11	Session Mo3.12	Session Mo3.13	Session Mo3.14
14.50	16.30	T.S. Bio-based /natural composites	T.S. Delamination and interlaminar reinforcement	T.S. Composites for automotive applications	G.S. Optimization of laminated composites	O.N.R. Session	G.S. Damage and fracture 2: properties	T.S. Joints in composite structures	G.S. Multiscale modelling: Physical and Mechanical properties	T.S. Micromechanics and Failure Mechanisms	G.S. Mechanical and physical properties 2	T.S. Short fiber composites	T.S. New Nanoscale and Nanostructured Reinforcement: Manufacturing and Mechanical Properties	T.S. Composites under dynamic loading Impact, Slamming and Blast	G.S. Bio-based composites 1
16.30	16.50	Coffe break													
		Session Mo4.1	Session Mo4.2	Session Mo4.3	Session Mo4.4	Session Mo4.5	Session Mo4.6	Session Mo4.7	Session Mo4.8	Session Mo4.9	Session Mo4.10	Session Mo4.11	Session Mo4.12	Session Mo4.13	Session Mo4.14
16.50	18.30	G.S. Bio-based composites 2	T.S. Delamination and interlaminar reinforcement	T.S. Composites for automotive applications	G.S. NDE technologies	T.S. Composites for wind energy	G.S. Damage and fracture 3: properties	T.S. Joints in composite structures	G.S. Multiscale modelling: Processing	T.S. Micromechanics and Failure Mechanisms	G.S. Mechanical and physical properties 3	T.S. Short fiber composites	T.S. Additive Manufacturing Composites	T.S. Composites under dynamic loading Impact, Slamming and Blast	ESCM Council Meeting
18.30	20.00	Welcome Cocktail													

		PALAGALILEO P	PALAZZO DEL CINEMA PC	CASINO C FIRST FLOOR				CASINO C SECOND FLOOR				CASINO C THIRD FLOOR			
				FESTE C101	HOFFMAN C102	PERLA C103	WELLES C104	AMICI C201	MANGANO C202	MARTINELLI C203	ROSSI DRAGO C204	MEZZALUNA C301	MOSAICI 1 C302	MOSAICI 2 C303	TOM HANKS C304
8.30	10.10	Session Tu1.1	Session Tu1.2	Session Tu1.3	Session Tu1.4	Session Tu1.5	Session Tu1.6	Session Tu1.7	Session Tu1.8	Session Tu1.9	Session Tu1.10	Session Tu1.11	Session Tu1.12	Session Tu1.13	Session Tu1.14
		T.S. Computer aided design of a (nano) composite material: state of art and future challenges	G.S. Nanostructured fibers and matrices	T.S. Daniela Tabuani - Fire behavior and fire retardance/ resistance of polymer composites	T.S. Composite Impact Design	T.S. Composites under dynamic loading Impact, Slamming and Blast	T.S. Advances in Nanocomposites	T.S. Fatigue of composites	G.S. Processing and manufacturing 1	T.S. Composites in civil construction	G.S. Damage and fracture 4: failure mode and prediction	T.S. Liquid composite moulding techniques	T.S. Shock compression and strain rate effect in composites and polymers	T.S. Composites from Renewable Resources	G.S. Fibers and matrices
10.10	10.30	Coffe break													
10.30	11.15	Plenary Lecture 2: FIBRE REINFORCED COMPOSITES WITH NANOSTRUCTURED POLYMER MATRIX - AN OUTLINE OF PROPERTIES AND APPLICATION Karl Schulte (TUHH - Germany) PALAZZO DEL CINEMA													
		Session Tu2.1	Session Tu2.2	Session Tu2.3	Session Tu2.4	Session Tu2.5	Session Tu2.6	Session Tu2.7	Session Tu2.8	Session Tu2.9	Session Tu2.10	Session Tu2.11	Session Tu2.12	Session Tu2.13	Session Tu2.14
11.20	13.00	T.S. Mechanics of nanocomposites	T.S. CNT nanocomposites	T.S. Daniela Tabuani - Fire behavior and fire retardance/ resistance of polymer composites	T.S. Durability of organic composite materials	T.S. Composites under dynamic loading Impact, Slamming and Blast	T.S. Advances in Nanocomposites	T.S. Fatigue of composites	T.S. Composites for automotive applications	T.S. Composites in civil construction	G.S. Damage and fracture 5: modelling and simulation	T.S. Liquid composite moulding techniques	T.S. Shock compression and strain rate effect in composites and polymers	T.S. Mechanical behaviour of 3D textile reinforcements	G.S. Fiber performances
13.00	14.15	Lunch													
14.15	14.45	Keynote Lecture 3: A PATH FOR COMPOSITE MATERIALS DEVELOPMENT Thomas K Tsotsis (Boeing-USA) PALAZZO DEL CINEMA						Keynote Lecture 4: PROGRESS ON HIGH-PERFORMANCE CONTINUOUS NANOFIBERS AND STRUCTURAL NANOCOMPOSITES Yuris Dzenis (University of Nebraska-Lincoln USA) PERLA							
		Session Tu3.1	Session Tu3.2	Session Tu3.3	Session Tu3.4	Session Tu3.5	Session Tu3.6	Session Tu3.7	Session Tu3.8	Session Tu3.9	Session Tu3.10	Session Tu3.11	Session Tu3.12	Session Tu3.13	Session Tu3.14
14.50	16.30	T.S. Mechanics of nanocomposites	T.S. CNT nanocomposites	T.S. Daniela Tabuani - Fire behavior and fire retardance/ resistance of polymer composites	T.S. Effect of aggressive environment on polymer and composites properties	T.S. Composites material and structures for aerospace applications	T.S. Multiferroic-magnetolectric composites	T.S. Fatigue of composites	T.S. Composite materials and their application	T.S. 3D fiber preforming for composite structures	G.S. Damage and fracture 6: impact loading	T.S. Processing and Fabrication of Advanced Composite Materials	T.S. Shock compression and strain rate effect in composites and polymers	T.S. Mechanical behaviour of 3D textile reinforcements	T.S. Structural Health Monitoring in Composite Structures
16.30	16.50	Coffe break													
		Session Tu4.1	Session Tu4.2	Session Tu4.3	Session Tu4.4	Session Tu4.5	Session Tu4.6	Session Tu4.7	Session Tu4.8	Session Tu4.9	Session Tu4.10	Session Tu4.11	Session Tu4.12	Session Tu4.13	Session Tu4.14
16.50	17.50	T.S. Multiscale modelling (Nano to Macro) of smart nanocomposites	T.S. CNT nanocomposites	T.S. Daniela Tabuani - Fire behavior and fire retardance/ resistance of polymer composites	T.S. Environmental effects on mechanical behaviour of FRP composites	T.S. Composites material and structures for aerospace applications	T.S. Multiferroic-magnetolectric composites	T.S. Delamination and interlaminar reinforcement	T.S. Micro-CT applications	T.S. 3D fiber preforming for composite structures	G.S. Interfaces and interphases	T.S. Processing and Fabrication of Advanced Composite Materials	G.S. Polymer matrix composites 3	T.S. Mechanical behaviour of 3D textile reinforcements	T.S. Structural Health Monitoring in Composite Structures
17.50	19.00	ESCM ASSEMBLY PALAZZO DEL CINEMA													

PROGRAM AT A GLANCE

WEDNESDAY 27th JUNE 2012

		PALAGALILEO P	PALAZZO DEL CINEMA PC	CASINÒ C FIRST FLOOR				CASINÒ C SECOND FLOOR				CASINÒ C THIRD FLOOR			
				FESTE C101	HOFFMAN C102	PERLA C103	WELLES C104	AMICI C201	MANGANO C202	MARTINELLI C203	ROSSI DRAGO C204	MEZZALUNA C301	MOSAICI 1 C302	MOSAICI 2 C303	TOM HANKS C304
		Session We1.1	Session We1.2	Session We1.3	Session We1.4	Session We1.5	Session We1.6	Session We1.7	Session We1.8	Session We1.9	Session We1.10	Session We1.11	Session We1.12	Session We1.13	Session We1.14
8.30	10.10	T.S. Multiscale analysis of composite materials	T.S. Biocomposites: synthesis, performance and applications of biobased composite materials	Complex materials for self-healing, regeneration and structural remodeling	T.S. Processing of thermoplastic composite materials	T.S. Structural Performance and Damage Tolerance of Advanced Composites	G.S. Nanocomposites: Preparation and characterisation 1	T.S. Mechanical behaviour of 3D textile reinforcements	G.S. Experimental Techniques 1 - Digital Image analysis	T.S. Manufacturing defects: characterisation and effect on failure	G.S. Hybrid composites 1	T.S. Joining of composite materials	T.S. Composite materials for energy storage	G.S. Interfaces and interphases 1	G.S. Ceramic matrix: Preparation and characterisation 1
Coffe break															
		Plenary Lecture 3: FRACTURE MECHANISM OF DELAMINATION UNDER FATIGUE LOADING -EFFECT OF MICROMECHANISM Masaki Hojo (Kyoto University - Japan) PALAZZO DEL CINEMA													
10.10	10.30	Session We2.1	Session We2.2	Session We2.3	Session We2.4	Session We2.5	Session We2.6	Session We2.7	Session We2.8	Session We2.9	Session We2.10	Session We2.11	Session We2.12	Session We2.13	Session We2.14
11.20	13.00	T.S. Multiscale analysis of composite materials	T.S. Biocomposites: synthesis, performance and applications of biobased composite materials	Complex materials for self-healing, regeneration and structural remodeling	T.S. Processing of thermoplastic composite materials	T.S. Multiaxial fatigue	G.S. Nanocomposites: Preparation and characterisation 2	T.S. Textile composites	G.S. Experimental Techniques 2 - Material testing and characterisation	T.S. Manufacturing defects: characterisation and effect on failure	G.S. Hybrid composites 2	T.S. Joining of composite materials	T.S. Composite materials for energy storage	G.S. Interfaces and interphases 2	G.S. Ceramic matrix: Preparation and characterisation 2
Lunch															
		Keynote Lecture 5: STRUCTURAL COMPOSITE CAPACITORS, SUPERCAPACITORS, AND BATTERIES Eric Wetzal (US Army Research Laboratory-USA) PALAZZO DEL CINEMA						Keynote Lecture 6: POLYMER NANOCOMPOSITES FOR ENERGY APPLICATIONS Emmanuel P. Giannelis (Cornell University-USA) PERLA							
14.15	14.45	Session We3.1	Session We3.2	Session We3.3	Session We3.4	Session We3.5	Session We3.6	Session We3.7	Session We3.8	Session We3.9	Session We3.10	Session We3.11	Session We3.12	Session We3.13	Session We3.14
14.50	16.30	T.S. Multiscale analysis of composite materials	T.S. Biocomposites: synthesis, performance and applications of biobased composite materials	Complex materials for self-healing, regeneration and structural remodeling	T.S. Innovative Manufacturing in Composites	T.S. Composites for aeronautic applications	G.S. Nanocomposites: Preparation and characterisation 3	T.S. Composites repair	G.S. Experimental Techniques 3 - Material testing and characterisation	G.S. Nanocomposites: Mechanical properties 1	G.S. Hybrid composites 3	T.S. Joining of composite materials	T.S. Composite materials for energy storage	T.S. Interfaces and Interphases	G.S. Health monitoring - Physical sensing
Coffe break															
16.30	16.50	Session We4.1	Session We4.2	Session We4.3	Session We4.4	Session We4.5	Session We4.6	Session We4.7	Session We4.8	Session We4.9	Session We4.10	Session We4.11	Session We4.12	Session We4.13	Session We4.14
16.50	18.30	ESCM Council Meeting	T.S. Polymer composites for energy applications	Complex materials for self-healing, regeneration and structural remodeling	G.S. Processing and manufacturing 2	T.S. Structure-property relationship in polymer composites/nanocomposites	G.S. Nanocomposites: Preparation and characterisation 4	T.S. Composites repair	G.S. Experimental Techniques 4	G.S. Nanocomposites: Mechanical properties 2	G.S. Recycling	G.S. Low cost technologies	T.S. Composite materials for energy storage	G.S. Polymer matrix composites 2	G.S. Health monitoring - physical sensing and NDE technologies
Banquet															
20.00	22.00														

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		Session Th1.1	Session Th1.2	Session Th1.3	Session Th1.4	Session Th1.5	Session Th1.6	Session Th1.7	Session Th1.8	Session Th1.9	Session Th1.10	Session Th1.11	Session Th1.12	Session Th1.13	Session Th1.14
8.30	10.10	T.S.Natural fibre and bio-composites	T.S. Fracture and Damage of Composites	Complex materials for self-healing, regeneration and structural remodeling	G.S. Bio-based composites 3	T.S. Graphene-based Polymer Nanocomposites: Production, Properties and Applications	T.S. Probabilistic approach of behaviour and breaking of structures	G.S. Mechanical and physical properties4	T.S. Sustainable Composites	T.S. Thermal methods for composite materials	G.S. Testing and characterization 1	G.S. Nanocomposites: Applications	T.S. Metal matrix composites	G.S. Damage and fracture 7: mixed-mode loading	G.S. Hygrothermal durability and ageing
10.10	10.30	Coffe break													
10.30	11.15	Plenary Lecture 4: LIGHTWEIGHT CONSTRUCTION IN AUTOMOTIVE : THE LAMBORGHINI AVENTADOR Stefan Klaus Nothdurfter (Automobili Lamborghini - Italy) PALAZZO DEL CINEMA													
		Session Th2.1	Session Th2.2	Session Th2.3	Session Th2.4	Session Th2.5	Session Th2.6	Session Th2.7	Session Th2.8	Session Th2.9	Session Th2.10	Session Th2.11	Session Th2.12	Session Th2.13	Session Th2.14
11.20	13.00	T.S.Natural fibre and bio-composites	T.S. Fracture and Damage of Composites	Complex materials for self-healing, regeneration and structural remodeling	G.S. Bio-based composites 4	T.S. Graphene-based Polymer Nanocomposites: Production, Properties and Applications	G.S. Applications 3 - Materials and Structures	G.S. Mechanical and physical properties 5	T.S. Sustainable Composites	T.S. Thermal methods for composite materials	G.S. Testing and characterization 2	G.S. Nanocomposites: Synthesis and functionalization 1	T.S. Metal matrix composites	G.S. Damage and fracture 8: fatigue loading	G.S. Estimation of durability and ageing
13.00	14.15	Lunch													
14.15	14.45	Keynote Lecture 7: DOUBLE WALLED CARBON NANOTUBES Morinobu Endo (Shinshu University-Japan) PALAZZO DEL CINEMA						Keynote Lecture 8: CURRENT & FUTURE EVOLUTION OF AIRBUS COMPOSITE STRUCTURES Francois Pons (AIRBUS - France) PERLA							
		Session Th3.1	Session Th3.2	Session Th3.3	Session Th3.4	Session Th3.5	Session Th3.6	Session Th3.7	Session Th3.8	Session Th3.9	Session Th3.10	Session Th3.11	Session Th3.12	Session Th3.13	Session Th3.14
14.50	16.30	T.S.Natural fibre and bio-composites	T.S. Fracture and Damage of Composites	Complex materials for self-healing, regeneration and structural remodeling	G.S. Bio-based composites 5	G.S. Multiscale modelling: Nanocomposites	G.S. Multifunctional composites 1	G.S. Mechanical and physical properties 6	G.S. Applications 1 - Components and Structures	G.S. FRP reinforced concrete	G.S. Sandwich technologies	G.S. Nanocomposites: Synthesis and functionalization 2	T.S. Metal matrix composites	G.S. Damage and fracture 9: damage monitoring	G.S. Durability and ageing
16.30	16.50	Coffe break													
16:50	18:30	Session Th4.1	Session Th4.2	Session Th4.3		Session Th4.5	Session Th4.6		Session Th4.8				Session Th4.12	Session Th4.13	
		T.S. Organic-inorganic composites for biomedical applications	T.S. Fracture and Damage of Composites	Complex materials for self-healing, regeneration and structural remodeling		G.S. Ceramic matrix: Modelling and applications	G.S. Multifunctional composites 2		G.S. Applications 2 - Components and Structures				G.S. Metal matrix composites	G.S. Damage and fracture 10: debonding and fracture	