

3rd International Carbon Composites Conference October 25 - 27, 2011 - Arcachon

Final Programme

Day 1 October 25th

8h00-9h00	Registration	
	Opening Session	
9h00-9h15	Welcome Address Jean-Luc MACRET ASTRIUM ST - FRANCE	
	Introduction Keynotes	
9h15-9h55	Aerospace Valley, Competitivity Cluster Mrs Agnès PAILLARD, <i>President</i> Conseil Regional d'Aquitaine N.N.	
	Plenary Session - 1 Chairmen: Y. GUILLOU, M. BOURGEON	
9h55-10h20	Overview of Carbon Fibres Guy DUPUPET SOFICAR - FRANCE	
10h20-10h45	NACOMAT : Overview of Outputs in CNT and Nano-Composites Michel BOURGEON Sneaema Propulsion Solide - FRANCE	
10h45-11h10	Elastomer-Based Nanocomposites Cédric LE COZ ENSCBP - FRANCE	
11h10-11h40	COFFEE BREAK	
	Efficient Manufacturing - 1 Chairmen: P. BRIANT, P. CHINESTA	Carbon Nanotubes & Nanocomposites 1 Chairmen: P. POULIN, P. GAILLARD
11h40-12h00	Experimental Analysis of Process / Properties Link for Carbon/Kevlar Thick Composite Obtained by Infusion Gilles CAZAURANG IUT Bordeaux 1 - FRANCE	Nanotechnology : Toughened Araldite® RTM & Prepreg Systems Laetitia DUMORA Huntsman Advanced Materials - SWITZERLAND
12h00-12h20	Automated Production of Binder-Preforms at the ITA-Preformcenter Josef KLINGELE Institut fuer Textiltechnik der RWTH Aachen (ITA) - GERMANY	Carbon- Carbon Composites Containing Ceramic Nanocomponent Stanislaw BLAZEWCZ University of Science and Technology - POLAND
12h20-12h40	Thermal Ageing of a Composite Mould Damien GUILLON CETIM - FRANCE	Growth Optimization-by Injection-CVD Process and Functionalization of ALIGNED Carbon Nanotubes on Carbon Fibres Stéphanie PATEL CEA Saclay - FRANCE
12h40-13h00	Mesoscopic Simulations of Residual Stress Induced by the Curing Process of Composites Vasily PLOSHKIN University of Bremen - GERMANY	Functionalized Carbon/Carbon Composites as Novel Efficient Catalysts for Environmental and Green Chemistry Applications Joel BARRAULT LACCO, University of Poitiers - FRANCE
13h00-14h30	LUNCH	

High Performances Applications - 1 Chairmen: F. LATURELLE, B. DEFOORT	Carbon Nanotubes & Nanocomposites 2 Chairmen: G. BERNHART, C. OUDEA
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14h30-14h50	Development of a High Efficient Radiator Panel Using High Conductivity CFRP for Spacecraft Application Christophe BEREND ASTRIUM SATELLITES - FRANCE	Biocompatibility and Bioactivity of Carbon Nanotubes and their Nanocomposites Marta BLAZEWCZ AGH University of Science and Technology - POLAND
14h50-15h10	Monolithic Vitreous Carbon for Aerospace Optical Applications Fabio DONDEO ORIGO Instituto de Estudos Avancados - BRAZIL	Phenoxly Resin as Carrier of Additives at Nanoscale: A way to Improve Properties of Composites Produced by Resin Transfer Moulding Pascal VAN VELTHEM Université catholique de Louvain - Belgium
15h10-15h30	Advanced Production, Process and Test Technologies for CMC-Materials in Space-Propulsion Relevant Environments Stephan SCHMIDT-WIMMER ASTRIUM ST - GERMANY	Mechanical and Electrical Properties of PEI/MWCNT Nano-Composites Processed by Melt Blending Axel SALINIER IPREM / EPCP - UMR 5254 - FRANCE
15h30-15h50	Diagnosis and Treatment for Elaborating Cohesive Interfaces in Radiation-Cured High Performance Composite Xavier COQUERET Université Reims Champagne Ardennes - FRANCE	Photografting Aligned Carbon Nanotube Networks: Towards Composites and Nanoporous Membranes Martine MAYNE CEA - FRANCE
15h50-16h20	COFFEE BREAK	
16h20-16h30	Plenary Session - 2 - Presentation of CARBON 2012 Conference in Krakow S. BLAZEWCZ	
	Plenary Session - 3 - Nano Technologies Chairman: S. BLAZEWCZ, N.N.	
16h30-16h50	Continuous Spinning of Carbon Nanotube Multifunctional Composite Fibers Célia MERCADER CANOE - FRANCE	
16h50-17h10	Industrial Compounding of Elastomers with Nanofillers Cedric BISSUEL Emac Elastomères - FRANCE	
17h10-17h30	Use of CNT to Transfer Electrical Charges in Composite Materials Patrick DELPRAT ARKEMA - FRANCE	
17h30-18h15	Carbon Nanotubes & Nanocomposites : discussion with panelists Moderators : Michel BOURGEON/Jean Luc MACRET	
	Joel BARRAULT Cedric BISSUEL Stanislaw BLAZEWCZ Patrick DELPRAT Laetitia DUMORA Martine MAYNE	Célia MERCADER Bruno MORTAIGNE Stéphanie PATEL Axel SALINIER Alain SOUM Pascal VAN VELTHEM

20h00 **IC3 CONFERENCE DINNER**

Day 2 **October 26th**

Plenary Session - 4 Chairman: J. MARTIN, A. RITTWEGER	
9h00-9h20	New Building Blocks for Composite Structures Using Thin Ply - Non Crimp Fabric <i>Thierry MASSARD</i> THINK COMPOSITES - FRANCE
Design & Simulation - 1 Efficient Manufacturing - 2 Chairmen: J. MARTIN, A. RITTWEGER Chairpersons: M. BANASZEK, G. v. BROECKER	
9h20-9h40	On the Calculation of Energy Properties of Carbon Composite Curved Panels by a Wave Finite Element Method <i>Dimitrios CHRONOPOULOS</i> Ecole Centrale de Lyon - FRANCE
9h40-10h00	Macro Multi-physic Modelling for the Lifetime Prediction of Self-Healing Ceramic Matrix Composites <i>Emmanuel BARANGER</i> LMT-CACHAN - FRANCE
10h00-10h20	Manufacturing Method and Pyrolysis Process Simulation of Advanced Carbon Carbon for Space Applications. <i>Marta ALBANO</i> DIAEE - Italy -
10h20-10h40	Simulation Infusion Process for Composite Materials – Coupling Stokes, Darcy and Solid Finite Deformations <i>Patrick DE LUCA</i> ESI Group - FRANCE
10h40-11h10	COFFEE BREAK
Characterization & Classification - 1 Efficient Manufacturing - 3 Chairmen: V. PLOSHIKHIN, B. MAXFIELD Chairmen: T. LEVEUGLE, P. LINDE	
11h10-11h30	Checking Quality of Carbon/Carbon Brake Discs with Ultrasounds <i>Jean-Marie MORVAN</i> LMP Transfert – ADERA - FRANCE
11h30-11h50	Characterizations of C/C Composites and Wear Debris after Heavy Braking Demands <i>Patrice BRENDER</i> Institut de Sciences des Matériaux de Mulhouse - FRANCE
11h50-12h10	Coupled DMA/Macro Calorimetry for Liquid to Solid Composite Characterization <i>Bernard DUPERRAY</i> 01dB-Mettravib - FRANCE -
12h10-12h30	Rheological and Electrical Properties of PEEK/MWCNT Nano-Composites Processed by Melt Blending <i>Mathieu GUEHENNEC</i> Université de Pau et des Pays de l'Adour - FRANCE
12h30-14h00	LUNCH

Plenary Session - 5 Chairmen: D. LANG, J. GOMEZ	
14h00-14h20	Bio-based Composites: Defining a Roadmap Passing by Renewable Carbon, Green Chemistry and High Performance <i>Xavier COQUERET</i> Université Reims Champagne Ardennes - FRANCE
Recycling - 1 Technologies Design & Simulation - 2 Chairmen: D. LANG, J. GOMEZ Chairmen: P. LADEVEZE, A. de ROUVRAY	
14h20-14h40	A Second Life for CFRPs - Recycling Composites by Solvolysis <i>Mathieu SCHWANDER</i> Compositec - FRANCE
14h40-15h00	A Comparative Study between Conventional Pyrolysis and Steam-Thermolysis for Recycling CFRP Waste <i>Shengyin YE</i> Ecole des Mines d'Albi - FRANCE -
15h00-15h20	Recycling Process by Solvolysis Using Supercritical Fluids, and Reuse of Carbon composites : RECCO approach <i>Christophe MAGRO</i> RECCO Consortium - FRANCE
15h20-15h40	Influence of Thermomechanical Loading on Composite Material Permeability: Application to the Design of a Linerless Cryogenic tank <i>Jean-Christophe WAHL</i> IUT Bordeaux 1 - FRANCE
15h40-16h10	COFFEE BREAK
Recycling - 2 Market view Design & Simulation - 3 Chairmen: G. DUPUPET, JL MACRET Chairmen: B. TROCLET, M. ICHCHOU	
16h10-16h30	Global Overview of Carbon Fiber Recycling and Reuse <i>Franck GLOWACZ</i> JEC - FRANCE
16h30-16h50	Design for Recycling of Carbon Thermoset Composites: Connection between Recyclers and Designers through Experts in Material Characterization <i>Nicolas PERRY</i> Université de Bordeaux - FRANCE
Round Table - Design Methods & Tools Moderator : Thierry MASSARD	
16h50-18h00	Static Indentation and Low-Velocity Impact Damage of a Woven Carbon/Carbon Composite <i>Vincent HERB</i> Snecma Propulsion Solide - FRANCE
	The Use of Damage Models for the Mechanical Analysis of Launcher Composite Structures <i>Ludovic BALLERE</i> ASTRUM ST - FRANCE
	CFCs: Modeling of the Elastic Response and Structural Optimization <i>Romana PIAT</i> Karlsruhe Institute of Technology - Germany
	Behaviour of Solid like Shell Elements in Simulation of Composites in Aircraft Structures <i>Peter LINDE</i> AIRBUS - Germany -
	OSIRHYS IV Project, 700 bar On-board Composite Pressure Vessel – Burst Test Simulations Using Advanced Composite Modelling <i>Martin KEMPENEERS</i> SAMTECH - FRANCE

Day 3 **October 27th**

Plenary Session - 6 - High Performances Applications
Chairmen: P. PERES, M. CASTAINGS

9h00-9h20	New Experimental Investigations of Adhesive Bonds with Ultrasonic SH Guided Waves <i>Bruce MAXFIELD</i> IIT MADRAS - INDIA
9h20-9h40	BOOST-TP a New Step in High Performance Thermoplastic Composite Structure <i>Brigitte DEFOORT</i> ASTRIUM Space Transportation - FRANCE
9h40-10h00	VINCI Engine Composite Nozzle Extension - Results of the Recent Full Scale Altitude Simulation Testing Campaigns <i>Thierry PICHON</i> SNECMA Propulsion Solide - FRANCE
10h00-10h20	Strategic Needs for European HM Carbon Fibres <i>Céleste PEREIRA</i> INEGI - PORTUGAL

10h20-10h50 **COFFEE BREAK**

Plenary Session - 7
Chairmen: T. MASSARD, T. LEVEUGLE

10h50-11h20	Special Keynote - Invited lecture <i>Stephen TSAI</i> University of Stanford - USA
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Round Table - Recycling
Chairmen: G. LARNAC, C. MAGRO

11h20-11h30	Introduction on markets context <i>Pierre GRAS</i> ALCIMED - FRANCE
11h30-12h15	Discussion with panelists <i>Franck GLOWACZ</i> <i>Nicolas PERRY</i> <i>Pierre GRAS</i> <i>Mathieu SCHWANDER</i> <i>Christophe MAGRO</i> <i>Shengyin YE</i>

Plenary Session - 8 - 3rd IC3 conclusion and farewell

12h30-13h00 **FAREWELL LUNCH**