

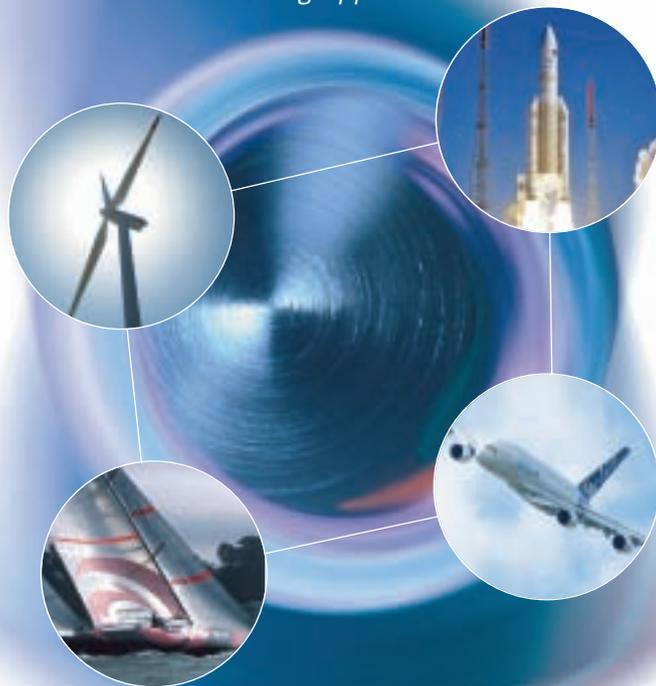
AQUITAINE WORKSHOP

October 27th to 29th, 2009
Palais des Congrès - **ARCACHON**
FRANCE

sciences
and
industry

2nd International Carbon Composites Conference in Aerospace Valley

*Solutions for high
demanding applications*



Proposed and Organized by



For any matter related to the conference, please contact the Conference Secretariat :

AVANTAGE-AQUITAINE

42 rue de Tausia - 33800 Bordeaux FRANCE
Phone : 33 6 81 42 23 95 - Fax : 33 1 45 31 61 34
Email : jfb@avantage-aquitaine.com

Coordination

INNOVALIS Aquitaine
www.innovalis-aquitaine.org

Supported by



In tomorrow's world, carbon-based applications will contribute in a sustainable development and emergence of increased performance new systems and services.

This second edition of IC3 "International Carbon Composites Conference" will be held in the heart of Aerospace Valley, worldwide competitiveness cluster grouping the skills of Bordeaux/Aquitaine and Toulouse/Midi-Pyrenees regions.

The region of Aquitaine is well known for its support to advanced technologies and the special effort which is devoted to the promotion of composites materials to all actors of the sector.

The conference will bring together scientists, designers, manufacturers and end users from the academic, institutional and industrial "Carbon Fibre Composite World". This is a unique opportunity to meet together all players in the use of Carbon Fibre Composite Materials. This is a unique place for many formal and informal opportunities for exchanges, networking and cross-fertilization.

You will meet at a time scientists presenting their latest achievements as well as big industrial players and start-up companies proposing very brand new applications and services.

You will also have fruitful discussions with educational officers who are preparing and training your future technical managers, you will meet institutional representatives and identify R&D support for your next developments.

Round tables will be also the place for discussion on the European education for composite technologies, institutional support for R&D effort, technology transfer & international cooperation.

Speeches and plenary lectures will be organized in order to bring you the latest overview on carbon composites for cold and hot high demanding applications, but also key topics as the future of carbon fibres market including environmental issues, the trend in nano-composites or the possible replacement of carbon fibres.

We are looking forward to welcoming you in the very nice city of Arcachon, giving you also the opportunity of discovering the charm of the Arcachon Bay and the wild sandy beaches of the Atlantic Coast. You will have the chance to taste the famous oysters and the Bordeaux wines !

With the support of the following partners :

Airbus, AMAC, ARKEMA, ASTRIUM Space Transportation, Bordeaux University, EADS CASA, ENSCPB, GFEC, INNOVALIS Aquitaine, SAFRAN Groupe, Samtech, SONACA, SOFICAR, Toulouse university.

Preliminary Program



OCTOBER 27 TH

08.00 - 09.00 Registration

Introduction Keynotes

09.00 - 09.30 Keynotes from
AQUITAINE REGION
AEROSPACE VALLEY
EADS Astrium

Plenary Session Carbon Fibers

09.30 - 10.00 *Michel BRISSON*
SOFICAR - FRANCE
World Carbon Fiber Status

10.00 - 10.30 *COFFEE BREAK*

Plenary Session

10.30 - 11.00 *Pierre DELHAES*
CRPP - FRANCE
An Overview of Carbon Materials

11.00 - 11.30 *Pierre OLRV*
Consultant - FRANCE
Carbon Textile Composites Reinforcements for Composites Materials

11.30 - 12.00 *Vicente GOMEZ MOLINERO*
EADS CASA Espacio - SPAIN
The Black Launcher : A Challenging Project for Europe

12.00 - 12.30 *Patrice HAMELIN*
University of Lyon 1 - FRANCE
States and Scientific Locks for the Development of High Performance Composites in Construction

12.30 - 13.00 *Michel CROKAERT*
GERAC - FRANCE
Lightning Constraints on Composite Material and Assemblies for Use on Aircraft

13.00 - 14.30 *LUNCH*

>>> 3

Design and simulation tools - 1

Efficient Manufacturing - 1

14.30 - 14.50

Marika ENGELBRECHT
CIMPA GmbH - GERMANY
Close Development - Workflow through Design, Stress and Manufacturing of a Composite Part

Xavier COQUERET
University of Reims
Champagne Ardenne - FRANCE
Polymerization of Composite Materials in Free Space Environment

14.50 - 15.10

Dr Olivier GUILLERMIN
VISTAGY, Inc - USA
VISTAGY's AeroSuite™ for Composite Aircraft Assemblies : The Complete Solution

M. KRZEMINSKI
University of Reims
Champagne Ardenne - FRANCE
Nanoscale Toughening for Advanced Composite Matrices Cured by Electron Beam Activation

15.10 - 15.30

Bernard TROCLET
EADS Astrium - FRANCE
Finite Element Analysis of Elastic Wave Propagation in CFRP Structures

Didier LANG
EADS Innovation Works - FRANCE
Mid-Cure Technology for Composite Assembly

15.30 - 15.50

Roger VIALE
THALES ALENIA SPACE - FRANCE
Comparison of Performances between Tightened Screws, Adjusted Bolts and Bonded Structural Connections. Applications on Carbon Fiber Central Tubes of Spacecrafts.

Sophie ESSAYAN
STRUCTIL - FRANCE
Innovative Applications for Pultrusion : Aerospace

15.50 - 16.10

Ali JIBAWI
UPMC University of Paris VI - FRANCE. Optimal Design of Composite Laminated Structures Taking into Account Feasibility Constraints

Fredrik OHLSSON
OXEON AB - SWEDEN
Producing Lightweight Carbon Reinforcements Using Heavy Tows

16.10 - 16.30

Philippe BOISSE
INSA Lyon - FRANCE
Composite Reinforcement Forming Simulation at Different Scales

François DUMONT
EUROCOPTER - GERMANY
Manufacturing Process Simulation Tools for Faster Out-of-Autoclave Industrialisation of Composites Parts

16.30 - 17.00

COFFEE BREAK

Design and simulation tools - 2

Efficient Manufacturing - 2

17.00 - 17.20

Muhammad Aamir RAZA
CESAT - PAKISTAN
Effect of Carbon Composite Ablation on Performance of Dual Thrust Solid Rocket Motor

Patrick DE LUCA
ESI Group - FRANCE
Manufacturing of Composite Materials Process Simulation: Process Optimisation, Benefits for Composite Parts and Materials Development

17.20 - 17.40

Rehan JAMSHED
CESAT - PAKISTAN
Numerical Analysis of SMA Embedded Composite Panels for Aerospace Structures

Michaël KOPECKY
LECTRA - FRANCE
Manufacturing with Composites: Reducing Costs and Re-thinking Production Processes

19.30

CONFERENCE DINNER

OCTOBER 28 TH

Carbon Fibers

Efficient Manufacturing - 3

09.40 - 10.00

Claire BAKER
Sumitomo Corp. Europe - UK
DIALEAD®: Pitch Derived Carbon Fibre for Ultra-High Performance Applications

Paper under negotiation

10.00 - 10.20

Anatole GILLOT
Toho Tenax Europe - GERMANY
From Carbon Fibre to Carbon Fibre Reinforced Polymers

Cyril AYMONIER
ICMCB - FRANCE
Supercritical Fluids for Recycling Carbon Fibres Composites

10.20 - 10.40

Uwe LOMMATZSCH
Fraunhofer Institute - GERMANY
Advances in Bonded Repair of CFRP Aerospace Structures by Safe Pretreatment Processes and Improved Surface Inspection

10.40 - 11.10

COFFEE BREAK

Carbon Nanotubes

11.10 - 11.30

Philippe POULIN
CRPP - CNRS - FRANCE
Carbon Nanotubes for Conductive Fibers and Textiles

11.30 - 11.50

Michel BOURGEON
Snecma Propulsion Solide - FRANCE
NACOMAT Project - Overview

11.50 - 12.10

Antonio FONSECA
NANOPART N.V - BELGIUM
Nanoparticles at NANOPART

12.10 - 12.30

Patrick DELPRAT
ARKEMA - FRANCE
Graphistrength Product Range - Example of Applications

12.30 - 12.50

Patrick DELPRAT
ARKEMA - FRANCE
From the Virgin Graphistrength C100 Powder to the Graphistrength Master-Batch

13.00 - 14.30

LUNCH

Recent and Running Projects

Characterization and Qualification Tests

14.30 - 14.50

Jean-Philippe POULAIN
SAIPEM - FRANCE
Novel Composite Pipe-in-Pipe Solution for Ultra Deep Water Field Developments

Gilles PERES
EADS IW - FRANCE
EMMA Test Facility: Lightning Composites Materials Test Platform

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Recent and Running Projects**Characterization and Qualification Tests****14.50 - 15.10**

Pascal CHADAIL
Sneema Propulsion Solide - FRANCE
Architecture and Design Choices for SAFRAN Ocean Racer Ship

Jean-Baptiste BRAVO
Ecole Centrale de Marseille - FRANCE
Carbon Fiber Application - Non Destructive Checking and Testing - Theories & Applications

15.10 - 15.30

Frédéric DAU
LAMEFIP - FRANCE
Vulnerability of Composite Materials under Dynamic Loading

T. D. KARIMBAEV
Central Institute of Aviation Motors - RUSSIA
Contact Interaction of Solid Body and Laminate Plate with Orthotropic Layers

15.30 - 15.50

Thierry BONNEFOND
EADS Astrium - FRANCE
Innovative and Reliable Wind Rotors Blades

Nobuo OHMAE
University of Kobe - JAPAN
Vertically Aligned Carbon Nanotube/Diamond-like Carbon

15.50 - 16.10

Paper under negotiation

Paper under negotiation

16.10 - 17.00**COFFEE BREAK****Damage Analysis and Repair - 1****17.00 - 17.20**

Florian BLONDEL
SAMTECH - FRANCE
Modelling Delamination of Composite Structures for Industrial Applications

17.20 - 17.40

Henk DE BOER
Advanced Lightweight Engineering BV - THE NETHERLANDS
Multi-Scale Damage Modeling in ABAQUS

17.40 - 18.00

Peter LINDE
AIRBUS - GERMANY
Numerical Model for Simulation of Damage Behaviour of Textile Reinforced Composite Aircraft Structures

OCTOBER 29 TH**Damage Analysis and Repair - 2****High Performance Applications****09.00 - 9.20**

Cedric THOMAS
CEA Le Ripault - FRANCE
Study of Damages on Thermoplastic Composite Structures: Suggestion and Evaluation of Innovating Concepts for Hydrogen Storage Vessels under High Pressure

Maurice GELI
SOFICAR - FRANCE
Carbon Fibre Application in Offshore Tethers and Cables

Damage Analysis and Repair - 2**High Performance Applications****09.20 - 09.40**

Philippe BRIANT
EADS Astrium - FRANCE
Astrium-ST Improvement Expectation for Damage Tolerance Justification of Launchers Composite Structures

Brigitte DEFOORT
EADS Astrium - FRANCE
Advanced and Affordable Thermoplastic Based Composite Tank for Cryogenic Fluid Storage

09.40 - 10.00

Joaquín MARTIN
EADS CASA Espacio - SPAIN
Sensitivity to the Presence of Flaws/Damage in Ariane 5 Composite Structures

Christophe BOIS
University of Bordeaux - FRANCE
Expanded and Bonded Assembly for Metal Bushings in CFRP Composites

10.00 - 10.20

Alain BERGEROT
EADS Astrium - FRANCE
Influence of Impact Damage on Buckling Behaviour of Launchers Composite Structures

Bernard GERGONNE
EADS Astrium - FRANCE
Impact of the Use of Carbon Panels on Telecom Spacecraft Structures

10.20 - 10.40

Federica DAGHIA
LMT Cachan - FRANCE
Validation and identification of a damage mesomodel for laminate virtual testing

10.40 - 11.10**COFFEE BREAK****Round Table****11.10 - 12.10**

Animated by Pierre OLRY
Consultant - FRANCE
Actual Carbon Fibres Providings - Alternatives Fibres

Plenary Session**12.10 - 12.30**

Heinz VOGGENREITER
DLR - GERMANY
Automated Production Technology for CFRP : Are we on the right way ?

12.30 - 12.50

Gilles LUBINEAU
COHMAS Laboratory KAUST SAUDI - ARABIA
Composite & Non-Metallics Innovation : Technology & Research Needs for University/Industry Partnership

12.50 - 13.10

Guillaume VERDIER
Sneema Propulsion Solide - FRANCE
Material and Processes Choices for SAFRAN Ocean Racer Ship

13.10 - 13.30

Pascal CHADAIL
Sneema Propulsion Solide - FRANCE
Architecture and Design Choices for SAFRAN Ocean Racer Ship

13.30 - 14.30**LUNCH****14.30 - 15.00****Ajournment & Farewell address**

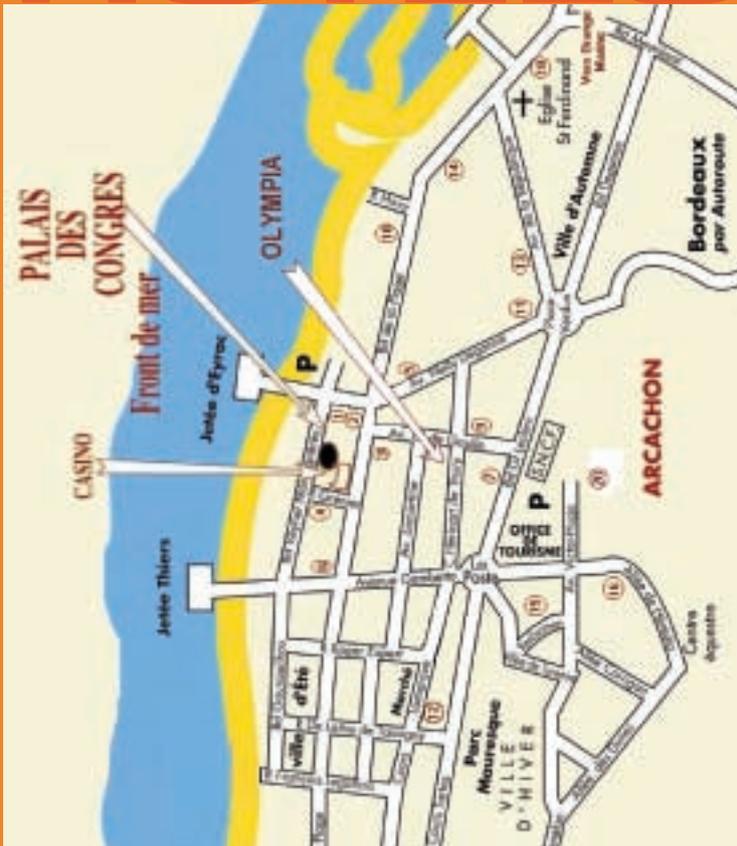
2nd International Carbon Composites Conference

October 27th to 29th,
2009

Palais des Congrès
Arcachon - France



HOTELS



Walking Distance to the conference center

(Numbers in front of the name of the hotel are references to determine the position of the hotel on the map)

1 - HOTEL PARK INN***

4, rue du prof. Jolyet
33120 ARCACHON
Phone : + 33 (0)5 56 83 99 91
Fax : + 33 (0)5 56 83 87 92
Single bed : 110 €
Double-bed : 115 €
www.parkinn.fr

5 - KYRIAD **

10 avenue Nelly Deganne
33120 ARCACHON
Phone : + 33 (0)5 56 83 06 23
Fax : + 33 (0)5 56 83 41 47
Single bed : 81 €
www.hotelarcachon.com

2 - RESIDENCE LE TRIANON ***

161, bd de la Plage
33120 ARCACHON
Phone : + 33 (0)5 56 22 34 00
Fax : + 33 (0)5 56 83 10 70
Single bed : 84 €
Double-bed : 113 €
www.meretgolf.fr

6 - HOTEL RICHELIEU ***

185, bld de la Plage
33120 ARCACHON
Phone : + 33 (0)5 56 83 16 50
Fax : + 33 (0)5 56 83 47 78
Single bed : 87 €
www.grand-hotel-richelieu.com

3 - AQUAMARINA ***

82 bd de la plage
33120 ARCACHON
Phone : + 33 (0)5 56 83 67 70
Fax : + 33 (0)5 57 52 08 26
Single bed : 41 €
Double-bed : 48 €
www.hotel-aquamarina.com

7 - HOTEL LE DAUPHIN **

7, av Gounod
33120 ARCACHON
Phone : + 33 (0)5 56 83 02 89
Fax : + 33 (0)5 56 54 84 90
Single bed : 87 €
Double-bed : 106 €
www.dauphin-arcachon.com

4 - POINT France***

1 rue Grenier
33120 ARCACHON
Phone : + 33 (0)5 56 83 46 74
Fax : + 33 (0)5 56 22 53 24
Single bed : 96 €
Double-bed : 112 €
www.hotel-point-france.com

ACCOMODATION FORM >>>

ACCOMODATION FORM

HOTEL RESERVATION

To be sent to the hotel before September 27th, 2009

Name of the Hotel Selected : _____

(subject to availibility at the date of your reservation)

Name of the Conference Delegate : _____

Address : _____

Zip Code : _____

City : _____

Country : _____

Phone : _____ Fax : _____

Email : _____

NUMBER OF PERSON

1 pers

2 pers

Single bed

Double-bed

Twin (2 beds)

I will share my room with : _____

Arrival on :

Departure on :

Number of nights :

I enclose to this form a one night deposit cheque of _____ euros

Date and place : _____

Signature : _____

REGISTRATION FORM

To be sent to :

AVANTAGE AQUITAINE

42, rue de Tauzia

33800 Bordeaux - FRANCE

Phone : + 33 (0)6 81 42 23 95 - Fax : + 33 (0)1 45 31 61 34

E-mail : jfb@avantage-aquitaine.com

Family name : _____

First name : _____

Firm/Organisation : _____

Address : _____

Zip Code : _____

City : _____

Country : _____

Phone : _____ Fax : _____

E-Mail : _____

Regular Rate : 800 € (including 19,6% VAT)

Speakers and chairmen : 650 € (including 19,6% VAT)

University members and students : 400 € (including 19,6% VAT)

(Intracommunity VAT number : FR2248513674100017)

PAYMENT

By cheque in Euros to the order Avantage Aquitaine

By Credit Transfer to the account N° 30003-00360-00021257336-41

(Société Générale -10, av. de Bordeaux - 33510 Andernos - France)

IBAN : FR76 30003 00360 00021257336 41 – BIC/SWIFT : SOGEFRPP

By Credit Card :

Visa Card Mastercard American Express

Credit Card Number _____

Expiration date / CID* _____

By order to Avantage Aquitaine

Date/signature _____

Please don't forget to mention participant's name on payment. Cancellations will only be accepted until 7 days prior to the Conference. After 7 days a 750 Euros cancellation fee will be applied. Registrants who do not cancel before the conference date will be liable for full registration fees.

*CID : The CID (card identification) number is a 3- or 4-digit code on your credit card (three last digit on the number on the back of your visa or master credit card or the fourth digits on the front of your AMEX Credit card). We are requesting it as an added security precaution. It's another measure we take to ensure that your credit card is present when you place your order. If your CID number is illegible, call your credit card company.

