



International Workshop
« Dynamic behaviour of green composites »
ISAE-ENSMA, Poitiers (France)
27-29 September 2016

Programme

Oral sessions : A102 ; poster sessions : A106

Tuesday 27th September

13h - Registration

13h30 - Introduction

14h15 - 15h00 - Conference by S. Richet and N. Ravassard

PSA Group, Material Direction, Vélizy, France

Eco-design and green materials - PSA Group.

15h00 - 15h25 - *J. Tirillò, *F. Sarasini, *L. Ferrante, *T. Valente, *L. Lampani, *P. Gaudenzi, **E. Barbero, **S. S.-Sáez

**University of Roma, Italy ; **University of Madrid, Spain*

High-velocity impact behaviour of hybrid basalt-carbon/epoxy composites.

15h25 - 15h50 - *P. H. Malinowski, **F. Touchard, **M. Boustie, **L. Chocinski-Arnault, **P. Pascual Gonzalez, *L. Berthe, ****D. de Vasconcellos, ****L. Sorrentino, *W. M. Ostachowicz**

IMP-PAN, Gdansk, Poland ; **Institut P', Poitiers, France ; *PIMM, Paris, France ; ****IPCB, Napoli, Italy*

Assessment of damage in green composites induced by laser and mechanical shocks.

15h50 - 16h25 - Coffee and poster session

16h25 - 16h50 - K. R. Ramakrishnan, S. Corn, N. Le Moigne, P. Slangen, P. Ienny, R. Leger, A. Bergeret

Ecole des Mines d'Alès, France

An experimental and numerical study of the impact resistance of flax fibre reinforced composite laminates.

16h50 - 17h15 - *P. Russo, *L. Sorrentino, **F. Sarasini, **J. Tirillò, *F. Touchard, ***L. Chocinski-Arnault, ***D. Mellier**

IPCB, Napoli, Italy ; **University of Roma, Italy ; *Institut P', Poitiers, France*

A new architecture of polypropylene/woven glass fiber composites: flexural and low-velocity impact performances.

17h15 - 17h40 - F. Bataille, E. Leroy

VALAGRO, Poitiers, France

Industrial use of poly(lactic acid) - Improvement of properties and biodegradation.

18h : Bus departure for Welcoming cocktail

Wednesday 28th September

8h45 - 9h30 - Conference by C. Santulli

University of Camerino, Italy

Fatigue properties of vegetable fibre composites: a review.

9h30 - 9h55 - R. Viala, V. Placet, M. Ouisse, S. Cogan, E. Foltete

FEMTO-ST, University of Bourgogne Franche-Comté, France

Determination of elastic and damping properties of flax-epoxy composite plates and their variation with moisture content using a numerical-experimental identification method based on dynamic testing.

9h55 - 10h20 - A. Perrier, R. Ecault, F. Touchard, M. V. Urriza, J. Baillargeat, L. Chocinski-Arnault, M. Boustie

Institut P', Poitiers, France

Laser shock test application for mechanical characterisation of fibre/matrix interface.

10h20 - 10h55 - Coffee and poster session

10h55 - 11h35 - Conference by F. Lavelle

CNES, Paris, France

Is the launchers market an opportunity for green composites materials?

11h35 - 12h00 - R. Ecault, F. Guibert, N. Colin, N. Dominguez, S. Barut, S. Rolet

Airbus Group Innovations, Blagnac, France

Non Destructive Testing of aeronautic composite parts – new methods for new challenges.

12h15 - 14h15 - lunch at Restaurant "Les colonnes gourmandes"

14h15 -15h00 - Conference by F. Sarasini

University of Roma, Italy

Hybrid biocomposites: concepts, opportunities and challenges.

15h00 - 15h25 - *C. Audibert, *A.S. Andreani, **J.C Grandidier, **E. Laine

**RESCOLL, site de Rochefort, France ; **Institut P', Poitiers, France*

Dynamic behavior of a hybrid woven kevlar-lin/epoxy composite.

15h25 - 15h50 - *I. Derbali, *S. Terekhina, *L. Guillaumat, **P. Ouagne

**ENSAM, Angers, France ; **PRISME, Orléans, France*

Mechanical behavior of comingled woven flax/PP composites subjected to low velocity impact: from manufacturing to damage repair taking into account moisture conditions.

15h50 - 16h25 - Coffee and poster session

16h25 - 16h50 - *M. d'Auria, ***V. Volpe, **D. Davino, ***R. Pantani, *L. Sorrentino

IPCB, Napoly, Italy ; **University of Sannio, Italy ; *University of Salerno, Italy*

Effects of an external magnetic field on polymeric foam-ferromagnet composites.

16h50 - 17h15 - *S. Tayane, **M. Oumam, *Z. Rhandour, **S. Aboul-Hrouz, **S. Mansouri, **H. Hannache, *A. Bennamara, **A. Abourriche

**ENSAM, Casablanca, Morocco ; **University of Casablanca, Morocco*

Mechanical behavior of composite materials based on olive pomace.

17h30 - Bus departure for Evening event

Thursday 29th September

8h45 - 9h30 - Conference by *-**W. M. Ostachowicz

***T. Wandowski, *P. H. Malinowski,*P. Kudela**

**IMP-PAN, Gdansk, Poland ; **University of Warsaw, Poland*

Nondestructive Evaluation of Composite Structures.

9h30 - 9h55 - D. Brizard, S. Ronel

IFSTTAR, Université de Lyon, France

Measurement uncertainty evaluation procedure for SHPB stress-strain curves.

9h55 - 10h20 - *R. Matadi Boumbimba, **M. Reulier, **E. Hablot,*** K. Wang, ****N. Bahlouli, ***S. Ahzi, **L. Avérous

National Engineering School of Metz, France ; **University of Strasbourg, France ; *Qatar Foundation, Doha, Qatar ; ****ICUBE, Strasbourg, France*

Modelling of compressive high strain rate behavior of biocomposite: application to dimer fatty acid-based polyamides with cellulose fibres.

10h20 - 10h55 - Coffee and poster session

10h55 - 11h20 - *H. Yang, **F. Richard, *F. Gehring, *C. Poilâne

**ENSICAEN, Caen, France ; **FEMTO ST, Besançon, France*

Non linear behavior of flax/epoxy unidirectional composite.

11h20 - 11h45 - *-**Y. Lebaupin, *T.-Q. Truong Hoang, *M. Chauvin, **F. Touchard

**ESTACA, Laval, France ; **Institut P', Poitiers, France*

Influence of stacking sequence on low velocity impact and post-impact behavior of flax/Polyamide 11 composites.

11h45 - 12h10 - DJ. Basaid, C. Aribi, T. Kanit

University of Boumerdes, Algeria

Study of cyclic behavior of laminate based in glass fiber and epoxy resin.

12h15 - 14h15 - lunch - Buffet at ISAE-ENSMA

14h15 - End of the Workshop
