

THEPLAC 2005

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## GENERAL INFORMATION

### Organizing Committee

L. Barone  
J.M. Kenny  
A. Maffezzoli  
O. Manni  
L. Monteduro  
A. Passaro  
R. Rametta

**Airport:** Brindisi (40 km far from Lecce)

A transfer service Brindisi Airport - Hotel will be organised on 14<sup>th</sup> September and on 17<sup>th</sup> September. You can reserve the service by the enclosed form.

**Conference Language:** English; simultaneous translation from English into Italian will be provided.

**Conference Proceedings:** A CD-Rom containing the conference proceedings will be supplied to all conference attendees upon registration.

### Participation fees:

	By 31/07/03	After 31/07/03
● Participating delegates	480	580
● SAMPE/ Assocompositi members/ Speakers	360	460
● PhD students	200	300

Fees include conference proceedings, coffee break, lunch and gala dinner.

Gala dinner will be held at "La Conca Restaurant" in Muro Leccese, near Otranto

### Sponsors



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## LOCATION



Consorzio CETMA  
s.s. 7 Appia Km 706+030; 72100 Brindisi, ITALY  
tel. +39 0831 449111 - fax +39 0831 449120  
info@cetma.it



For registration and reservation of Hotel, Brindisi Airport-Hotel transfer, send the enclosed registration form to:



ROMA MULTISERVIZI S.p.A.

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Centro di Progettazione, Design & Tecnologie dei Materiali



ITALIAN CHAPTER

## THEPLAC 2005 International Workshop on Thermoplastic Matrix Composites

September 15-16, 2005  
Grand Hotel Tiziano e dei Congressi  
Lecce, ITALY

with the endorsement of:





# THEPLAC - International Workshop on Thermoplastic Matrix Composites 2005

## Thursday, 15<sup>th</sup> September, 2005

- 8.30 Registration  
9.00 Opening ceremony

### MORPHOLOGY DEVELOPMENT

- 9.35 Analysis of the effects of thermal cycles involved in the rubber forming process on the crystallinity of PPS/Carbon composites - G.G. Costa, E. C. Botelho, M. C. Rezende - Department of Mechanical engineering, CTA, ITA, IEM, Brazil  
10.00 Reactive Processing of Polyphthalamide as Temperature Resistant Matrix for High Performance Composite Materials - C. Zaniboni, N. Pini, S. Busato, P. Ermanni - Centre of Structure Technologies, ETH Zürich,  
10.25 Characterization of continuous reinforced thermoplastics with in-situ polymerized CBT (cyclic butyleneterephthalate)s - J. Baets, H. Parton, I. Verpoest - Departement of Metallurgy and Materials science, KU Leuven - J. Devaux - Unité de chimie et de physique des hauts polymères, UCL, Belgium  
10.50 How to control thermoplastic foam structure and properties by means of chemical modification, blending and nanometric filling - C. Marrazzo, E. Di Maio - Departement of Materials and Production Engineering, University of Naples Federico II - S. Iannace - Institute of Composite and Biomedical Materials, (IMCB-CNR), Italy

- 11.15 Coffee Break

### BIOCOMPOSITES I

- 11.45 Wood extrusion as innovative alternative for indoor applications compared to Chipboard or MDF - H. Zödl - Fasalex GmbH - U. Müller, H. Pöchlacker-Forian - Department of Material Sciences and Process Engineering, BOKU Vienna - I. Bergmann - Competence Center for wood composites and wood chemistry, Austria  
12.10 A new process for the production of thermoplastic composites - P. Pisoni - Meccaniche Moderne S.p.A., Italy  
12.35 Mechanical and Morphological Properties of HDPE / Wheat Straw Composites - A. Shakeri - Gorgan University of Agriculture Science and Natural Recourses, Iran

- 13.00 Lunch Break

### TESTING AND DESIGN

- 14.30 The Venus Fly Trap and Thermoplastic Deployable Booms - D. Zangani, R. De Laurentiis, L. Rombi, D'Appolonia S.p.A., Italy - J. Vincent, University of Bath, United Kingdom

- 14.55 Ultrasonic testing and virtual characterization of thermoplastic layered silicate nanocomposites - C. Rondoni, J. M. Kenny, L. Torre, Dipartimento Ingegneria Civile ed Ambientale, Università di Perugia, Italy  
15.20 Improved surface properties of polyolefin matrix composites - S. Corigliano, R. Rametta, O. Manni, CETMA, Italy - A. Maffezzoli, Dipartimento di ingegneria dell'innovazione, University of Lecce, Italy - P. Favia<sup>a,b</sup>, P. Rossini<sup>b</sup>, Li. C. Lopez<sup>a</sup> - a: Department of Chemistry, University of Bari - b: Plasma Solution Srl, Italy  
15.55 Strain localization and microstructure evolution during plastic flow of reinforced polymer composites - A. Godara, D. Raabe - Max-Planck-Institut für Eisenforschung, Germany

- 16.10 Tea Break

### PROCESSING

- 16.30 Thermoplastics composites for structural applications - D. Leach, S. Cease - Cytec Engineered Materials, California, USA  
16.55 Functional prototypes for automotive industry by vacuum molding - F. Felling, R. Rametta, O. Manni - CETMA - E. Pisino, G. Masoero - Centro Ricerche FIAT, Italy  
17.20 Thermoplastic Composite (TPC) Welding - Challenges and Limitations - C. L. Spence, R. Wise, D. Pullen - TWI Ltd, United Kingdom  
17.45 Thermoplastic composite moulding of hollow parts - A. Greco, A. Salomi, A. Maffezzoli - Dipartimento di Ingegneria dell'Innovazione, University of Lecce - F. Felling - Consorzio CETMA, Italy

- 18.10 Meeting of SAMPE Italian Members

- 19.30 Bus departure for Gala Dinner

## Friday, 16<sup>th</sup> September, 2005

### LONG AND SHORT TERM PROPERTIES

- 9.00 Self reinforced PP composites - W. Broeckert, I. Verpoest - Departement of Metallurgy and Materials science, KU Leuven, Belgium  
9.25 The long term properties of thermoplastic and thermosetting matrix for composites - A. D'Amore, L. Grassia - Department of Aerospace and Mechanical Engineering, The Second University of Naples, Italy  
9.50 Nonlinear viscoelasticity and viscoplasticity of polypropylene/flax fibre composites - E. Marklund, J. Varna - Department of Applied Physics and Mechanical Engineering, Luleå University of Technology, Sweden

- 10.15 Impact tests simulation and validation by robust design techniques - R. Dotoli, M. Spagnolo - Consorzio CETMA, Italy - M. Perillo - Engine Soft, Italy

- 10.40 Coffee Break

### POLYOLEFIN NANOCOMPOSITE

- 11.10 PP and PA6 nanocomposite as thermoplastic matrix for glass fiber composites - M. Aurilia, F. Berardini - Department of Materials and Production Engineering, University of Naples "Federico II" - S. Iannace, L. Nicolais - Institute of Composite and Biomedical Materials (IMCB-CNR), Italy  
11.35 Nanocomposite coatings for improved fire resistance of pp/glass composite - C. Massaro, R. Terzi, M. Schioppa, T. di Luccio - ENEA CR Brindisi UTS MAT-TEC - A. Greco, G. Suppressa, A. Maffezzoli - Dipartimento di Ingegneria dell'Innovazione, University of Lecce, Italy  
12.00 Synergistic effect of nanoclays and woven glass fibres on the mechanical behaviour of thermoplastic composites based on maleated polypropylene - G. Dell'Anno, I. K. Partridge - Advanced Materials Department, Cranfield University - A. Lazzeri - Dipartimento di Ingegneria Chimica, Chimica Industriale e Scienza dei Materiali, University of Pisa, Italy  
12.25 Study of processing parameters for polyolefin matrix-nanocomposites processed by injection moulding - R. Petrucci, D. Maccari, L. Torre, J. M. Kenny - Materials Engineering Centre, University of Perugia, Italy

- 12.50 Lunch Break

### BIOCOMPOSITES II

- 14.20 Fiber-polyester composite from rice straw - T. Tabarsa - Gorgan University of Agriculture Science and Natural Recourses, Iran  
14.45 Effect of Gamma radiation on the mechanical properties of the jute reinforced Polypropylene composites. - M.A Khan, S.K Bhattacharia - Radiation and Polymer Chemistry Laboratory, Bangladesh Atomic Energy Commission - Hydaruzzaman, A. Hossain - Department of Chemistry, Jahangirnagar University - A.A Kafi - Department of Chemical Engineering and Polymer Science, Shahjalal University of Science and Technology, Bangladesh  
15.10 Thermoplastics Bio-nanocomposite Research Program at University of Toronto - M. Sain - Centre for Biocomposites and Biomaterials Processing, University of Toronto, Canada

- 15.35 Closure of the meeting