



Thursday, 28th June 2007

8:30 Registration

9:00 Opening ceremony: Consorzio CETMA - SAMPE Italy Chapter - University of Salento

NANOCOMPOSITE I

Chairman: Alfonso Maffezzoli (University of Salento)

9:30 Thermoplastics, the ultimate carriers of the nano composite world

C. Price - *Security Composite Limited*, United Kingdom

9:50 Polymeric nano-composites with Carbon Black particles

A. Mlích - *Czech Technical University in Prague*, Prague

10:10 Nano/micro Ternary Composites based on PP, Nanoclay and CaCO₃

L. Sorrentino, F. Berardini, S. Iannace - *Istituto per i Materiali Compositi e Biomedici (IMCB) - CNR*, Napoli

10:30 Effect of layered silicate on structure and properties on PA6 nanocomposites with dispersed polymeric phase

I. Kelnar, J. Kotek, L. Kaprálková - *Academy of Sciences of the Czech Republic*, Czech Republic

10:50 Nanocomposite materials for panels in the automotive industry

D. Tabuani, A. Frache, M. Lavaselli, G. Camin, E. Amendol, D. Acierno, L. Zeloni - *Centro Ingegneria Materie Plastiche*, Alessandria - *Institute of Composite Materials and Biomaterials CNR*, Naples - *Department of Material and Production Engineering University of Naples "Federico II" Naples* - *ELASIS S.C.p.A.*, Naples

11:10 Coffee Break

ADVANCED MATERIALS

Chairman: Roberto Frassine (Polytechnic of Milan)

11:30 Hybrid Thermoplastic Composites for high performance head protection Systems

D. Zangani, L. Perelli, A. Bozzolo - *D'Appolonia S.p.A.*, Genova

11:50 Advanced thermoplastic CFRP tendons

U. MEIER - *ETH Zurich and EMPA Dübendorf*, Switzerland

12:10 A mechanical characterization of Thermoplastic Composite CF/PPS laminates under different stacking sequences

I. Crivelli Visconti, G. De Tommaso, M. Durante, P. Iaccarino, M. Iannone, A. Langella, R. Lenferink, C. Voto - *Department of Materials and Production Engineering, Univ. of Naples "Federico II"*, Naples - *Alenia Aeronautica*, Naples - *Ten Cate Advanced Composites*, Netherland

12:30 On the Life Time Prediction of Repeatedly Impacted Thermoplastic Matrix Composites

M. Ö. BORA, O. ÇOBAN, T. SINMAZÇELİK, V. GÜNAY - *Kocaeli University, TUBITAK-MRC*, TURKEY

12:50 Thermoplastic composites hot press forming for aircraft applications: technical and cost overview

G. De Tommaso, M. Iannone, E. Calvi, R. Leferink, I. Crivelli Visconti, P. Iaccarino - *IMAST s.c.a.r.l. Technological District - Alenia Aeronautica S.p.a.*, Naples - *TENCATE Advanced Composites*, Netherland - *DIMP University of Naples Federico II*

13:10 Lunch Break

RECYCLING

Chairman: Luigi Torre (University of Perugia)

14:10 Compounding of Plastics Waste and GFRP Waste – Recycling Good Qualities

K. Siik, J. Vuorinen - *Tampere University of Technology*, Finland

14:30 Degradation and long-term properties of composites using recycled and/or renewable matrices

S. Karlsson - *Royal Institute of Technology (KTH)*, Sweden

14:50 Influence of recycling on the deformation mechanisms of automotive impact-modified polypropylene: analysis by 3D DIC

O. De Almeida, F. Lagattu, J. Brillaud - *Laboratoire de Mécanique et de Physique des Matériaux*, France

15:10 Composites from biodegradable polymers and wood flour

F.P. La Mantia, M. Morreale, R. Scaffaro - *Università di Palermo*

15:30 The Effect of Recycling on the Mechanical Properties of Injection Molded Fibre and Mineral Reinforced Polyamide 66

U. SOY - *Sakarya University*, TURKEY

15:50 Coffee Break



INTERFACES ISSUES

Chairman: Alfonso Jiménez (University of Alicante)

16:10 Evaluation of the addition of an ethylene-acrylic acid copolymer in hydroxyapatite filled high-density polyethylene composites

C. Albano, L. Cataño, L. Figuera, R. Perera, A. Karam - *Instituto Venezolano de Investigaciones Científicas - Universidad Central de Venezuela - Universidad Simón Bolívar, Venezuela*

16:30 The influence of maleinimide interphase modifiers on properties of particulate and fiber polypropylene and polyamide composites

V. Khunová, I. Kelnar, P. Lehocký - *Slovak University of Technology, Slovak Republic - Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic - VUCHT, Slovak Republic*

16:50 Textile metallisation fabric for shielding composites

I. Soliani - *SOLIANI EMC s.r.l., Como*

17:10 SAMPE Italy Members meeting

20:00 Bus departure for Gala dinner

Friday, 29th June 2007

NANOCOMPOSITES II

Chairman: Jyrki Vuorinen (Tampere University of Technology)

9:00 Luminescent Nanocrystals in PMMA Based Co-polymers: Novel Nanocomposite Materials for Nano Imprint Lithography

M. Tamborra, M. Striccoli, M. L. Curri, A. Agostiano, D. Mecerreyes, J. A. Alduncin, J. A. Pomposo, N. Kehagias, V. Rebaud, C. M. Sotomayor Torres - *Dept. Chemistry, University of Bari - CIDETEC, San Sebastian, Spain - Tyndall National Institute, University College Cork, Ireland*

9:20 Synthesis and Characterization of Biodegradable Nanocomposites

A. Terenzi, A. Iannoni, L. Torre, J. M. Kenny - *University of Perugia, Terni, A. Jmenez - University of Alicante*

9:40 Some approaches to compatibility of nanodiamonds with polymer matrices and role of rheological factors

V.V. Karbushev, I.I. Konstantinov, A.V. Semakov, V.G. Kulichikhin, V.A. Popov - *A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences - Moscow Institute of Steel and Alloys*

TESTING

Chairman: Rocco Rametta (Consorzio CETMA)

10:00 Effects of gamma irradiation on the electrical properties of polyethylene-carbon black composites

D. Dudić, V. Djoković, D. Kostoski - *Institute of Nuclear Sciences "Vinča", Serbia - Faculty of Physics, Belgrade, Serbia*

10:20 Influence of thermoplastic matrix on the GFRP impact behaviour

I. Crivelli Visconti, A. Langella, G. Caprino, V. Lopresto, A. Busco - *University of Naples*

10:40 Endurance of polymer and blends to external discharges in high frequency electrical needle tests

I. Kindgren, P. Nylander - *Chalmers University of Technology, Gothenburgh - Borealis Innovation Center, Sweden*

11:00 Fracture morphology and deformation characteristics of repeatedly impacted Thermoplastic Matrix Composites

O. ÇOBAN, M. Ö. BORA, T. SINMAZÇELİK, V. GÜNAY - *Kocaeli University - TUBITAK-MRC, TURKEY*

11:20 Coffee Break

PROCESSING AND APPLICATIONS

Chairman: Paolo Ermanni (Centre of Structure Technologies, ETH Zürich)

11:40 PMMA/ABS sheets reinforced with thermoplastic matrix composites

C. La Tegola, M. Piscopo, A. Maffezzoli S. Corigliano, R. Rametta - *University of Salento - CETMA, Brindisi*

12:00 Structure and properties of L-PET/ glass fiber composite laminates at different processing conditions

R. Rametta, S. Corigliano, R. Frassine, D. Caianiello - *CETMA, Brindisi - Polytechnic of Milan*

12:20 Springing angle behaviour in glass fibre PP/matrix composite

A. Salomi, T. Garstka, K. Potter, A. Greco, A. Maffezzoli - *University of Salento - University of Bristol*

12:40 Thermoplastic composite materials in automotive

E. Pisino, A. Ricciardi, G. Monfrino - *Centro Ricerche FIAT,*

13:00 Twintex®, innovative commingled thermoplastic composite: process and applications

S. Millefiorini, N. Bedouin - *Vetrotex Saint-Gobain*

13:20 Closure of the meeting

13:30 Lunch