

PROGRAM OF THE CONFERENCE DEDICATED TO THE AUTOMOTIVE INDUSTRY

MODENA EXHIBITION FAIRS - THURSDAY 15th OCTOBER 2009 Hours 9.00-13.00 A.M.

- 09,00 Participants Registration
- 09,20 **Crash simulation of full-scale models with composite parts: the description of the material behaviour**
Laura Ferrero/Amet
The present study is aimed to simulate a full-scale crash test on a car with composite body, in order to assess the performance of the virtual simulation in predicting the behaviour of these heterogeneous materials. The present technique focuses on the characterization of composite materials, in unidirectional and fabric configurations, according to two key features....
- 09,40 **Structural adhesives for the automotive industry** - Luca Mugnaini/Mugnaini Group
This paper will discuss the proper use of the high performance methacrylate two-component adhesives, which have been designed to bond a wide range of polymer, metal and ceramic based composite materials, as well as other materials.....
- 10,00 **Integrated manufacturing process of profiled parts for lamination** - Fausto Silva/Lectra Italia
The presentation will focus on the latest technologies available for the virtual and physical layer deposition in the mould of any part which is to be based on composite material.....
- 10,20 **Skintec, the newest high tech thermoplastic composite laminate for competitive structural automotive components** - Gigi Creonti/Structura
Composites' performances capable to replace successfully metal structural components are widely known, as their high cost and very low productive throughput. Skintec is the new thermoplastic composite capable to overcome these weaknesses thanks to a property innovative impregnation technology and lamination
- 10,40 **The most performing Italian vehicle: the prototype designed by the Politecnico of Milan for the Shell Eco Marathon** - Gianmarco Galmarini/Politecnico Milano
2.741 km run using one litre of fuel: the Italian record at the Shell Eco-marathon. It was an excellent result for Artemide, the name of the hydrogen powered prototype, which obtained one of the most meaningful special award.....
- 11,00 Coffee Break
- 11,20 **"One Shot" System for mould** - Giuseppe Silvestri/Leda
The new "One Shot" system for mould construction developed by Leda, allows to obtain a new mould in very short time (drastically shorter than in the traditional process) satisfying all the most common requirements.....
- 11,40 **Flow medium and spacer for moulding processes** - Ronald Tukker/Colbond e Harpo
The presentation is focused on the use of the three-dimensional mattings (spacers) to speed up the foam-cored resin transfer and the infusion moulding production processes and to improve the quality product.....
- 12,00 **DORMER/TOOLS Carbide & PCD, for processes of MILLING and DRILLING on Composite materials CFRP's with carbon fibres for Automotive Industry** - Nereo Santin/Dormer
Materials and geometries of the tools for the correct execution of the holes and the operations of milling, to reduce delaminations on components in fibre of carbon. Case studies on the Italian auto-motive industry will be discussed.....
- 12,20 **Thermoplastic composites and related conversion technologies in the Automotive sector** - Orazio Manni/Cetma
Some research and development activities results on thermoplastic sandwich composites will be highlighted. These have been realised through compression mould, by using recycled materials for the nucleus of the same sandwich.....
- 12,40 **Topological optimization of composite layers lay-up for automotive applications** - Mauro Parodi/Exemplar
This speech describes the optimization method based on iDA (intelligent Decision Advisor) technology. iDA with the aid of intelligent explorative methods allows the design to achieve established objectives.....
- 13,00 **Recycling composite materials, end of service tooling wastes based on carbon fibres**
Stefano Corianò/Karborek-Enea
This paper discusses an innovative process, patented by ENEA and developed together with Karborek for carbon fibre recovery from composite materials reinforced with the same fibres
- 13,20 **Discussion and end of works**

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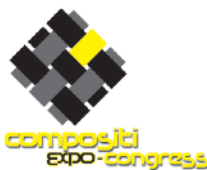
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 TECHNOLOGIES AND PROCESSES IN THE
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NB: The organisation committee Octima kindly asks the participants to communicate any possible future cancellations.

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