

PROGRAM OF THE CONFERENCE DEDICATED TO THE AEROSPACE INDUSTRY
MODENA EXHIBITION FAIRS - WEDNESDAY 14th OCTOBER 2009 Hours 13.30-18.00 P.M.

- 13,30 Participants Registration - Chairman: **Ing. Orazio Manni**
- 14,00 **3D digital model validation and revision comparison for the aerospace industry** - Luca Cariglia/Kubotek
Transfer of 3D digital data between manufacturers, customers and suppliers in aerospace industry is now a daily process, but this brings to the need of new controls to validate the data to be sure that transfers between companies and different IT systems didn't apply changes even very small against the master model.....
- 14,20 **An outlook for the Italian Aerospace Industry: the role played by the Distretto Aerospaziale Pugliese**
Orazio Manni/Cetma
In July 2008, the Apulian Region has recognized the Apulian Aerospace District consisting of companies, trade associations, local authorities and trade unions, universities, public and private research institutes for a total of over 50 members, of which 37 are business.
- 14,40 **The use of CAE in the design of composite structures: benefits, problems and potentiality**
Laura Ferrero/Amet
Laminated and sandwich composites currently find applications as primary structures in the highest technology fields, by virtue of their advantageous specific properties; in fact their high specific strength and stiffness make them potentially the best candidate materials in all the applications where lightweight, high strength and high stiffness structures are of interest.
- 15,00 **Structural composites with enhanced multifunctional properties by incorporation of Carbon Nano Tubes (CNT)**
Luca Mezzo/NanoCyl
The use of Carbon Nano Tubes (CNT) in structural composite parts, offers a unique combination for increasing mechanical and functional properties such as electrical conductivity and flame resistance.
- 15,20 Coffee Break
- 15,40 **The way from design to the composite part for aviation industry** - Holger Giese/Sika
Synthetic resins play a more and more important role in modeling, mould making and manufacture of finished composite parts for aviation industry. Various techniques are available. Sika Deutschland GmbH Tooling & Composites develops a lot of materials for the whole composite process.....
- 16,00 **Topological optimization of composite layers lay-up for aeronautical applications** - Luca Fattore/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....
- 16,20 **Autoclave control system for production of aeronautical structural part** - Oscar Cacciamatta/Terruzzi
The Autoclave Division of TERRUZZI FERCALX, leader in the sector of composite materials for the aeronautical industry for the production of structural parts, proposes an innovative control system for its own autoclaves already tested in the main world aeronautical players' premises.....
- 16,40 **SMA Hybrid composites (Shape Memory Alloys) for structural applications in the aerospace sector**
Orazio Manni/Cetma
In this paper, the authors have studied the influence of the super-thin filaments SMA (Shape Memory Alloys) in traditional vinylester-glass and/or carbon composites on their resistance to repeated impacts at low energy.
- 17,00 **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. The thermal cycling process which has been developed allows to recover the fibres contained, endowed with useful mechanical features in view of their new industrial utilization.....
- 17,20 **Discussion and end of works**

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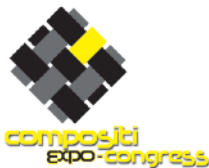
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WEDNESDAY 14th OCTOBER 2009 - HOUR 13.30-18.00 P.M.
2ND CONGRESS OF INNOVATIVE MANUFACTURING
TECHNOLOGIES AND PROCESSES IN THE
AEROSPACE INDUSTRY

organized by:



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NB: The organisation committee Octima kindly asks the participants to communicate any possible future cancellations.

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