



11th - NEWSLETTER MOTORSPORT EXPOTECH 7th of August 2009

<http://www.motorsportexpotech.com/>

*Iscriviti all'unica Community professionale per
incontrarsi e confrontarsi sul Motorsport*

EXHIBITING COMPANIES



DELTA TECH Italy
SENSORI ESTENSIMETRICI
ESECUZIONI CUSTOM

DELTA TECH specialises in the design of custom-made force sensors and large-scale production of load cells and torque meters. We design sensors that meet the specific requirements of clients and can develop low cost versions as well as more sophisticated solutions, all ensuring high quality and reliability standards. In order to facilitate the work of the designer, Deltatech specialises in installations of sensors directly using parts of existing machines, thereby taking the concept of sensor integration to its upper limits. The operative sector also includes strain gauge applications for structural analysis.



ache lone

technologies via OEM platform.

ACHELON SOFTWARE HOUSE is the Italian leader in software solutions for conversion and display of CAD 2D and 3D data (3D_Evolution and SpinFire Professional suites). Achelon also provides solutions for automatic programming of machine tools (CAM Esprit), cryptography and data security services for the protection of intellectual property (Airzip) and integration of proprietary



Prototipo
Test.Ing

PROTOTIPO S.p.A., provides experimental engineering, validation and reliability enhancement services as well as technical support and testing of the operating performance of components, systems and vehicles for the automotive and industrial sectors. We also provide design, overhaul and test services and draw up development plans to customer specifications.

NEW CONFERENCES AT MOTORSPORT EXPOTECH

Wednesday 14 October 2009

HIGH-PERFORMANCE ENGINES AND CARS: A CHALLENGE FOR RESEARCH AND INNOVATION

- Coordinator: Prof. Giuseppe Cantore, Director
In collaboration with **Modena Reggio Emilia University**, Faculty of Mechanical Engineering, and Democenter Sipe - h. 9.30 – 06.00 pm

A preview of contents:

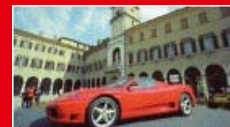
- Design of engines with high specific functional threshold power - FPT Racing
- Study of high performance engines through thermo-structural simulation – Ferrari Auto
- Modelling of the structural performance of engine components for sports motorbikes – Ducati Corse
- Optimisation with a view to reducing the chassis weight of sport cars – Ferrari Auto
- High-performance motorbike chassis design at Ducati – Ducati Corse
- Aprilia RSV4 Factory/Superbike: peculiarities of the project/development of the high-performance narrow V engine – Aprilia
- 2-stroke competition engine machined from the solid – CRP Racing
- Virtual prototyping of a robotized gluing line for a car chassis - - Università di Modena
- Effect of heat treatment on the mechanical properties of Al-Si-Mg foundry alloys - - Università di Bologna
- Measurement and analysis of the motor-driven valve in high-performance motorbike and car engines - - Università di Ferrara
- Correlations between the microstructure and the mechanical properties in castings for Al-Si-Mg alloy engine components - Università Bologna

All these topics were also developed in collaboration with university research centres, which will equally attend the convention and present reports discussing the research carried out.

Lab. INTERMECH

Laboratory dedicated to **industrial research and technological transfer to companies in the advanced engineering field**

Hospitality in Modena



Evento collaterale



MIA Member



h. 02.30 - 6.00 pm

- Design criteria for low-noise gear transmissions - Lab. Simech
- Surface coatings to improve the performance of ferrous materials - Lab. Super&man
- Surface texturing of mechanical components to control friction and wear - Lab. Super&man
- The MECTRON car simulator for the study and design of automotive components - Lab. Mectron
- Problems relating to maintenance management of mechatronic systems - Lab. Mectron
- Simulation of hydraulic components for mobile applications - Lab. Mectron
- Characterisation of porous materials and SEA modelling of soundproofing systems in the automotive industry- Lab. LAV, MateriAcustica srl/Adler Evo srl, Lab. LAV

Thursday 15 October 2009

Materials, surface treatments/finishing - coatings in the automotive and high performance sector

In collaboration with **Modena and Reggio Emilia University** - Faculty of Materials Engineering and the Environment, with the support of **A.I.M.** and **A.I.F.M.** - h. 9.30-13.00 am/02.00 - 06.00 pm

A preview of contents:

- Innovative coatings for cylinder liner surfaces in high performance engines materials, processing, surface characterization and field test results – Università di Stoccarda
- AUDI
- PVD-CVD coating and surface engineering techniques applied to racing and high-performance components - Lafer Rivestimenti PVD-CVD Spa
- The topic will be communicated. Topics: Innovative stainless steel surface treatment and hot isostatic pressing - Bodycote
- Peen Service
- Metal matrix composite materials for hard-wearing applications in the automotive sector - Politecnico di Milano Dipartimento di Chimica, Materiali e ingegneria Chimica "G. Natta".
- Matching materials and technologies in the construction of a F1 racing car – CRP Technology
- AM60B magnesium alloy anodic oxidation in electrolytic bath containing titania nanoparticles - Politecnico di Milano Dipartimento di Chimica, Materiali e ingegneria Chimica "G. Natta"

Engine, driveline and vehicle: the contribution of Electronic

In collaboration with **Bologna University DIEM** - H 9.30 - 13.00 am

- Application of engine control and diagnosis based on measurement of the ionization current - Università di Bologna
- Torques and Force Sensing in Motorsport Applications - NCTEngineering GmbH
- The Multi-air system - Magneti Marelli Powertrain
- Methodologies and models for "real-time" simulation of car engine boosting units - Università degli Studi di Parma
- Fully-developed advance mapping - Ducati/Alma Automotive
- Engine development in the Motorsport. A process between handicraft work and scientific challenge - University of Stuttgart/Volkswagen Motorsport
- Future Motorsport Powertrain, converging on road relevance - Ricardo
- Applications in X-by-Wire technology: the case of Steer-by-Wire by MECTRON - Intermech - Lab. Mectron
- Calculation and Optimization of a V8 Crankshaft of a Racing Engine

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