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R&D at CRITT M2A: A winning strategy

With 30% of its turnover invested in R&D for 3 years, the CRITT M2A has decided to focus on technological innovation. Indeed, in the difficult economical context of the automotive industry, Research and Innovation have become key assets for companies that want to remain competitive on the market. Innovation is a unique opportunity to create essential competitive advantages for growth and profitability.

To meet the challenges of the future, the engineers of CRITT M2A are involved in numerous development projects and are working on news products and future-oriented technologies.

New convincing solutions and methodologies have already been implemented and CRITT M2A will get new resources in 2013 to strengthen this development strategy.



Recruitment of a Ph.D. Student

In its development strategy focused on R&D, the CRITT M2A decided to hire a Ph.D. Student in March 2013 who could bring its scientific and methodological approach. Indeed, the CRITT M2A wished to focus on scientific and technological high-level skills. This engineer was mainly recruited to work on projects related to the turbocharger testing department, especially to analyze problematics on measurement in transient and pulsating conditions, conditions which will be increasingly present in downsized engines.

For our R&D department, this recent recruitment will also enable to ensure a better follow-up of the projects centre and this will enable to undertake new projects with academic French and European partners of excellence.



*Nicolas CAPPELAERE
Ph.D. Student*

An utmost attention is also given to the technological watch to allow all members of CRITT M2A to know the latest technological headways. This technological watch is driven through lectures, conferences and industrial shows as well as specialized magazines.





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In order to communicate about the latest R&D news and projects, the CRITT M2A organises and participates in conferences which gather industrial, academic and institutional people from the automotive industry, concerned by the development of an International research tool in the area.

2013 Conferences

LMS Conference

The CRITT M2A hosted a presentation in the 2013 LMS French Vehicle Users Conference on May, 14th 2013 about the following topic: « *Vibration Method for detecting a turbocharger failure* ». This conference, dedicated to the automotive sector, is an opportunity to exchange about the key challenges and the latest Vehicle developments in testing and simulation sectors.



For the CRITT M2A, the active participation in this kind of conference is a good opportunity to make known the R&D department to the professionals of the automotive sector.



The presented project in this conference had already been presented in the Conseil Scientifique of the CRITT M2A in October 2012. Since then, the project has been developed in collaboration with students from partner universities and companies, with the aim to develop synergies between turbocharger and acoustic departments of the CRITT M2A..



FVV Spring Conference

Since 2013 January 1st, the CRITT M2A became a partner of the FVV association (Forschungsvereinigung Verbrennungskraftmaschinen e.V), consortium of excellence which gathers together the most important engine and turbo manufacturers.



For the first time as an active member, the CRITT M2A participated last April in the « Spring Conference » of Leipzig. This was one of the two semi-annual conferences of the year where all members gather to exchange and discuss about the current and future projects. This enriching conference was an opportunity for CRITT M2A to participate in state of the art technical conferences and to participate in very constructive exchange times to develop its business network and to learn about the future trends of the automotive sector.

This also allowed the CRITT M2A to maintain its relationships to develop effective collaboration for the future. The CRITT M2A will participate in the next FVV Conference which will take place on September, 26th and 27th in Bad Neuenahr.



New partnerships

The CRITT M2A has partnerships with many companies and public organizations in order to create new networks and to benefit from the expertise to complete successfully new projects.

Polytechnic University of Genoa

The CRITT M2A signed an agreement with « Internal Combustion Engine Group » of the Polytechnic University of Genoa, to develop Research activities mainly related to supercharging automotive.

Since several years, the ICEG (Internal Combustion Engine Group) of DIME department of the Polytechnic University of Genoa is active in Research about compressor supercharging. This university is one of the few European academic centres to have fully developed a turbocharger test bench for the investigation of steady and unsteady conditions.

This collaboration will enable exchanges with students, researchers and Ph.D. Student.

MIA (Motorsport Industry Association)

Since 2013 January 1st, the CRITT M2A became a member of the MIA Association (Motorsport Industry Association). The MIA is the world's leading trade association for the motorsport, performance engineering, services and tuning sectors which gathers professionals from the motorsport industry. This partnership will enable CRITT M2A to expand its business network and to share its expertise in the motorsport industry.



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News at CRITT M2A

On going progress on Flowmeasurement

CRITT M2A has come to the end of a project which is inscribed in the flow meter technology program. This project aims to develop an integrated equipment to calibrate some flow -meters installed in down-stream sections.

This integrated system, entirely developed by the CRITT M2A, enables to accelerate the internal procedures to check the equipments and ensure the quality of flow measurement in a fundamental area for turbochargers mapping.

Once again, this project is the result of a collaboration with a French engineering school. The teams of the CRITT M2A will be available during the Automotive Testing Expo in Stuttgart to discuss about this project and other projects to come.





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and on YouTube!
www.crittm2a.com

Conseil Scientifique 2013

This CRITT M2A is very pleased to inform you that its next Conseil Scientifique will take place on October 8th 2013 in its premises of Bruay la Buisnière.

For the first time, the presentations stands will be produced in English and a translator will be present to allow our foreign partners to participate in this day event.



As every year, the CRITT M2A will properly welcome its customers and suppliers as well as its academic and industrial partners, in order to let them know the latest R&D news and projects of its centre.

Human Resources

After the recruitment of a Ph.D. Student last March, the CRITT M2A is continuing its growth by hiring two new employees who will join our team in July 2013.

Among these recruitments, an engineer will be in charge of the engine test department and a new Quality Manager will be responsible for ensuring the good functioning of the quality system, under the policy direction. He will also be in charge of the metrological requirements for the measuring equipments of the centre.

- CRITT M2A on the Web-

From now on, the SAS CRITT M2A is present on the LinkedIn professional network. You could discover all the information and news of the centre. Do not hesitate to follow our company!

Agenda 2nd semester 2013

- **From June 4th to 6th 2013** : the CRITT M2A will be present in the Automotive Testing Expo Europe in Stuttgart, stand nr. 1952 
- **On September 12th and 13th 2013** : the CRITT M2A will welcome you on its stand in the annual Conference of Dresden, Germany.
- **On October 8th 2013**: the CRITT M2A organise its Conseil Scientifique, in Bruay la Buisnière, France
- **On December 4th and 5th 2013**, the CRITT M2A will participate in the Conference « Spark Ignition Engine of the future », in Strasbourg. 

- **From December 12th to 14th 2013**, the CRITT M2A will exhibit in the Performance Racing Industry trade Show, in Indianapolis, United-States

