

TURBO TEST CENTRE: Opening soon !

TURBO TEST CENTRE : Opening soon !	1
Flash-back : AUTOMOTIVE TESTING EXPO 2009	1
Artois Comm & CRITT M2A a winning partnership	2
THE CRITT M2A: active member of ARIA association	2
NEW HUMAN RES- SOURCES	2
FOCUS ON : Metrology	3
AGENDA	3
RESEARCH & DEVELOPMENT	4
SCIENTIFIC MEETING 2009	4



Our different previous newsletters have regularly detailed Turbochargers Test Centre program advancement.

This centre is now in the opening process phase. The CRITT M2A is running the preliminary tests.

During this phase, the CRITT M2A is setting up its new tests benches and is continuously focused on market in order to answer to future customers' expectations.

The new Turbo Test Centre opening requires new human and technological resources. Thus the CRITT M2A is improving and strengthening its skills to be operational for the first commercial tests. After setting strategic partnerships with turbochargers experts, the CRITT M2A is reinforcing its own team, recruiting new staff to run tests on turbocharger benches.

The Turbo Test Centre for R&D :

As announced in the last newsletter, the Turbo Tests Centre has been recognized as a structuring platform by the world class competitiveness cluster I-TRANS.

This recognition means that the CRITT M2A is now allowed to propose the use of its new tool for R&D and National competitiveness clusters programs.



FLASH-BACK: AUTOMOTIVE TESTING EXPO- STUTTGART

For 4 years, the CRITT M2A has been presenting its activities and skills at the European show Automotive Testing Expo in Stuttgart. This year, the new Turbochargers Test Centre was introduced and met a large success.

This new edition was once again a enriching experience. Despite the automotive industry's difficulties and a decreasing number of visitors, the CRITT M2A and its partners (Artois Comm, VI-BRATEC, THY ENGINEERING) had very interesting and high-standard meetings. See you in 2010 !



ISO 17025 ACCREDITED



ARTOIS COMM & CRITT M2A : A WINNING PARTNERSHIP

Artois Comm's main mission is to promote Artois territory. The local authority massively invests in high-tech and high added value equipments, such as the CRITT M2A's.

The CRITT M2A was created as an answer to automotive industry's expectations. Artois Comm's aim was to develop performant means for R&D and technology transfer.

Public-runned until mid-2007, the CRITT M2A, which is one of the most successful Artois Comm's projects, is now a private-managed company.

In 2009, supported by Artois Comm, the CRITT M2A is still growing up and is opening its new Turbo Tests Centre. This winning partnership contributes to the territory development as the CRITT M2A attracts more and more automotive industry actors.



THE CRITT M2A: ACTIVE MEMBER OF THE ARIA ASSOCIATION

The CRITT M2A, member of the Automotive Industry Association (ARIA) for 4 years, is highly involved in actions led by this association (society of OEM and automotive suppliers in Northern France).

The CRITT M2A's presence in ARIA executive committee and its participation to different events arranged by this association, enable the CRITT M2A to exchange information coming from a continuous technical watch, with different automotive actors.

ARIA main purposes are to develop continuous improvement, to gather regional actors and to promote automotive industry. Consequently, ARIA regularly sets

clubs and meetings to connect its members' experiences and improve performance.

Inside ASPARANCE program, which is a collective action supported and funded by regional and national authorities, the CRITT M2A is particularly involved in Innovation action. In fact, the CRITT M2A's mission, in relation with the world class competitiveness cluster I-TRANS, is to inform small and medium sized companies.

One of the last CRITT M2A's contribution to ARIA association was to welcome, last June, the CARIA, gathering of all the French ARIA associations, which takes place twice a year.



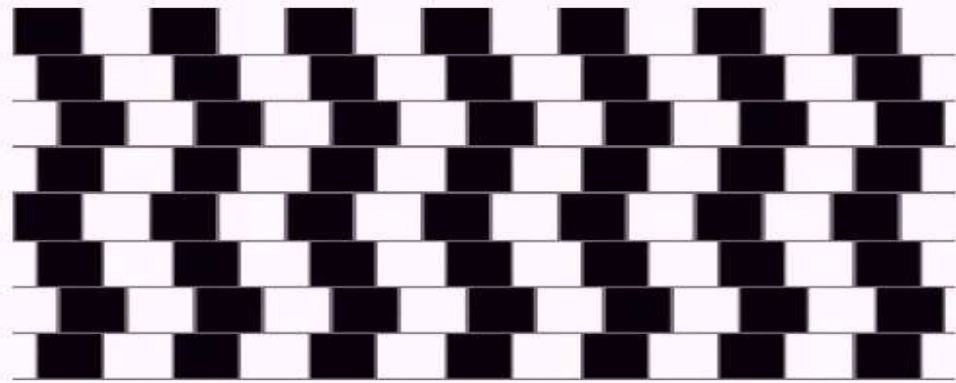
NEW HUMAN RESSOURCES



As announced previously, 1 technician and 1 engineer will join the CRITT M2A during the 4th quarter of 2009.

These recruitments will enable the CRITT M2A to face its Turbocharger Test Centre's activity increase.

FOCUS ON: METROLOGY



Are these lines straight ? At first sight, they aren't. But check with a ruler...

This optical illusion shows that measurement is essential before founding a judgement or an analysis. That's the reason why, whatever the R&D field, measurement is a necessary step.

The CRITT M2A has developed a large metrology expertise, recognized by an ISO 17025 accreditation which will soon be extended to all variables daily used in the centre: pressure, torque, temperatures, flow, acceleration, acoustical pressure level, ...

Our ISO 17025 accreditation is not only our skills recognition. It is also a controlled calibration warranty: results uncertainty is checked and quality system is customers focused.



Turbocharger gas stand calibration

The CRITT M2A's metrology knowledge is used for R&D programs inside the international competitiveness cluster I-Trans (GAMMA-R: development of an innovative and contactless calibration method, under real using conditions). Moreover, the CRITT M2A is involved in competences and know-how transfer partnerships with the French Association for Quality in Northern France.

Contact the CRITT M2A for any calibration needs in fields of pressure, torque, temperatures, acoustics and vibrations.

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AGENDA

- Scientific Meeting - December 2009
- New CRITT M2A's brochure downloadable on our web site : www.critt2a.com
- In order to face its development, the CRITT M2A is rebuilding its web site : coming soon !





The CRITT M2A is a member and an actor of the world class competitiveness cluster I-TRANS

A research program on CO2 emissions reduction, approved by I-TRANS, is to be financed.



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RESEARCH & DEVELOPMENT

GAMMA-R Development of an innovative calibration method

GAMMA-R program, introduced in our previous newsletter, is led by the CRITT M2A's team and has been approved by I-Trans world class competitiveness cluster. Target of this program is to develop an innovative contactless calibration methodology which enables sensors to be tested under their real using conditions.

The first phase, performed by a engineer specialized in electric systems, is now completed.

During this period, preliminary tests on accelerometers sensibility was performed and measurement uncertainties (linked to magnetic field and acoustic disturbances) was evaluated.

Two new students are now dedicated to this program. One from Polytec School (Grenoble) performs calibration methods comparison with laser vibrometry. The second one from ENSAM School (Lille), studies business opportunities of this calibration method that the CRITT M2A would like to offer at the end of this R&D program.



STARDAMP DEUFRAKO Project (collaboration betw. France and Germany)

This program approved by the world class competitiveness cluster I-Trans concerns passengers railway market.

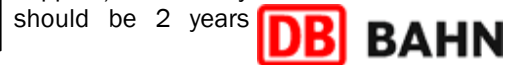
Acoustic pollution caused by railway traffic has been identified as the main disadvantage of that transport mean.

Solutions as dynamic absorber have been developed in order to reduce rail and wheel noise which is the main source of railway disturbance. Nevertheless, development of such solutions is long and difficult.

STARDAMP program's target is to make easier the absorber study and simplify its homologation and setting on French-German rail network.

Final target of this study is to define a protocol that will be shared between absorber supplier, rail equipment suppliers and transport companies (SNCF, D-Bahn).

Led by **SNCF** (Deutsche BAHN in Germany), the French partners for STARDAMP are: **CORUS** (absorbers maker), **VALDUNES** (wheels and wheel-absorbers maker), **CRITT M2A**, **VIBRATEC** (acoustic engineering) and **ALSTOM** (rail equipments supplier). The study should be 2 years



SCIENTIFIC MEETING 2009

The 2008 CRITT M2A's scientific meeting brought many good feedbacks. This meeting created when the CRITT M2A was a public - managed centre has always been appreciated and encouraged by the CRITT M2A's partners.

Consequently the CRITT M2A is going to schedule in the coming weeks the 2009 edi-



tion.

Once again, the scientific meeting's aim is to gather the automotive industry actors around the CRITT M2A's R&D issues.

Such an event will enable the CRITT M2A to review the projects announced in 2008, introduce its new plans and make the attendees discover the new tests means, as the Turbochargers Test Centre.

This meeting will highlight the CRITT M2A's competences and will underline its ability to progress in a difficult economical context.

September 2009