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A fast-growing Engine Department



The engine tests are diversifying and have been growing strongly since last year. Different long term actions allowed a boost of the Engine Department development, particularly in terms of skills and equipment.

The technical team was strengthened with two recruitments since the end of 2013 and is following the evolution of technical support and testing facilities. This team is daily driven by the Engine Expert, and has received training on the latest technologies of internal combustion engines and the use of control systems testing.

Investments are regularly being made to keep the equipment at the highest level, in a field where obsolescence is fast. A major update of the monitoring system, from Puma to Puma Open has been applied to the anechoic test bed. The bench acquisition modules are being replaced by new models Fast FEM. The equipment dedicated to acquisitions has been improved and the IndiCom acquisition softwares have been updated to 2014 version. Finally, the acquisition of new calibration equipment dedicated to specific devices allows internal following for quicker response.

The light and flexible structure of the department adapted perfectly to these developments. Its efforts are now focused on facilities standardization and on testing procedures capitalization, in order to continue improving its efficiency and prepare the future.

SyTec M2A Conference : October 14th 2014

Legislation and environmental trends to reduce emission and fuel consumption in the transport segment are continuously pushing all players around internal combustion engines to face new challenges. In this context, the R&D department of CRITT M2A helps to optimize new engine development processes.

To communicate on the latest projects and developments, CRITT M2A organizes its annual technical conference SYTEC M2A (known as Conseil Scientifique).

This conference will take place on October 14th in Bruay la Buissière. As last year, the conference will be held in French and English; simultaneous translation into two languages (French-English) will be provided throughout the day.

Download [here](#) the temporary agenda of SyTec M2A.



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Electrical test centre (C2E): starting of the first phase of work

The electric and hybrid vehicles sales confirming its progression, CRITT M2A has chosen to focus on this market to continue its development strategy.

According to the initial planning, the electrical test centre is starting the first phase of work with the layout of the building to accommodate testing means provided by Kratzer Automation:

- **96 single Cell test Channels** divided into 24 climatic chambers are intended to simulate the life cycle of battery cells over a temperature range from -30°C to $+90^{\circ}\text{C}$, according to voltage cycles and defined electric current. The maximum voltage to be applied on each cell can reach up to 8 Volts and the current can reach 500 amps.
- **5 Battery modules Test equipment** in climatic environment can realize test cycles under a maximum voltage of 100 Volts and a maximum current of 500 amps.

Like all CRITT M2A test means, each cell will be equipped with a secure badge access to ensure confidentiality.

The second phase will begin in the first half of 2015 with the construction of an extension to the center's existing building. This will include several test benches:

- An electric Engine bench
- A turbocharger bench
- A battery Pack bench
- A battery Simulation bench

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AGENDA 2nd half 2014

- **September 25th and 26th 2014**, CRITT M2A will participate in the 19th Turbocharger Conference in Dresden, Germany. 
- **October 14th 2014**, CRITT M2A organizes the **SyTec M2A** conference, in Bruay la Buisnière, France. 
- **From December 11th to 13th 2014**, CRITT M2A will attend the Performance Racing Industry trade show, in Indianapolis, United States. 

