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EDITORIAL

UCmag : THE UTAC CERAM MAGAZINE



UTAC CERAM is proud to introduce the first issue of it's new customer magazine: UCmag. UCmag is dedicated to our core activities which are Testing, Homologation, Certification, Training and Events.

In this issue, you will

discover our brand new semi-anechoic chamber for indoor pass-by noise testing. Through the regulatory evolutions you will understand all the advantages of this innovative testing facility. You will also learn how UTAC CERAM is helping vehicle makers to improve their safety features through a new in-house developed

two wheeler target.

Feel free and do not hesitate to send in your questions and your views at contact@utacceram.com.



Reinhard WIRTZ
Marketing Manager

SAVE THE DATES

June 20-22, 2017 | Stuttgart (DE)

AUTOMOTIVE TESTING EXPO

UTAC CERAM will be present at the 17th Automotive Testing Trade Fair in Stuttgart from 20th to 22nd of June.

At the same time, at the Autonomous Vehicle Test & Development Symposium, a lecture will be given by our autonomous vehicle expert, Alain PIPERNO, on testing and homologation of autonomous driving.



June 24-25, 2017 | Linas (FR)

AUTODROME HERITAGE FESTIVAL

The weekend of the 24th and 25th of June will be dedicated to the Autodrome Heritage Festival. It is a must see for all lovers off classic cars and bikes.

All infos and ticketing at www.parisautoevents.com



Sept. 13-15, 2017 | Antwerp (BE)

IRCOCI EUROPE

UTAC CERAM will be present at the International Research Council on the Biomechanics of Injury Europe Conference which will take place from 13th to 15th of September in the historic heart of Antwerp in Belgium.

The focus of IRCOCI is on the avoidance and reduction of the severity of traffic accidents, with special emphasis on advanced safety technologies and the biomechanics of injury.



INTERNATIONAL RESEARCH COUNCIL ON BIOMECHANICS OF INJURY

FOCUS **INDOOR PASS-BY NOISES TESTING**

A cutting-edge semi-anechoic chamber to improve vehicle acoustic from development phase to type approval.

UTAC CERAM has just introduced a brand new semi-anechoic chamber equipped with a 4x4 chassis dynamometer in order to conduct indoor pass-by noise testing.

Over 40 years' experience in sound has underlined challenges to manage many external environmental variations. Therefore, indoor pass-by noise testing is considered by the engineers as a leading application to improve the effectiveness of vehicle acoustic.

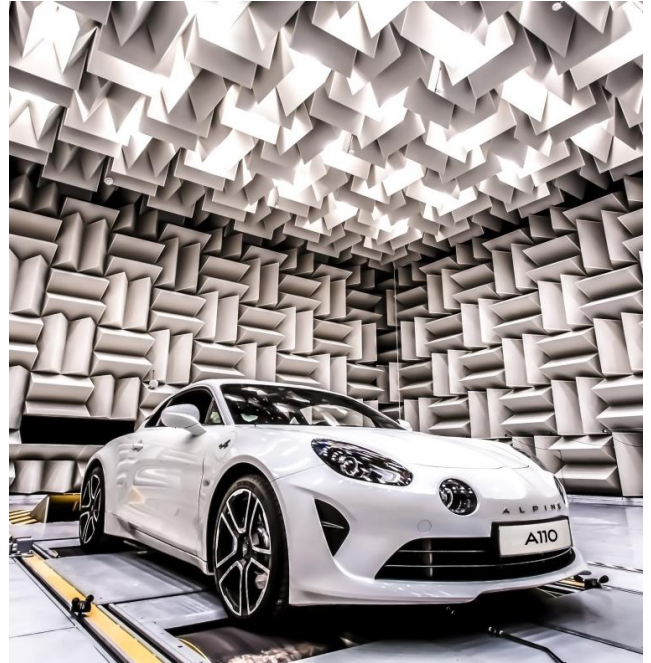
Indoor pass-by noise methods

To fulfil stringent legal requirements, indoor pass-by noise testing offers high expectations to improve development processes from experimental to virtual. The new UN Regulation No. 138 for audibility of electrical vehicle – published in 2016 – introduced regulatory indoor measurements.

Indoor pass-by noise testing offers high expectations to improve development processes from experimental to virtual. It enables to fulfil stringent legal requirements.

The characteristics of an indoor acoustic test bench and the operating procedures used to obtain comparable results to those achieved on a track are described in the new standard ISO 362-3 published in 2016. Outdoor and indoor methods consist in testing the vehicle in motion.

On an acoustic track, microphones are placed 7.5 m away on line PP'. In the indoor NVH chamber, microphones are placed such that they cover all or part of the vehicle pass-by (see below). By this way, each microphone corresponds to a vehicle position on the track.



Toward better indoor/outdoor test correlation

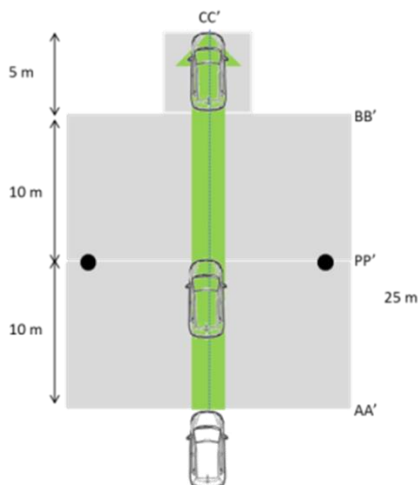
This new test facility calls for very precise specifications on:

- Acoustic treatment,
- Microphone arrays,
- Chassis dynamometer,
- Modelling of vehicle dynamics,

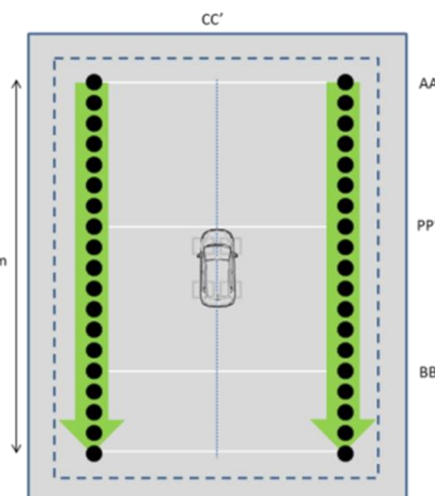
- Temperature conditions.

Specific treatment must ensure that all components of vehicle propulsion and tyre noise are comparable to those obtained on an ISO 10844 acoustic track. Over the next 10 years, stringent tyre noise reduction will stimulate manufacturers to specify tyre noise level in addition to all others current performance criteria.

Outdoor pass-by noise



Indoor pass-by noise



Louis-Ferdinand PARDO
NVH & EMC Department Manager

TESTING

NEW IN-HOUSE TWO-WHEELER TARGET

UTAC CERAM helps vehicle makers to improve their active safety features.

For more than 50 years, the engineers and technicians of UTAC CERAM have been performing tests for the automotive industry with one goal: the development of the transportation of tomorrow. These last years, Advanced Driver Assistance Systems (ADAS) are one of the fastest-growing technologies in the automotive industry. Therefore, UTAC CERAM continues to

invest in its active safety testing facilities for homologation, development and qualification tests.

The group is also actively preparing for the Euro NCAP roadmap. The future protocols will introduce in 2020 a complete rating for autonomous vehicle. After taking pedestrian and bicycle safety into account in the Euro NCAP ratings, the motorcycle safety will logically be the next step towards

autonomous driving. While waiting for these future protocols, UTAC CERAM has developed its own powered two-wheeler target to help car manufacturers to develop their ADAS systems. Thanks to this new device, ADAS can be adapted to avoid many car accidents which involve motorcycles.

The two-wheeler target is composed of a motorcycle dummy placed on a GST platform. The target is able to reach a maximum speed of 80kph. The test device is linked with the driving robots of the tested vehicle for the best repeatability. The two-wheeler target

is used for the testing of AEB, ACC and BSD. Our teams also perform night testing. The tests are filmed with HD video cameras inside and outside the vehicle.

As you need to anticipate the future regulatory requirements, UTAC CERAM supports you to enhance product performance and market differentiation.



Aurélien GARCIA
Active Safety Team Manager



HOMOLOGATION

AGRICULTURAL TRAILER TYPE APPROVAL EVOLUTION

Agricultural trailers and towed equipment can now be homologated at EU level.

As from the 1st of January 2018 the new regulation 167/2013 will allow manufacturers to homologate T type vehicles (tractors) as

well as R type (trailers) and S type (interchangeable towed equipment). This European regulation will allow

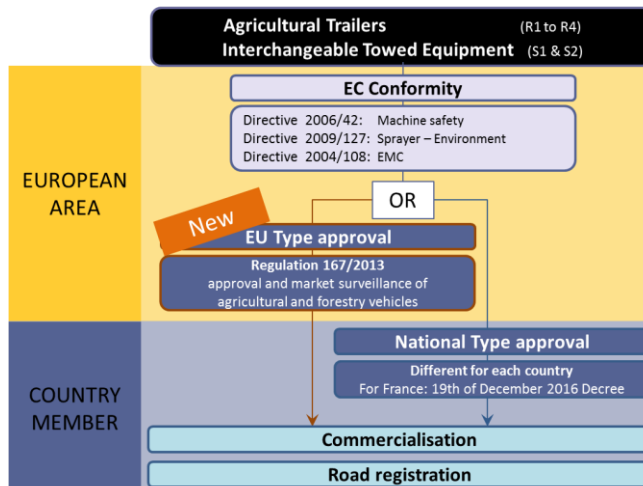
manufacturers to sell their machinery in the 28 countries without having to homologate in each country.

We may well see an

increase in agricultural machinery sales between EU countries as is already the case with tractors.

UTAC CERAM provides "Homologation initiation" training course should you or your team need some help.

Don't hesitate to contact us per email at contact@utacceram.com for more information.



Felix GARRAD
Off-road Vehicles & Coachbuilders
Market Manager

CERTIFICATION TWO NEW INTERNATIONAL OFFICES

Acquisition of the Management Systems Certification branch of the VCA.

UTAC CERAM expands its Management Systems Certification activities by the acquisition of the Vehicle Certification Agency's (VCA) Management Systems Certification body from the British Secretary of State for Transport, Department for Transport. The acquisition of the VCA's Management Systems Certification offices strengthens the UTAC CERAM's

international presence by expanding its activities in the United Kingdom and the United States, and thus considering further developments on testing and homologation services.

With over 20 years of experience, the VCA's Management Systems Certification activities are now integrated into the UTAC brand in order to extend its range of certification services in

the automotive sector:

- **ISO 9001** Quality Certification
- **IATF 16949** Automotive Quality Certification
- **ISO 14001** Environmental Certification
- **ISO 50001** Energy Management Certification
- **OHSAS 18001** Health & Safety Certification

The complementarity of the respective geographic coverage of both Management Systems Certification bodies will meet

customer's needs and expectations as part of their international development.



Mickael GENDROT
Business Development Director

EFCAM A NEW DRIVING TRAINING ACTIVITY

The EFCAM extends its training offer by the acquisition of La Conduite Préventive.

EFCAM, the UTAC CERAM driving school, strengthens its risk management and road safety activities by integrating La Conduite Préventive at its Linas-Monthéry site.

With more than 25 years of experience, La Conduite Préventive will be integrated into the UTAC CERAM driving training service, keeping its name. It will extend the offer of services in the following areas:

- *Road risk*
- *Sustainable development*
- *Eco-driving*

These training services are now offered to drivers of light vehicles, two-wheelers and heavy duty vehicles.

The complementarity between EFCAM and La Conduite Préventive will enable us to propose a range of services adapted to our current and future customers' needs.



Olivier VITARD
Manager of EFCAM Driving School

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