

Experts from around the world gather at the 4th FTire User Meeting in Aachen

fka in Aachen again invited international experts and users to discuss their experiences and requirements regarding the FTire model.

Aachen, 12. September 2017

Already for the 4th time vehicle engineers and tire experts from around the world visited Aachen, Germany, to exchange their experiences regarding the FTire model and discuss varying applications and future demands for the tire model together with its creator, Professor Gipser. This year the seminar focused on all kinds of FTire applications in the CAE process chain, the implementation in HiL test rigs as well as latest findings from automotive research projects or FTire interfacing with third party simulation environments.

In today's development processes the reduction of time consuming and costly prototype testing are main drivers for the continuously increased usage of simulation tools. At the same time, the requirements regarding the accuracy and the required range of simulations increase as well.

Nowadays alternative full vehicle models are not only used to analyze the performance of a vehicle. Moreover, they are used for enhanced durability and ride comfort investigations for instance. These increased requirements obviously also impact today's tire models, as the tire is the only link between the vehicle and the road surface. Therefore most accurate and precise simulation models are essential.

FTire is one of the most common tire models for the described tasks. It is designed for vehicle comfort simulations on road irregularities even with extremely short wave-lengths. At the same time, it can serve as a physically based, highly nonlinear and dynamic tire model for handling characteristics under the above mentioned excitation conditions. In contrast to other widely used tire models, FTire explains most of the complex tire phenomena on a mechanical basis – and not merely by mathematical description of measured characteristics.

With its lectures and panels plus the evening reception the FTire User Meeting has established itself as a renown platform for users and developers to get together and exchange experiences, use cases and ideas for future developments and their requirements with other experts and to induce further developments in this area. Furthermore, all participants had the opportunity to experience fka's extensive testing infrastructure including its new MTS Flat-Trac® IV CT plus during live demonstrations and get a firsthand impression of today's state of the art for tire measurements.

About fka

For more than 35 years fka has been an innovative engineering service provider for research and development tasks for the automotive industry and its suppliers. We are research facility, provider

of creative ideas, and driver of innovation. Our holistic approach and unique infrastructure for simulation, testing and evaluation allows us to see the big picture and be your specialist for details at the same time. We deliver our worldwide customers with the full range of engineering services including conception and simulation, as well as design and engineering of prototypes, and their experimental testing. Working together in interdisciplinary teams is a key aspect of our success. We also cooperate closely with experts from vehicle design, electrical engineering and IT specialists and thanks to our subsidiary are present in Silicon Valley since 2015.

Following our motto “creating ideas & driving innovations” we create a safe, efficient and exciting future mobility.

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We kindly request a specimen copy after publication; for further enquiries please contact:

Kathrin Noreikat
Telefon +49 241 8861 106
E-Mail: kathrin.noreikat@fka.de