

WELCOME IN STUTTGART

From March 14–15, 2017, the Stuttgart International Symposium »Automotive and Engine Technology« of the Research Institute of Automotive Engineering and Vehicle Engines Stuttgart (FKFS) is taking place for the 17th time. As the patron, I heartily welcome all participants, from home and abroad, to our state capital!

Mobility is a prerequisite for freedom, participation in society, economic development, personal development and prosperity. Individual transport with cars, trains and buses, air travel and commercial traffic ensure mobility in the region. At the same time, today's transport system is also a burden for people, the climate and the environment. The state government is aiming for a new kind of mobility: which is compatible with the climate and the environment, affordable, socially and economically efficient, and which secures our quality of life. As a car manufacturing state, Baden-Wuerttemberg is characterized by a highly innovative vehicle and mobility industry.

Just as the age of the automobile started in Baden-Wuerttemberg, so must our state be at the forefront of developing the mobility of the future.

Therefore I am delighted that this year's Stuttgart International Symposium »Automotive and Engine Technology« is focusing on »The Future of Private Transport« and will be getting to grips with the challenges of new and sustainable mobility concepts. After all, the understanding and practical implementation of mobility will change fundamentally in the coming years and decades. As one of the largest industry conferences relating to automotive and engine technology, the Symposium is not only a platform for creative minds to exchange opinions, but also an important global showcase for the automotive manufacturers and think tanks of Baden-Wuerttemberg.

I thank the Research Institute of Automotive Engineering and Vehicle Engines Stuttgart and all the participating companies for the planning and implementation of the Symposium, which underlines the significance of Baden-Wuerttemberg as an automotive hub. I wish the participants inspiring lectures and exciting discussions!

Winfried Kretschmann
Prime Minister of the State of Baden-Wuerttemberg

A WARM WELCOME

Historically, the automobile in Germany only became a symbol of wealth and status for a significant proportion of the population with the „German economic miracle“, more than fifty years ago. In the meantime, owning one's own car is almost a basic requirement and, for many people, is the most important means of transport – as well as being the epitome of private transport. But, over the years, enormous challenges have resulted from this. Traffic jams in built-up areas, environmental pollution, noise, threatened shortages of resources and a lack of parking spaces means the time has come to start thinking differently.

This applies to Germany in the same way as to all industrialized or industrializing countries of the world. Nowadays, many people already no longer rely exclusively on their own car for mobility, but instead are trying out new mobility concepts. However, the user is not prepared to do without his or her freedom of mobility – quite the opposite: mobility is becoming increasingly individual. So, on the one hand, completely new challenges are arising to solve the existing problems. On the other hand, new offers must be developed for private transport, which are technically sound, economically feasible and which are accepted by the population.

What role will the automotive industry play here? What will it look like, the car of the future? Will it even still have a steering wheel and pedals? Will there only be one drive concept in the future, or will diversity be a permanent feature? And what contributions can research in mechatronics, IT and computer science make to all these changes? There are many questions to be answered when we discuss the future of private transport.

The 17th Stuttgart International Symposium for »Automotive and Engine Technology« March 14 and 15, 2017

offers an important platform for this. In sessions running in six parallel strands, experts from industry and business will discuss these developments and share their latest discoveries.

In addition, at the end of the Symposium you can look forward to an exciting panel discussion on the subject. Use this forum in the Haus der Wirtschaft for discussing and exchanging ideas – and visit the accompanying trade show too!

We look forward to welcoming you to Stuttgart – the birthplace of the automobile – and wish you two highly interesting days at the 17th Stuttgart International Symposium!

Prof. Dr. Michael Bargende

Prof. Dr. Hans-Christian Reuss

Prof. Dr. Jochen Wiedemann

17. Internationales Stuttgarter Symposium

Automobil- und Motorentechnik

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