

## **Life Cycle Assessment, autonomous vehicle concepts and climate-friendly propulsion systems: Experts from research and development discuss the future of mobility at the 30th Aachen Colloquium Sustainable Mobility.**

In the light of numerous challenges like a strict emission legislation or a rising automatization of vehicles, the automobile branch faces the complex task to shape the future of mobility. Which competencies will our vehicles have in the future and how will we interact with them? Which climate-neutral energy sources and propulsion systems will we use in the future? These are the questions which experts of automobile and propulsion technology, from science and companies are discussing at the 30th Aachen Colloquium Sustainable Mobility.

The Aachen Colloquium Sustainable Mobility under direction of Professor Lutz Eckstein, Institute for Automotive Engineering (ika), and Professor Stefan Pischinger, Chair of Thermodynamics of Mobile Energy Conversion Systems (tme) of RWTH Aachen University counts as one of the leading technical conferences in the automotive area worldwide. In more than 100 technical presentations – accompanied by a technical exhibition with around 40 exhibitors – the approximately 1000 experts exchange intensively on one of the biggest global challenges: shaping the future of mobility.

The plenary speeches of high-ranking executives from the automotive industry and politics gained special attention.

Markus Duesmann, Chairman of the Board of Management & Board of Management Member for Product Lines at AUDI AG, spoke about electromobility as an opportunity and driver for growth and emphasized the urgency of the climate change and the need for fast solutions at AUDI to reduce CO<sub>2</sub> emissions: "If we had all the time in the world to master the challenges of the fight against climate change, we could afford an openness of technology." According to Duesmann, there is only one way to get us away from fossil CO<sub>2</sub>. And this path always leads to electricity. It doesn't matter whether it's about industry, traffic or households.

Stefan Hartung, Member of the Board of Management at Robert Bosch GmbH, gave a lecture on the mobility of the future and also highlighted the global challenge we are facing in view of the climate crisis. Bosch sees a need for research and development for all technology options: "It is not true that the saying applies: Everything has already been invented, we just need to implement it!"

Consistently with the lectures of the plenary session, the discussion afterwards was all about the decarbonization in order to achieve the global CO<sub>2</sub> targets. Additionally, challenges and opportunities due to the increasing software focus in the mobility sector were discussed.

In the closing plenary session on Wednesday, Ralf G. Herrtwich, Senior Director Automotive Software at NVIDIA, will show what makes cars more intelligent. Finally, Byung-Ki Ahn, Senior Vice President Electric Powertrain of the R&D Division at Hyundai MOBIS, will give an outlook on how Mobis acts as a reliable partner for the future vision of electric vehicles.

In the accompanying technical exhibition, renowned companies show their recent developments and innovations. This year, for example fka presented how future mobility must be a positive experience, safe and sustainable. These three goals are pursued by fka in its holistic research approach, which focuses on the user. At the fka's exhibition stand at this year's Aachen Colloquium Sustainable Mobility, projects and research results from recent years are presented vividly with the help of exhibits. All projects and exhibits exemplify fka's high level of innovation and integration. It supports its customers from the idea to the conception and simulation, the prototypical implementation and the final testing. For this purpose, in addition to an extensive test infrastructure, it has all the necessary tools at its service to implement ideas in real life, to integrate them into vehicles and to evaluate them on test benches and in road tests. The scientific background and research results will be presented and discussed in subject-specific sessions.

FEV, a leading international engineering service provider, will focus on digital mobility, connectivity, software development and architectures of the future, and all topics related to e-mobility, hydrogen-based technologies, and total vehicle development. During the 30th Aachen Colloquium Sustainable Mobility at Eurogress Aachen, FEV will present the "e-Blast H2" from GCK, a spectacular vehicle that will participate in the Dakar Rally in 2024. FEV takes over design, development and integration of the 200 kW fuel cell system for toughest operating conditions. The company is paying particular attention to the topic of digital mobility. Specifically for the needs of Software Defined Vehicles (SDV), functionalities such as connectivity and cloud-based computing power are key development disciplines that FEV is addressing together with its strategic partner Wipro – a leading global IT company.

In the future, the various topics of automobile and engine technology will continue to be of high significance for research and industry. Thus, the 31st Aachen Colloquium is already determined: From October 10th to 12th, 2022, the Institute for Automotive Engineering (ika) and the Chair of Thermodynamics of Mobile Energy Conversion Systems (tme) of RWTH Aachen University will again invite to Eurogress Aachen for a lively debate between automotive and mobility experts from industry and research.

Further information is available at Aachen Colloquium Sustainable Mobility - Home ([aachener-kolloquium.de](http://aachener-kolloquium.de)) or please contact:

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