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ONE FOR ALL 4 congresses in one event

chassis.tech plus

The chassis and automated driving systems in a tradeoff between dynamics and comfort

Improving chassis functions with methods, innovations, and driving simulators

chassis.tech

Active chassis systems – development process, predictive models, and NVH optimization

steering.tech

Modern steering systems and all-wheel steering, steer-by-wire, and holistic development methods

brake.tech

Safe braking systems – testing technology, brake dust analysis, and electrification

tire.wheel.tech

Innovative tire-wheel components optimized testing methods for vehicle dynamics, legislation, and the environment



Prof. Dr. Peter E. Pfeffer Hochschule München University of Applied Sciences Scientific Director of the Symposium

Welcome

The chassis still has a great future. After all, it has the vital job of transforming the commands from the driver to the wheels and the road. Only a car's steering, brakes, and wheel suspension ensure that passengers and goods are carried to their destination safely, precisely, and comfortably, and even in a sporty manner if preferred. These many different tasks require chassis engineering that has a deep understanding of the systems involved and also takes into account the two mega trends of powertrain electrification and automated driving.

chassis.tech plus, which is being held for the 12th time in June 2021, is a unique event throughout Europe that will bring together numerous leading experts in chassis systems, steering, brakes, and tires/wheels from all over the world for an industry-wide exchange of ideas and a transfer of knowledge. Renowned speakers from industry and research will discuss the very latest developments in the chassis, steering systems, brakes, and wheels/tires in four parallel strands of lectures.

You can also look forward to keynote lectures given by Peter Langen (BMW), Dr. Moo Sang Kim (Hyundai), Dr. Ingo Albers (Porsche), Jennifer Endres (Bosch Automotive Steering), and Dr. Gero Nenninger (Robert Bosch) on the first day of the symposium. The keynote lectures presented by Markus Hamm (BMW Motorrad) and Steffen Bamberger (Audi Sport) on the second day promise further concentrated information on the latest issues relating to the chassis.

We look forward to welcoming you to the virtual chassis.tech plus 2021 and hope you have an exciting and informative conference.

Peter Pletter

Stay at the cutting edge!

- V Highly relevant technical papers presented by renowned speakers
- Networking in the international expert community
- Innovative products and services

12TH INTERNATIONAL MUNICH CHASSIS SYMPOSIUM

Attend virtually via live streams in all sessions.

One for all - 4 congresses in one event

The International Munich Chassis Symposium is the key worldwide meeting place for the chassis community in the fields of the chassis, steering, brakes, and tires/wheels.

The 1st day will be taken up by the interdisciplinary section chassis.tech plus with two parallel sessions of lectures in the afternoon.

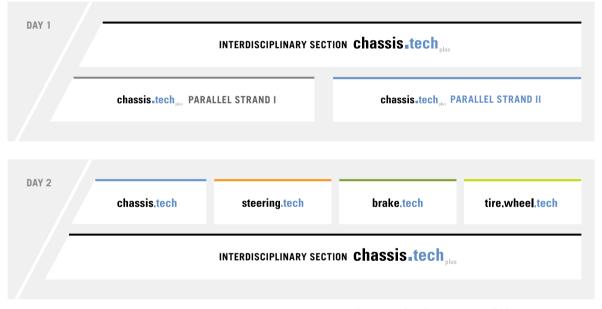
The symposium will focus on overriding issues relating to chassis systems and vehicle dynamics, before dividing up on the 2nd day into the following four parallel sections concentrating on the chassis, steering, brakes, and tires/wheels:

- chassis.tech
- steering.tech
- brake.tech
- tire.wheel.tech

In the afternoon, the parallel sections will merge together again for the interdisciplinary section chassis.tech plus.

The focus of the 2021 conference will be on new chassis functions, steer-by-wire systems, brake dust analysis, and tire tests. It will examine ways to more sustainably meet the customers' increasing demands regarding agility and comfort as well as the requirements of legislation and the environment.

Participate virtually with our event app and follow the presentations via live streams. You have the opportunity to network with your industry colleagues via numerous functions.



Accompanying virtual trade exhibition on both days

Accompanying exhibition

A virtual trade exhibition will be taking place on both conference days. Manufacturers and suppliers of the automotive industry will present the latest developments in chassis technology to the specialist audience.

Participants

- Manufacturers of passenger cars and commercial vehicles and their suppliers
- Development service providers
- Universities and research institutes
- Manufacturers of measuring, testing, and simulation systems
- Authorities, associations, and testing institutes



chassis.tech plus 2021 as a virtual congress

Participate virtually via live streams and take advantage of our numerous networking opportunities.

The event app offers you

- Q&A feature in the live streams
- "Meet the speakers" in breakout sessions
- 1:1 video chats with attendees, exhibitors and speakers
- a virtual networking area
- live polls
- your personal program overview
- a virtual exhibition
- all available conference documents in one place for download
- as well as other useful functions





Meet the Speakers

You have not yet been able to ask all the questions in the live Q&As? Or you just thought of that one relevant question?

Then meet the speakers of the different sessions for a group conversation via video chat. Take advantage of the breaks and ask more in-depth questions about the topics covered in the previous sessions in the video chat rooms.

Time slots of 20 minutes each are planned. The chat rooms can hold up to 50 people. Due to the international nature of the event, English will be spoken in the chat room.

Don't miss this opportunity to ask further questions and get more ideas for your future work.



Hochschule München University of Applied Sciences

Scientific Director of the Symposium. Head of chassis.tech plus section



Dr. Alexander Editor-in-Chief ATZ | MTZ Group, Springer Nature

Michael Reichenbach /ice Editor-in-Chief ATZ, Springer Nature

Our four Scientific Advisory Boards, which are made up of prominent figures from the relevant field, provide support during the planning phase of the conference and help to identify suitable topics.

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Dr. Veit Held

Egbert Bakker

Friedrich Eichler

Dr. Christoph Elbers

Prof. Hideo Inoue

Thomas Kutsche

Kanagawa Institute of Technology,

Prof. Dr. Pim van der Jagt

AB Dynamics Europe GmbH

Prof. Dr. Markus Lienkamp

Volkswagen AG

ZF Group

Japan

ZE Group

TLL Munich

Heinz Müllner

Stefan Resch

TÜV SÜD AG

MAN Truck & Bus SE

Prof. Bernhard Schick

Kempten University of

Hyundai Motor Europe

Technical Center GmbH

Christoph Schulenburg

Mercedes-Benz AG

Martin Schwarz

BMW Group

Applied Sciences

Timo Schöning

Opel Automobile GmbH

Head of chassis.tech section

Volvo Car Group, Sweden

Prof. Dr. Lutz Eckstein

RWTH Aachen University



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Ralf Schweizer AUDI AG Head of tire.wheel.tech section

Stephane Bertoldi University of Applied Sciences

TÜV SÜD Product Service GmbH

Maxion Wheels EAAP Holding GmbH

Karlsruhe Institute of Technology (KIT)

Dr. Patrick Gruber University of Surrey, UK

Klaus Krause Hankook Tire Co. I td.

Prof. Dr. Günter Leister tire.wheel.mobility solutions

Michael Staude TÜV SÜD Product Service GmbH

Edwin van der Stad Nexen Tire Europe s.r.o

Prof. Dr. Andreas Wagner University of Stuttgart

Continental Reifen Deutschland GmbH

Prof. Dr. Makoto Yamakado Kanagawa Institute of Technology, Japan

Keynote lectures

In their keynote lectures, renowned speakers from the industry will provide forward-looking insights that go beyond the technical contents and illuminate the current issues from many different perspectives. In this way, the lectures, with their international focus, will be particularly important as a trend barometer for the conference.

TUESDAY. 29-06-2021 / MORNING / VIRTUAL PLENARY



BMW iX



Challenges for a smart mobility service provider



A digital link to sheer driving pleasure -





Beyond borders -

WEDNESDAY, 30-06-2021 / AFTERNOON / VIRTUAL PLENARY



BMW Motorrad driving assistance

systems

Markus Hamm Team Leader BMW Motorrad Development Digital Bike, Safety, Comfort, Offboard Functions, BMW AG



Challenges in powertrain development and vehicle dynamics for the future portfolio of Audi Sport GmbH

Aschaffenburg GmbH

ZF Group Prof. Dr. Dr.

(Honorary Chairman)

Robert Bosch Automotive Steering GmbH

Ford-Werke GmbH

Mercedes-Benz AG

Prof. Dr. Manfred Plöchl TU Vienna, Austria

Kristof Polmans thyssenkrupp Presta AG, Liechtenstein

BMW Group

Hitachi Astemo, Ltd., Japan





Daniel Alt Joyson Safety Systems

Thilo Bitzer

Hans-Hermann Braess

Jennifer Endres

Frank Esser

Hans Joachim Kieserling

Hirofumi Matsuoka JTEKT Corporation, Japan

Bertram Möller Nexteer Automotive Germany GmbH

Dr. Matthias Schölzel

Dr. Yasuii Shibahata

Head of brake.tech section Prof. Dr. Eberhard Drechsel formerly Hochschule München

Karl Friedrich Wörsdörfer

Continental Teves AG & Co. oHG

Georg Frentz Mercedes-Benz AG

Alexander Gaedke Robert Bosch GmbH Dr. Falk Hecker Knorr-Bremse SfN GmbH

Dr. Sebastian Kruse AUDI AG

> Tobias Linke MAN Truck & Bus SF

Prof. Dr. Giampiero Mastinu Politecnico di Milano, Italy

TU Chemnitz Alexander Prahst

Dr. Ing. h.c. F. Porsche AG

BMW Group

htw saar





Prof. Dr. Ralph Mayer

Dr. Ralf Stroph

Prof. Dr. Rüdiger Tiemann



Michelin Reifenwerke AG & Co. KGaA Stefan Dittmar **Ralf Duning**

Prof. Dr. Frank Gauterin



Dr. Moo Sang Kim Senior Vice President, Head of Chassis Tech. Unit, Hyundai Motor Company, Republic of Korea



11:45 (From I. to r.) Jennifer Endres Vice President Engineering System and Advance, Robert Bosch Automotive Steering GmbH **Dr. Gero Nenninger** Director Systems Engineering Vehicle, Robert Bosch GmbH

connected and pre-integrated solutions for a new mobility era



Steffen Bamberger Head of R&D, Audi Sport GmbH

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09:15 Welcome and opening Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group, Springer Nature; Prof. Dr. Peter E. Pfeffer, Automotive Engineering, Hochschule München University of Applied Sciences

09:30 - 10:30 - Virtual plenary

KEYNOTE LECTURES I

Moderation: Prof. Dr. Peter E. Pfeffer, Automotive Engineering, Hochschule München University of Applied Sciences



09:30 / A digital link to sheer driving pleasure – BMW iX

Peter Langen, Senior Vice President Driving Dynamics, BMW AG



10:00 / Challenges for a smart mobility service provider Dr. Moo Sang Kim, Senior Vice President, Head of Chassis Tech, Unit, Hyundai Motor Company, Republic of Korea

10:30 Coffee break – Use the time for the virtual exhibition and networking

11:15 - 12:15 - Virtual plenary

KEYNOTE LECTURES II

Moderation: Prof. Dr. Peter E. Pfeffer, Automotive Engineering, Hochschule München University of Applied Sciences

KEYNOTE

11:15 **Porsche Tavcan – curve sketching** Dr. Ingo Albers, VP Chassis, Dr. Ing. h.c. F. Porsche AG

KEYNOTE

11:45 / Beyond borders – connected and pre-integrated solutions for a new mobility era Jennifer Endres, Vice President Engineering System and Advance, Robert Bosch Automotive Steering GmbH:

Dr. Gero Nenninger, Director Systems Engineering Vehicle, Robert Bosch GmbH

12:15 - 12:45 - Virtual plenary

SHORT INTERVIEWS WITH EXPERTS OF THE INDUSTRY

Moderation: Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group, Springer Nature

12:45 Lunch break – Use the time for the virtual exhibition and networking



12:55 - 13:15

Meet with the speakers of the sessions "Keynote lectures | & ||" for in-depth Q&A via video chat (20 min. / max. 50 ppl.)

PARALLEL STRAND I

14:15 – 15:45. Parallel strand I – Virtual room

DRIVING SIMULATORS

Moderation: Timo Schöning, Head of Section Driving Performance, Hyundai Motor Europe Technical Center GmbH

14:15 Controllability assessment after chassis component damage on the dynamic driving simulator

> Dr. Thomas Kersten, Manager Rear Axle Development. Volkswagen AG [in cooperation with Kempten University of Applied Sciences, MdynamiX AG and TRE GmbH]

14:45 Enhance ride comfort evaluation on the driving simulator with real-time multi-body models

Guido Tosolin, Senior Product Manager Chassis Development, Applus IDIADA Group, Spain [in cooperation with Toyota Motor Europe, Belgium]

15:15 Optimizing the vehicle development process by combining driving simulators and virtual test driving

Alexander Frings, Manager Engineering Services, IPG Automotive GmbH [in cooperation with VI-grade UK Ltd, United Kingdom]

15:45 Coffee break – Use the time for the virtual exhibition and networking

15:55 - 16:15

MEET THE SPEAKERS

Meet with the speakers of the two sessions listed above for in-depth Q&A via video chat (20 min. / max. 50 ppl.)

16:30 - 18:00, Parallel strand I - Virtual room

AUTOMATED DRIVING AND RACING

Moderation: Prof. Dr. Markus Lienkamp, Director, Institute of Automotive Technology, Technical University of Munich

16:30 Development of an objective evaluation method for manual and automated parking maneuvers

Thomas Boscher, Staff Member Research Automated Driving and Vehicle Dynamics, Faculty of Mechanical Engineering, Kempten University of Applied Sciences [in cooperation with MdynamiX AG and Hochschule München University of Applied Sciences]

17:00 The HEAT is on! – Functional safety of chassis functions for highly automated public transportation

Dr. Marcus Perner, Technical Consultant for Functional Safety of Chassis Functions, IAV GmbH

17:30 Indy Autonomous Challenge – autonomous race cars at the handling limits

Alexander Wischnewski, Research Associate, Chair of Automatic Control, Technical University of Munich

18:10 - 18:30

MEET THE SPEAKERS 🛛 😣

Meet with the speakers of the two sessions listed above for in-depth Q&A via video chat (20 min. / max. 50 ppl.)

AFTERNOON

PARALLEL STRAND II

	14:15 – 15:45, Parallel strand II – Virtual room
	INNOVATIVE CHASSIS SYSTEMS
	Moderation: Stefan Resch, Corporate Strategy & Innovation, TÜV SÜD AG
:15	An innovative rear axle concept for optimized longitudinal comfort Stefan Büchner, Development Engineer, BMW Group
:45	Development process of the Multi-Link Torsion Axle (MLTA) – a space-optimizing suspension for BEVs Tobias Nießing, Research Assistent, Jens Olschewski, Ph.D. Student, Institute of Automotive Lightweight Design, University of Siegen
:15	How heavy-duty trailer hybridization improves vehicle performance and stability Dr. Johannes Heseding, Function Development Leader, ZF Group Commercial Vehicle Control Systems

14:

14:

15.

16:30 - 18:00, Parallel strand II - Virtual room

NEW METHODS AND SYSTEMS

Moderation: Dr. Veit Held, Senior Manager Advanced Engineering Chassis and Chassis Control Systems, Opel Automobile GmbH

16:30	Opportunities and challenges of integrated wheel corner solutions
	Stefan Eitzinger, Chief Engineer Chassis, AVL List GmbH, Austria [in cooperation with AUDI AG, Ilmenau University of Technology, both Germany and University of Surrey, United Kingdom]
17:00	Smart vehicle dynamics controller for endurance testing and an outlook to Al Fabian Pfitz, Chassis Engineer, Porsche Engineering Services GmbH
17:30	New approaches to vehicle health management via a digital twin Joe Klesing, Executive Director Product Lines

Steer-by-Wire & Software, Peter Schmitt, Manager R&D, Nexteer Automotive Corp., USA

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08:30 - 10:00, chassis.tech section - Virtual room

SUSPENSION AND RIDE COMFORT

Moderation: Martin Schwarz, Process Responsible Driving Dynamics, BMW Group

- 08:30 Experimental nonlinear system identification of a shock absorber focusing on secondary ride comfort Ronnie Dessort, PhD Student Modeling, Simulation Mechanical Chassis, Objectification, BMW Group [in cooperation with TU Dresden]
- 09:00 Nonlinear model predictive control for active and semi-active suspension control Miguel Dhaens, Engineering Manager, Tenneco Automotive Europe bvba, Belgium [in cooperation with University of Surrey, United Kingdom]
- 09:30 Study for ride comfort application by functional models: new excitation method and model extension Lorenzo Falchi, Engineer, Hyundai Motor Europe Technical Center GmbH

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08:30 - 10:00, steering.tech section - Virtual room

ALL-WHEEL STEERING

Moderation: Dr. Christoph Bittner, Director Development Chassis Systems, Dr. Ing. h.c. F. Porsche AG

- 08:30 The rear-axle steering with large angles of the new S-Class from Mercedes-Benz Dr. Magnus Rau, Manager Rear-Axle Steering. Mercedes-Benz AG
- 09:00 Development of an active rear-steering system with large-angles to achieve both natural feel and a small turning radius at low speed Yohei Nagai, Engineer, 2nd Chassis & Vehicle Safety System Engineering Dept., AISIN Seiki, Co., Ltd., Japan

09:30 City buses with all-wheel steering best practice example of MOVITAS

Wolfgang Stadie, Head of Sales & Marketing, ME Mobil Elektronik GmbH; Erik Henneken, Manager E-Mobility, Tribus Group, Netherlands

brake.tech

08:30 - 10:00, brake.tech section - Virtual room

FUTURE BRAKE SYSTEMS AND TESTING TECHNOLOGY

Moderation: Alexander Gaedke, Vice President, Program Management IPB, Robert Bosch GmbH

- 08:30 Future brake systems: requirements and solutions Matthias Greiner. Senior Vice President Platform Development, Brake Systems, Robert Bosch GmbH
- 09:00 Investigation of the fluctuation range of the cold compressibility of brake linings Falko Wagner, Academic & Research Staff Member, Department of Vehicle Research, TU Chemnitz

09:30 Impact of regenerative braking optimization on drive train design requirements Ektor Karvotakis, Project Assistant, Department of Mechanics and Maritime Sciences, Chalmers University of Technology, Sweden

10:00 Coffee break – Use the time for the virtual exhibition and networking

10:10 - 10:30

MEET THE SPEAKERS



10:30 - 12:00, chassis.tech section - Virtual room

ACTIVE SUSPENSION AND LIGHTWEIGHT DESIGN

Moderation: Klaus Baltruschat, Senior Account Manager, Head of Sales: Tires & Wheels, TÜV SÜD Product Service GmbH

10:30 Reusable architectures for safety-critical smart-actuator systems

Dr. Connel Williams, Senior Engineering Manager, ZF Group, United Kingdom

- 11:00 The complexity of HV-component development with a focus on suspension systems David Benz, Senior Developer Test Systems, Silver Atena GmbH
- 11:30 An innovative and safe active lightweight design chassis concept

Oliver Deißer, Scientific Engineer, Vehicle Architectures and Lightweight Design Concepts, DLR – Institute of Vehicle Concepts

10:30 - 12:00, steering.tech section - Virtual room

DEVELOPMENT METHODS

Moderation: Dirk Ferge, Senior Manager Business Development & Innovation, JTEKT Europe

A virtual development approach using an advanced 10.30 HiL steering bench Dr. Fabio Gerbino, Driving Simulators Responsible, Maserati

S.p.A., Italy [in cooperation with Meccanica 42, Italy]

- 11:00 Precise calibration of steering feel based on model identification Fan Xu, Steering Design Senior Engineer, GAC R&D Center, China
- 11:30 A steering system designed by an integrated approach, manufactured for small series Claudio Ricci, Head of Advanced Vehicle Dynamics, Silvio La Tassa, Head of Engineering, Danisi Engineering S.r.l., Italy

10:30 – 12:00. brake.tech section – Virtual room

BRAKE-DUST EMISSIONS AND LEGISLATION

Moderation: Dr. Ralf Stroph, Team Leader Vehicle Dynamics Research, BMW Group

- 10:30 Preview of future developments in non-exhaust emissions Christof Danner, Project Manager Chassis, AVL List GmbH, Austria
- 11:00 Friction, wear and emissions in brakes Prof. Dr. Georg Ostermeyer, Head, Institute of Dynamics and Vibration, Technical University of Braunschweig
- 11:30 Comparison of the particle emission behavior of automotive drum brakes and disc brakes Christopher Hamatschek, Research Assistant, Department

of Automotive Engineering, Ilmenau University of Technology [in cooperation with AUDI AG]

12:10 - 12:30



tire.wheel.tech

	08:30 – 10:00, tire.wheel.tech section – Virtual room
	INNOVATIONS IN TIRES AND WHEELS
	Moderation: Stefan Dittmar, Team Leader Wheels, TÜV SÜD Product Service GmbH
08:30	The "Mobility Ring" – a new concept for recovery of mobility after a tire breakdown Prof. Dr. Günter Leister, CEO, tire.wheel.mobility solutions [in cooperation with GV Engineering GmbH and FAIST Light Metals Ltd., Italy]
09:00	Development of a forged-equivalent aluminum wheel in the Mubea Cast Forging (MCF) process Josef Gartner, Head of Process Development, Mubea Performance Wheels GmbH, Austria; Markus Huber, SE-Team Manager – Wheels, Tyres, Tyre Pressure Monitoring Systems, AUDI AG
09:30	The wheel attachment in transition towards e-mobility – new challenges driving new test procedures Dr. Daniel Koch, Director Research & Development, ABC Umformtechnik GmbH & Co. KG

Meet with the speakers of the four sessions listed above for in-depth Q&A via video chat (20 min. / max. 50 ppl.)

10:30 - 12:00, tire.wheel.tech section - Virtual room

VEHICLE DYNAMICS AND NVH

Moderation: Edwin van der Stad, Vice President Europe, Nexen Tire Europe s.r.o.

- Influence of wheel bending stiffness 10:30 on lateral tire characteristicsn Michael Linden, Research Assistant, Institute for Automotive Engineering (ika), RWTH Aachen University 11:00 Tire model to feature multi-body simulation-based NVH assessment of a car including air cavity Dr. Peter Kindt, Senior R&D Engineer – NVH/Acoustics, Goodvear S.A., Luxembourg; Michal Milata, Development Engineer Simulation Acoustics Complete Vehicle / Body Structure, AUDI AG [in cooperation with Fraunhofer-ITWM]
- 11:30 Early assessment of tire-related ride and NVH comfort based on component and system-level measurements Ventseslav Yordanov, Scientific Researcher Driving Dynamics & Acoustics, Institute for Automotive Engineering (ika), RWTH Aachen University [in cooperation with Ford-Werke GmbH]

12:00 Lunch break – Use the time for the virtual exhibition and networking

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13:30 - 15:00, chassis.tech section - Virtual room

NVH

Moderation: Prof. Dr. Pim van der Jagt, Technical Director, AB Dynamics Europe GmbH

13:30 Holistic approach to axle NVH assessment and optimization Dr. Hendrik Sell, Head of Methods & Tools,

Vibracoustic SE & Co. KG

Potential of road surface replicas 14:00 for use on laboratory test rigs

> Gunnar Böttcher, Research Assistant Research Area Vehicle Dynamics & Acoustics, Institute for Automotive Engineering (ika). RWTH Aachen University [in cooperation with Ford-Werke GmbH and fka GmbH]

Acoustic challenges in the development of a 14:30 mechatronic active roll control system Harald Schäfer, Acoustics Expert, Schaeffler Technologies AG & Co. KG

steering.tech

13:30 - 15:00, steering.tech section - Virtual room

STEER-BY-WIRE

Moderation: Kristof Polmans, Senior Vice President Research and Advanced Engineering, thyssenkrupp Presta AG, Liechtenstein

13:30 Driving the future – benchmarking and verification of drive-by-wire functions

Christian Wagner, Development Engineer, Steering & Functional Safety Chassis, IAV GmbH

14:00 Steering safety and availability standards for steer-by-wire systems

Dr. Michael Hales, Engineering and Product Line Director Steer-by-Wire, Nexteer Automotive Corp., USA

14:30 Evaluation method of subjective rating for SbW controllability with physiological signal analysis Jens Müller, Senior Manager Steering, Mando Corporation Europe GmbH

[in cooperation with Mando Corporation, Republic of Korea]

brake.tech

13:30 - 15:00, brake.tech section - Virtual room

DRIVETRAIN ELECTRIFICATION. PARKING BRAKES AND BIG DATA

Moderation: Dr. Falk Hecker, VP Technology – Driver Assistance and Automated Driving, Knorr-Bremse Systeme für Nutzfahrzeuge GmbH

13:30 Functional enhancement of an electric parking brake by "sensorless" motor angle measurement

> Alexander Hoßfeld, PhD Student, ZF Group Commercial Vehicle Control Systems [in cooperation with TU Darmstadt and DMecS Development of Mechatronic Systems GmbH & Co. KG1

14:00 Evolution of commercial vehicle brake systems through drive train electrification

> Matthias Seidenschwang, Chief Product Owner E-Mobility eCUBATOR, Knorr-Bremse Systeme für Nutzfahrzeuge GmbH

14:30 Connected and virtualized development of **Bosch Chassis Systems Control**

Andreas Hoffmann, Project Manager Connected Braking Systems, Dimitrios Stavrianos, Project Manager Connected Digital Twin, Robert Bosch GmbH

15:00 Coffee break – Use the time for the virtual exhibition and networking

15:10 - 15:30

MEET THE SPEAKERS



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KEYNOTE for the future portfolio of Audi Sport GmbH

16:30 Closing remarks

The current program is also available online: www.atzlive.de/en/chassis



tire.wheel.tech

	13:30 – 15:00, tire.wheel.tech section – Virtual room			
ENVIRONMENT AND NEW LEGISLATION				
Moderation: Ralf Schweizer, Head of Development Wheels, Tires, Tire Pressure Monitoring Systems, AUDI AG				
13:30	Novel approaches for measuring and predicting particulate emissions from automotive brakes and tires Dr. David Hesse, Research Assistent, Department of Automotive Engineering, Ilmenau University of Technology			
14:00	Characterization of tire road wear particles in the field and lab Dr. Frank Schmerwitz, Senior Engineer, Global Tire Testing, Continental Reifen Deutschland GmbH			
14:30	Technical challenges for implementation of new legislation on wet grip of worn tires Lars Netsch, Manager Standards and Regulations Tires & Wheels, TÜV SÜD Product Service GmbH			

Meet with the speakers of the four sessions listed above for in-depth Q&A via video chat (20 min. / max. 50 ppl.)

15:30 – 16:30, Virtual plenary

KEYNOTE LECTURES III

Moderation: Prof. Dr. Peter E. Pfeffer, Automotive Engineering, Hochschule München University of Applied Sciences

15:30 BMW Motorrad driving assistance systems

Markus Hamm, Team Leader BMW Motorrad Development Digital Bike, Safety, Comfort, Offboard Functions, BMW AG

16:00 / Challenges in powertrain development and vehicle dynamics

Steffen Bamberger, Head of R&D, Audi Sport GmbH

Prof. Dr. Peter E. Pfeffer, Automotive Engineering, Hochschule München University of Applied Sciences; Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group, Springer Nature





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For information on the various presentation options, please contact:

Elke van Lon Phone +49 611 7878-320 elke.vanlon@springernature.com

Registration fee

Participation via live stream

€ 995.– plus VAT

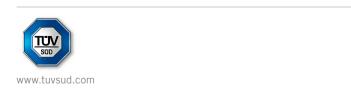
The "participation via live stream" includes the keynote lectures and all lectures of the two parallel strands on the 1st day as well as the four parallel sections on the 2nd day as live streams. Also included are the event documents and the use of the event app.

The registration fee also includes admission to the accompanying trade exhibition virtually via the event app.

University members of the IAVSD receive a 50 % discount on the registration fee.

Languages used in the presentations

German and English with simultaneous interpreting (German – English)



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Online Registration and Further Information:

www.atzlive.de/en/chassis



Date

29 - 30 June 2021

Venue

Virtually via live stream at your workplace



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Further Information and Online Registration:

www.atzlive.de/en/chassis

chassis.tech plus 2021 29 – 30 June 2021, virtually via live stream at your workplace

Your contact person

Hannah Klusmann Abraham-Lincoln-Straße 46 65189 Wiesbaden, Germany Phone +49 611 7878-321 Fax +49 611 7878-452 ATZlive@springernature.com

The organizer

ATZlive Spotlight on Powertrain and Vehicle Engineering

Our events are firm fixtures in the diaries of automotive engineers and engine specialists. We offer a range of innovative conferences on the latest topics in the world of automotive engineering and engine technology, from the perspective of research, development, and applications. Our close collaboration with the

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