



Dr. Sebastian Siegl (Audi)

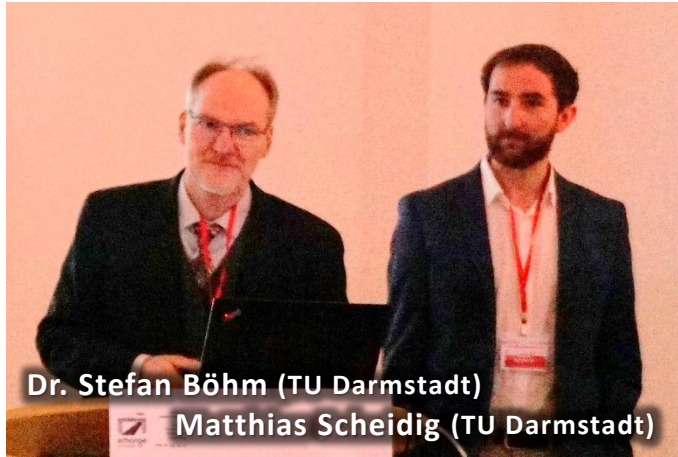


Pau Kuipers (Idiada PG)



Dr. Nils Katorke (Mercedes)

Rainer Imdahl (Mercedes)



Dr. Stefan Böhm (TU Darmstadt)

Matthias Scheidig (TU Darmstadt)



Participants from 68 Companies and 18 Countries



TECHNISCHE UNIVERSITÄT DARMSTADT



Institut für Verkehrswegebau

Institut of Transportation Infrastructure Engineering

Prof. Dr.-Ing. Jia Liu



Bernd Pfau (Porsche)

Johannes Hogrebe (Tilke)



Jennifer Dietrich (Traffic lines)



Marco Krohn (Pferdsfeld Testcenter)

The workshop “Bad Roads Well Built 2024” was organized for the twelfth time by the Institute of Transportation Infrastructure Engineering at the Technische Universität (TU) Darmstadt/Germany on March 1st 2024.

More than 120 experts from 68 companies and institutes out of 18 countries met in Darmstadt. Seven presentations given by well known experts from the industry and the University gave an overview about newest developments of test track design, construction, and maintenance. The experts, engineers, users, and operators of Proving Grounds and test tracks shared their experience in intense discussions.

A visit of the Hockenheimring and the Porsche Experience Center (PEC) took place a day prior. The visit included guided tours through the PEC building and tracks and the participants were able to drive the Hockenheim Grand Prix Track with e-karts.

A dinner in the evening closed the first day of the workshop.

Bad Roads Well Built 2024

- Test Tracks for the Automotive Industry

- Design, Construction, Maintenance and Operation

Organizer: Dr.-Ing. Gerhard Faust
Dr. rer.nat. Rainer Hart

Agenda

| Time (CET) | Topic | Speaker |
|---------------------|---|--|
| 09:00 am - 09:15 am | Welcome and Opening | Prof. Dr.-Ing. Jia Liu Dr.-Ing. Gerhard Faust |
| 09:15 am - 09:30 am | Welcome Address | Professor Dr. Thomas Walther Vice President Innovation and International Affairs (TU Darmstadt) |
| 09:30 am - 10:00 am | Autonomous Driving – Requirements for construction of special test tracks | Dr.-Ing. Sebastian Siegl (Audi AG, Germany) |
| 10:00 am - 10:30 am | Autonomous Driving – Development of test facilities for new mobility at IDIADA | Marc Pinilla, M.Eng. (IDIADA, Catalonia, Spain) Pau Kuipers, B.Sc. (IDIADA, Catalonia, Spain) |
| 10:30 am - 11:00 am | Coffee Break | |
| 11:00 am - 11:30 pm | Autonomous Driving – Additional requirements for markings, premarkings, pavement markings etc. | Dr.-Ing. Nils Katzorke (Mercedes, Germany) Dipl.-Ing. Reiner Imdahl (Mercedes, Germany) |
| 11:30 am - 12:10 am | New Technologies – Research at the TU Darmstadt – Asphaltpetrology – FWD (Falling Weight Deflectometer) | Dr.-Ing. Stefan Böhm (TU Darmstadt) Matthias Scheidig, M.Sc. (TU Darmstadt) |
| 12:10 pm - 02:00 pm | Lunch Break | |
| 02:00 am - 02:30 pm | New Technologies – Demarking and road cleaning with modern water jet technology | Jennifer Diedrich (Traffic lines, Germany) |
| 02:30 pm - 03:00 pm | Proving Grounds and Test Tracks – Low friction surface using polished concrete | Dipl.-Ing. Bernd Pfau (Porsche AG, Germany) Dipl.-Ing. Johannes Hogrebe (Tilke, Germany) |
| 03:00 pm - 03:15 pm | Coffee Break | |
| 03:15 pm - 03:45 pm | Proving Grounds and Test Tracks – Conversation of a former airfield to a proving ground | Marco Krohn (Testcenter Pfersfeld, Germany) |
| 03:45 pm - 04:00 pm | Final Discussion and Closure | Prof. Dr.-Ing. Jia Liu Dr.-Ing. Gerhard Faust |

Hockenheimring & PEC Visit, Feb. 29th and Workshop Impressions Mar.1st



Hockenheimring and PEC



Introduktion for the ride



BRWB Team on the track



Welcome Address



Opening



Auditorium



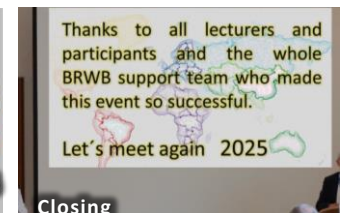
Exhibition and Break Area



Exhibition and Break Area



Workshop since 2013



Closing



Exhibition area, companies:

3D mapping, BRUGG, Colas, Evertz, Fomon, Lehmann & Partner, Kutter, Traffic lines, Triwo, xenomatix

Next workshop:
21. February 2025



Presenters (from the left):

first row: Nils Katzorke, Prof. Dr.-Ing. Jia Liu, Maria Maas, Dr. Rainer Hart, Bernd Pfau
second row: Reiner Imdahl, Dr. Sebastian Siegl, Johannes Hogrebe, Jennifer Diedrich
third row: Marco Krohn, Matthias Scheidig, Dr. Gerhard Faust, Dr. Stefan Böhm, Pau Kuipers

For more information please see: www.brwb.org