



Dr. Robert Rasmussen (Transtec Group)
Eric de Vries (Ford Lommel PG)
Karl-Heinz Schultes (SMB)



Dr. Martin Lipus (Helmholz Centre Potsdam)



Jarno Zaffelli (Dromo Circuit Design)



Mario Peiker (Hart Consult International)



71 Companies from 20 Countries
participated



**TECHNISCHE
UNIVERSITÄT
DARMSTADT**



Institut für
Verkehrswegebau

Institut of
Transportation
Infrastructure
Engineering

Prof. Dr.-Ing. Jia Liu



Maximilian Schütz (TU Darmstadt)
Leandro Harries (TU Darmstadt)
David Kempf (TU Darmstadt)



Tatjana Kunsic (IBQ)



Alfons Horn (MOBA)
Leandro Harries (TU Darmstadt)

The workshop “Bad Roads Well Built 2023” was organized for the eleventh time by the Institute of Transportation Infrastructure Engineering at the Technische Universität (TU) Darmstadt/Germany on March 3rd 2023.

More than 120 experts from 71 companies and institutes out of 20 countries met in Darmstadt. Nine presentations given by well known experts from the industry showed 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 Segula Test Center in Rodgau-Dudenhofen/Germany took place a day prior. Thomas Jordan, the site manager, gave detailed informations about the test tracks and special functions of the facility. The visit included a guided bus tour through the Test Center.

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

Next workshop:
1. March 2024



Presenters (from the left): Dr. Gerhard Faust, Leandro Harries, David Kempf, Alfons Horn, Maria Maas, Dr. Martin Lipus, Maximilian Schütz, Prof. Dr.-Ing. Jia Liu, Karl-Heinz Schultes, Jarno Zaffelli, Tatjana Kunsic, Eric de Vries, Dr. Rainer Hart, Prof. Dr.-Ing. J. Stefan Bald, Mario Peiker, Dr. Robert Rasmussen

Bad Roads Well Built 2023

Test Tracks for the Automotive Industry
– Design, Construction, Maintenance and Operation

Organizers and Moderators: Dr.-Ing. Gerhard Faust
Dr. rer.nat. Rainer Hart

Agenda

Time	Topic	Speaker
09.00 am – 09.15 am	Welcome and Opening , Introduction of Prof. Dr.-Ing. Jia Liu	Prof. Dr.-Ing. J. Stefan Bald, 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	The Lommel Proving Ground Rebuilt of the High Speed Track at PG Lommel	Dr. Robert Rasmussen (The Transtec Group, Inc., USA) Erik de Vries, M. Eng. & M. S. (Lommel PG, Belgium) Dipl.-Ing. Karl-Heinz Schultes (SMB, Germany)
10.00 am – 10.30 am	-----	Coffee Break
10.30 am – 11.00 am	Fiber Optic Technology for Monitoring Asphalt Roads Result of a feasibility study	Dr.-Ing. Martin Lipus (Helmholtz Centre Potsdam, GFZ German Research Centre for Geosciences, Germany)
11.00 am – 11.30 am	Asphalt evenness From Design to Realisation, Best Practice	Jarno Zaffelli, B. Sc. (Dromo Circuit Design, Italy)
11.30 am – 12.00 am	-----	Lunch Break
12.00 am – 12.30 am	Sustainability Recyclability of Road Construction Material and Limits of Reuse for Test Track Construction	Mario Peiker, B. Eng. (Hart Consult International GmbH, Germany)
12.30 am – 01.30 pm	Research at the TU Darmstadt – Asphalt Temperature – Pre-Compaction Process – Sealing of Joints	Maximilian Schütz, M. Sc. Leandro Harries, M. Sc. David Kempf, M. Sc. (all TU Darmstadt, Germany)
01.30 pm – 02.00 pm	-----	Coffee Break
02.00 pm – 02.30 pm	The Black Unknown Bitumen/Binder	Dipl.-Ing. Dipl.-Umweltwiss. Tatjana Kunsic (IBQ – Institut für Baustoff- Qualitätssicherung, Germany)
02.30 pm – 03.00 pm	State of the Art in Paving The Way to Autonomous Paving	Dipl.-Ing. Alfons Horn (MOBA, Germany) Leandro Harries, M. Sc. (TU Darmstadt, Germany)
03.00 pm – 03.30 pm	Final Discussion and Closure	Prof. Dr.-Ing. Jia Liu Dr.-Ing. Gerhard Faust

For more information please see: www.brwb.org

Segula Test Center March 2nd



Workshop Impressions March 3rd



Exhibition area, companies:
Colas, Evertz, Geobruigg, Hart, Hauraton, IBQ, Kutter, Messring, mmlab, Segula, SMB, xenomatic, 3D mapping