

Invitation

Ladies and Gentlemen,

not only digitalization, connectivity and communication are challenges mobile hydraulics have to face, but also the increasing competitive pressure of electric drive technology in mobile machines.

New concepts and solutions will be presented at the 11th Colloquium Mobile Hydraulics both in lectures and at demonstrators - this unique combination gives the participants the opportunity to see the contents of the lectures in hardware implementation and to discuss them at the exhibition.

"Quo vadis mobile hydraulics?"

The participants will receive answers to this question through the presentations, the discussions and the open exchange of opinions with the experts.

Since its foundation 15 years ago, the Institute of Mobile Machines, KIT, has been dealing with topics on propulsion systems for mobile machines. Located in Karlsruhe, the 11th Colloquium Mobile Hydraulics represents a well recognized and established expert platform.

Use this platform to present your latest innovations to a broad professional audience.

We look forward to your contribution.

Yours sincerely



Prof. Dr. Marcus Geimer

Institute of Mobile Machines, KIT, Director

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Supporters of the event

Mobima	Institute of Mobile Machines, KIT
IMN	Institute of Mobile Machines and Commercial Vehicles, TU Braunschweig
VDMA	Verband Deutscher Maschinen- und Anlagenbau e. V.
WVMA	Wissenschaftlicher Verein für Mobile Arbeitsmaschinen e. V.

Organizer

FVA GmbH



11th COLLOQUIUM MOBILE HYDRAULICS

September 10-11, 2020 in Karlsruhe



Call for Papers

Submission latest by **January 26, 2020**
to mhk@fast.kit.edu

Preface

The 11th Colloquium Mobile Hydraulics will take place in Karlsruhe on September 10-11, 2020. Since 1996, this event has enjoyed a special status among professionals, due to presenting implemented solutions in lectures and the possibility to discuss about the demonstrators exhibited on site afterwards. The theoretical contents of the lectures are thus tangible in practice.



Program Committee

- Prof. Dr. M. Geimer, Mobima
- Prof. Dr. L. Frerichs, IMN
- Dipl.-Ing. P.-M. Synek, VDMA
- Dipl.-Ing. P. Winkelhahn, IMN
- M. Wydra (M. Sc.), WVMA

Aim of the Colloquium

The latest developments in mobile hydraulics will be presented, discussed and demonstrated at the colloquium. The key topics are:

- Hydraulic Working System
- Hydraulic Drive Train
- Controller Concepts and Hardware
- Energy Efficiency in Mobile Hydraulic Systems
- Fluids, Condition Monitoring, Predictive Maintenance
- Digitalization, Connectivity and Communication in Mobile Hydraulic Systems

The colloquium serves the exchange of experiences between industry and research. Unconventional and creative contributions are therefore particularly welcome.

Planned Program

Thursday, 09/10/2020, KIT - Campus Ost

- 12:30 p.m. to 06:30 p.m.:
Lectures
Machine Demonstrations
- 07:00 p.m.:
Conference Banquet

Friday, 09/11/2020, KIT - Campus Ost

- 09:30 a.m. to 01:00 p.m.:
Lectures
Machine Demonstrations
Conclusion and Refreshments

Criteria and Information

Authors interested in contributing a paper to the 11th Colloquium Mobile Hydraulics are requested to submit a meaningful abstract. The abstract shall consider the following aspects:

- Title
- Authors (business address, phone, e-mail)
- Abstract (max. 2 pages DIN A4)
- Description of the Demonstration Object
- Participation in Review Process yes / no

Speaking time is 20 minutes with additional 10 minutes for discussion.

The common language is German. Proceedings in English are welcome.

Please send your abstract as PDF-file to the following e-mail:

mhk@fast.kit.edu

More information and templates can be downloaded here:

<https://s.kit.edu/mhk2020>

Key Dates

- Submission of Abstract: 01/26/2020
- Notification of Acceptance: 02/24/2020
- Full Papers with Review: 04/19/2020
- Full Papers without Review: 06/14/2020

Fees for Lecturers

One lecturer and one demonstrator's supervisor can take part in the colloquium free of charge per contribution.