

FLUID POWER – FUTURE TECHNOLOGY!

12th International Fluid Power Conference
October 12-14, 2020



Prof. Jürgen Weber and his team at the Chair of Fluid-Mechatronic Systems at TU Dresden organize the 12th International Fluid Power Conference, held as an online event on October 12-14.

Fluid Power – Future Technology! Giving credit to this motto, the 12th IFK proves that fluid power adapts to technological challenges and delivers cutting edge drive solutions. Due to a variety of control strategies and easy-to-use interfaces for control and monitoring, fluid-mechatronic systems are enablers for production, transportation and processing systems of the future. The seamless integration provides a foundation for the advancing digitalization and automatization within industry and thus for technological progress.

The IFK is a traditional gathering of global fluid power experts worldwide, in order to present, shape and discuss the future of fluid-mechatronic systems. Over 100 international scientific and technical contributions offer an overview of current trends, novel applications and research on the entire field of fluid power.

The organizing team around Prof. Jürgen Weber invite users and manufacturers of fluid power systems to join the first ever digital IFK!

ONLINE PLATFORM

The 12th IFK will be held as an innovative online event due to travel restrictions and health concerns caused by the coronavirus. The organizers are excited to use a digital event platform that meets all the requirements for an attractive and productive discussion platform in a virtual space.

The platform is designed to provide a live conference experience that animates an active participation. The features of the live conference include:

- Intuitive and attractive user interface
- Live moderation
- Presentations will be given live
- Q&A in presentation room via chat, moderated by the Chairman
- Individual Speaker's Corner for every session with public video stream platform for Q&A and discussions
- Digital exhibition site with video stream chat rooms and appointment option
- Private video discussion rooms for two or more persons
- Networking option via smartphone app
- Composition of your individual conference program

Experience an interactive conference on a virtual platform!

TICKETS

Regular	480 € plus VAT
Discounted (University members/presenters/retirees)	340 € plus VAT








Visit www.ifk2020.com

MONDAY, OCTOBER 12, 2020






Materials	System design & integration	Novel system solutions
Additive manufacturing	Components	Intelligent control
Fluids	Pumps	Mobile applications
Fundamentals	Pumps	Mobile applications

TUESDAY, OCTOBER 13, 2020

 Digital systems	
 Digital systems	 Novel displacement machines
 Industrial applications	Components
Predictive maintenance	 Electro-hydraulic actuators

KEYNOTE SPEECH

WEDNESDAY, OCTOBER 14, 2020

 Pneumatics	 Mobile applications
 Special domains	Mobile applications
 Novel system architectures	 Actuators & sensors
Safety & reliability	Actuators & sensors

FAREWELL ADDRESS + BEST PAPER AWARD














Conference hall during IFK 2016 in Dresden



Find detailed program at
www.ifk2020.com/program-2/

GENERAL LECTURES

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Digital mobile machines – From cloud down to earth
 Jürgen Weber, TU Dresden, LFD, Germany
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Industrial hydraulics: Now – Next – Beyond
 Steffen Haack and Mark Krieg, Bosch Rexroth AG, Germany
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Digitization of the hydraulics – uniform semantics only allows interoperability
 Martin Hankel, Bosch Rexroth AG, Germany
- 
Displacement machines – key elements of future technology
 Robert Rahmfeld, Danfoss Power Solutions GmbH & Co. OHG, Germany
- 
User-oriented systematic of control concepts for fluid-mechatronic servodrives
 Peter Anders, HS Furtwangen, Germany
- 
Electrohydrostatic actuation system – an (almost) complete system view
 Dirk Becher, Moog GmbH
- 
Pneumatics and Industry 4.0 – opportunity or contradiction
 Peter Post, Festo AG & Co. KG, Germany
- 
ZF view on future drivetrains for compact and medium size wheel loaders
 Jürgen Legner, ZF Friedrichshafen AG, Germany
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The roof wing opening system of the UAE pavilion at Expo 2020
 Paolo Leutenegger and Carlo Vergano, Diplomatic Motion Solutions SpA, Italy
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Model based engineering for electro-hydraulic solutions
 Matthias Wahler, Bosch Rexroth AG, Germany
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MEMS sensors in hydraulics, an opportunity to create smart components
 Massimiliano Ruggerie, Imamoter, Italy