

Registration

Event Information



Conference Announcement and Invitation

**3<sup>rd</sup> International IPS Cable Simulation User Conference  
on June 13<sup>th</sup> and 14<sup>th</sup>, 2017 in Speyer, Germany**

- Yes, I will attend the conference. The conference fee is 600 € plus VAT.
- No, I cannot attend, but I am interested in receiving further information.

\_\_\_\_\_  
Title, First name, Family name

\_\_\_\_\_  
Company/Institution, Department

\_\_\_\_\_  
Postal address, Zip code, City, Country

\_\_\_\_\_  
Phone

\_\_\_\_\_  
E-mail

\_\_\_\_\_  
Date, Signature

Please send this registration by May 31<sup>st</sup>, 2017 via E-mail to [ips.conference@flexstructures.de](mailto:ips.conference@flexstructures.de)

**Conference language**

- Contributions and presentation slides in English

**Conference fee**

- Regular conference fee (June 13<sup>th</sup> and 14<sup>th</sup>, 2017): 600 € plus VAT
- Speakers: free

**Location and accomodation**

Technik Museum Speyer

Am Technik Museum 1, 67346 Speyer

[www.speyer.technik-museum.de/en/](http://www.speyer.technik-museum.de/en/)

We have reserved a contingent of rooms in the "Hotel am Technik Museum Speyer". Please make your booking early (key word: fleXstructures).

Phone: +49(0)6232/67100, E-mail: [info@hotel-speyer.de](mailto:info@hotel-speyer.de)

Alternative hotels are available here:

[www.speyer.de/sv\\_speyer/en/Tourism](http://www.speyer.de/sv_speyer/en/Tourism)

**Contact with regard to organization/contributions**

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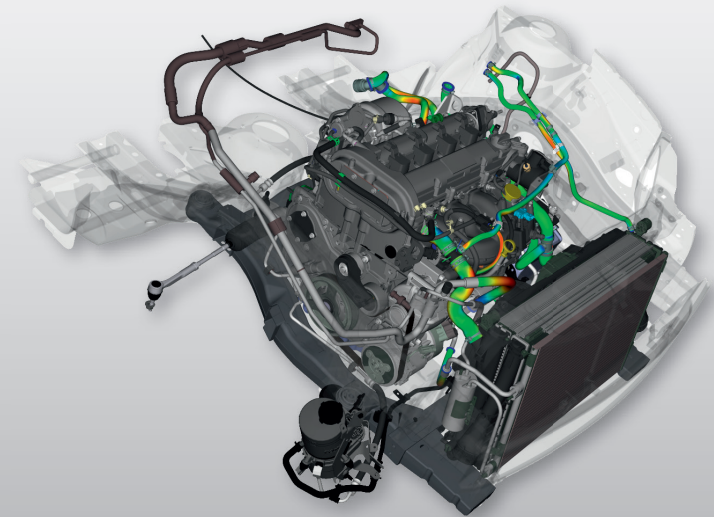
Fraunhofer ITWM

Phone: +49 (0)631/316 00-44 66

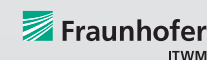
E-mail: [klaus.dressler@itwm.fraunhofer.de](mailto:klaus.dressler@itwm.fraunhofer.de)

# 3<sup>rd</sup> International IPS Cable Simulation User Conference 2017

June 13<sup>th</sup> and 14<sup>th</sup>, 2017 • Speyer, Germany



In cooperation with



## 3<sup>rd</sup> International IPS Cable Simulation User Conference 2017

Program  
Tuesday, June 13<sup>th</sup>, 2017

Wednesday, June 14<sup>th</sup>, 2017

fleXstructures GmbH, IPS AB, Fraunhofer-Chalmers Centre FCC and Fraunhofer ITWM are pleased to invite you to attend the 3<sup>rd</sup> International IPS Cable Simulation User Conference.

Many users of IPS Cable Simulation from all over the world already seized the opportunity to participate in our conferences, to learn more about the making of the software and new features and to share their own experiences with users from different domains and different countries.

With the 3<sup>rd</sup> IPS Cable Simulation User Conference 2017, we will continue this tradition and strengthen the international network of experts applying the cable simulation technology.

IPS Cable Simulation is a powerful innovative tool for design, virtual assembly and DMU of flexible parts. Its main capability is the real time simulation of the deformation of wires, hoses and cable bundles of various material types and a variety of cross-section profiles. Due to unique and outstanding features such as cable length optimization and automatic routing including clips, IPS Cable Simulation has become the leading tool in its specific domain.

### Morning

- Registration (9 a.m.)
- Welcome and opening, Klaus Dreßler/Fraunhofer ITWM
- **Integration of flexible parts simulation into the automotive development process**, Nicolas Hofheinz, Bernhard Wolf/BMW
- **Validation of mechanical input-parameters of hoses**, Julian Merz/OPEL
- **IPS Robotics**, Johan Carlson/FCC
- **Introduction to MeSOMICS – Measurement System for the Optically Monitored Identification of Cable Stiffness**, Fabio Schneider/Fraunhofer ITWM

### Afternoon

- **Compliant part analysis: Global collaboration and data management**, Meike Schaub/OPEL
- **Analyzing and optimizing the mounting of hydraulic hoses**, Kazushige Ueki/Komatsu
- **Measuring and simulation of pressurized hoses**, Fredrik Karlsson/SPECMA
- **Optimization of the motion of a WAS-cable in an axle**, Tobias Rieger, Ulf Hoepfner/John Deere
- **Dynamic simulation and verification at Volvo Car R&D group**, Peter Charliemo, Gustav Tenfält/Volvo Cars
- **IPS Cable simulation roadmap**, Oliver Hermanns/fleXstructures
- **Demonstration of IPS Cable Simulation 3.3**

### Late Afternoon/Evening

- Museum tour and Conference dinner

### Morning

- **Integration of cable dynamics and fatigue analysis into IPS Cable Simulation**, Fabio Schneider/Fraunhofer ITWM
- **Dynamic simulation of high voltage cable connections with multiple mechanical excitations – results and challenges within the development process of electrified vehicles**, Felix Bilger/BMW
- **Improving humans' work thanks to smart IPS software and practical TechViz VR technology**, Benjamin Bayart/TechViz
- **Implementation of IPS-IMMA at Volvo Cars**, Dan Lämkuil/Volvo Cars
- **The Fraunhofer strategic research project EMMA-CC – ergo-dynamic human modelling**, Joachim Linn/Fraunhofer ITWM

### Afternoon

- **Ergonomic evaluation of cable assembly in IPS**, Lars Hanson/SCANIA
- **Design of experiments for simulation with IPS in automotive engineering**, Reinhard Wolf, Bert Hartfiel/VW
- **Piecewise linear elastic behavior of bowden cables**, Vanessa Dörlich/Fraunhofer ITWM
- **Lua-Script supported cable routing between movable parts with IPS Cable**, Klaus Kaufmann/Delphi
- **The IPS cable simulation innovation framework – related products and technologies**, Johan Carlson/FCC, Klaus Dreßler/Fraunhofer ITWM
- Wrap up/final plenum

There will be a fully operational MeSOMICS-demo machine exposed during the conference, which can be used to parameterize participants' specimen.