



CABLE SIMULATION CONFERENCE 2023 KAISERSLAUTERN

September 13th - 14th, 2023, Starting 9 am
Fruchthalle Kaiserslautern, Germany

Hosted by flexstructures GmbH, IPS AB, Fraunhofer-Chalmers Centre FCC, and Fraunhofer ITWM

IPS Cable Simulation has become the leading tool in its field providing functionality for the entire process from concept and design through assembly and production planning to after-sales.

With the 5th IPS Cable Simulation Conference 2023, we will revive the tradition to meet in person and strengthen the international network of experts applying the cable simulation technology. Many users of IPS Cable Simulation from all over the world have already seized the opportunity to join our conferences to learn more about the making of the software, new features and to share their own experiences with users from different domains and different countries.

GENERAL INFORMATION:

Conference Language: English

Conference Fee: €800 plus VAT. Education sessions on September 12th, 2023, are included. Speakers get free admission.

Accommodation:

Please visit our homepage to find hotel recommendations in Kaiserslautern.

Exhibition Booths:

Free space for exhibition booths is still available.

Registration:

To register for the event, [click here](#).

Further Information:

Find all recent updates at [our homepage](#) or contact us via ips.conference@flexstructures.de.

EDUCATION SESSIONS:

Beginner Session:

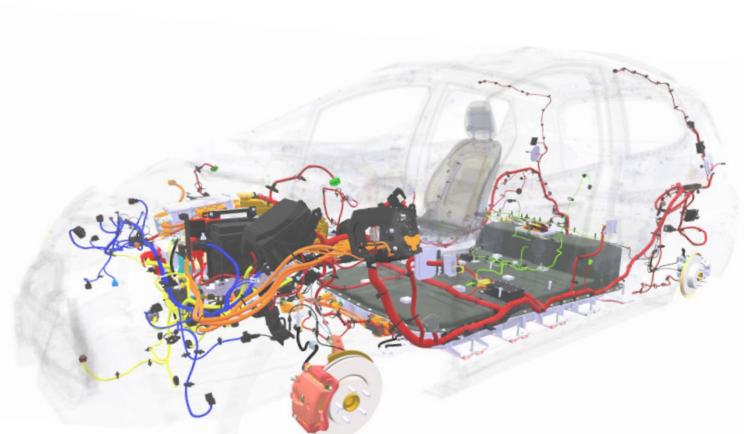
- / Introduction to IPS
- / Hands-on training based on an application example
- / Supervised model construction
- / Licences will be provided by flexstructures

Attend the Beginner Session if you do not have any or only little experience with the IPS Cable Simulation software. You will get first insights and basic knowledge during this hands-on training on your own device and with licenses provided by flexstructures. The trainers will demonstrate how to construct models in IPS so you can quickly start working with the software.

Advanced Session:

- / Latest insights into IPS
- / Hands-On training based on a complex application example
- / Answering customer questions
- / Licences will be provided by flexstructures

During the Advanced Session, you will experience a Live-Demo based on a complex application example. Even frequent IPS users can discover tips and tricks during this training. Attendees are welcome to send questions or inform us about specific topics they would like to learn more about in advance.



Geometry model by courtesy of Caresoft Global

PRELIMINARY AGENDA:

Tuesday, September 12th, 2023

2:00 pm - 5:00 pm

Education Session
Beginner Session

Education Session
Advanced Session

Wednesday, September 13th, 2023

Morning

Registration: 8:00 am

Welcome and Opening: 9:00 am

IPS Cable Simulation – Life saver for off-road vehicles
Ulf Hoepfner and Mahesh Agarkar, John Deere

High voltage challenges in dynamic loop
Antoine Porot, Leoni Wiring Systems

IPS in Japan
Shunsuke Ishida, SCSK Cooperation

Customer cases: New design and optimization of hydraulic hose installations using IPS
Frederik Karlsson, HydraSpecma

Absolute lifetime predictions with S-N-curves for cables
Fabio Schneider-Jung, Fraunhofer ITWM
Co-Author Lukas Faksa, Gebauer & Griller Kabelwerke

Afternoon

Integration of IPS Cable Simulation into the product development process
Matthias Pasquon, HUBER+SUHNER

Optimizing the usage of IPS across different departments and countries
Thomas Eschweiler, Siemens Mobility

BordNetzSim3D: Novel simulation-based process for 3D mechanical wiring system design
Michael Koch, fleXstructures / Joachim Linn, Fraunhofer ITWM
Project partners: Volkswagen and Coroplast

Interoperability and automation with IPS – Highlights of IPS fleX Hub
fleXstructures

Outview to IPS component library
fleXstructures

Deep dive sessions on IPS related topics

Late Afternoon/Evening

Conference dinner & After-work event

Thursday, September 14th, 2023

Morning

Grasp analysis for the automated manipulation of pre-assembled cables
Daniel Gebauer, Technische Universität München

Massive conductor-calculation (with IPS) as example for FFC-applications in clock-springs
Amanda Jarosch, Nexans autoelectric

Mercedes-Benz speeding up at going digital: An integrated approach using IPS for E/E-hardware-integration at different development phases
Jürgen Stober, Mercedes-Benz

IPS Cable Simulation for XR applications through an interface with commercial engines
René Reinhard, Fraunhofer ITWM

Roadmap & Outlook
Oliver Hermanns, fleXstructures / Anton Berce, Industrial Path Solutions Sweden

Afternoon

IPS Cable Simulation – Advanced Vehicle Crash Simulation Postprocessing
Paolo Perona, fleXstructures / Fabio Schneider-Jung, Fraunhofer ITWM

Simulation for drag chain and harness of power sliding door
Li Wentao, PAN-I

Telescopic handler boom flexible hydraulic hoses routing analysis and optimization using IPS Cable
Filippo Cassibba, CNH Industrial

Using IPS for Ford early packaging proposals
John Orischak, Ford

Wrap up & final plenum



in cooperation with:

