



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.

Accommodation:

Please visit our homepage to find hotel recommendations in Kaiserslautern.

Exhibition Booths:

Please contact us to discuss details.

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.

OPTIONAL: EDUCATION SESSIONS ON SEPTEMBER 12TH, 2 PM - 5 PM

Both Education Sessions are hands-on trainings on your own device for which fleXstructures will provide licenses.

Beginner Session:

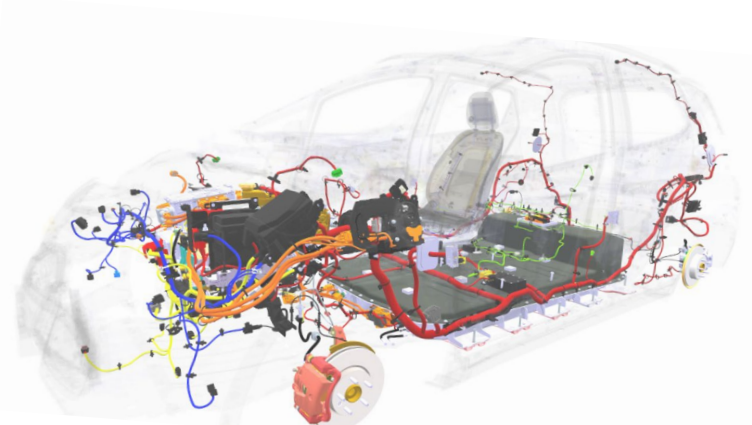
- / Get to know IPS
- / Simulation setup
- / Process overview
- / Analysis

Attend the Beginner Session if you do not have any or only little experience with the IPS Cable Simulation software. The trainers will demonstrate how to construct models in IPS so you can quickly start working with the software.

Advanced Session:

- / Defining contact handling groups
- / Getting the most out of tolerance envelopes
- / Using the bundle properties estimator
- / Simulating with subsegments

During the Advanced Session you will practice IPS applications based on a complex use case. Even frequent IPS users can discover tips and tricks during this training. Attendees are welcome to send us questions or specific topics they would like to learn more about in advance.



Geometry model by courtesy of Caresoft Global

AGENDA:

Wednesday, September 13th, 2023

Registration: 8:00 am
Welcome and Opening: 9:00 am
IPS Cable Simulation – Life saver for off-road vehicles <i>Ulf Hoepfner, John Deere</i>
High voltage challenges in dynamic loop <i>Antoine Porot, Leoni Wiring Systems</i>
Networking and Coffee Break: 10:20 am
The success stories in the major IPS industries in Japan <i>Shunsuke Ishida, SCSK Corporation</i>
Customer cases: New design and optimization of hydraulic hose installations using IPS <i>Fredrik Karlsson, HydraSpecma</i>
Absolute lifetime predictions with S-N-curves for cables <i>Fabio Schneider-Jung, Fraunhofer ITWM</i> Co-Author <i>Lukas Faksa, Gebauer & Griller Kabelwerke</i>
Lunch Break: 12:20 pm
Simulation for drag chain and harness of power sliding door <i>Li Wentao, PAN-I</i>
Optimizing the usage of IPS across different departments and countries <i>Thomas Eschweiler, Siemens Mobility</i>
BordNetzSim3D: Novel simulation-based process for 3D mechanical wiring system design <i>Michael Koch, fleXstructures / Joachim Linn, Fraunhofer ITWM</i> Project partners: <i>Volkswagen and Coroplast</i>
Networking and Coffee Break: 3:00 pm
Interoperability and automation with IPS – Highlights of IPS fleX Hub <i>Daniel Dengel, fleXstructures</i>
Outview to IPS component library <i>fleXstructures</i>
Deep dive sessions on IPS related topics
Conference Dinner & Evening Event: 6:30 pm

Thursday, September 14th, 2023

Welcome and Coffee: 8:30 am
First presentation: 9:00 am
Grasp analysis for the automated manipulation of pre-assembled cables <i>Daniel Gebauer, Technische Universität München</i>
Massive conductor-calculation (with IPS) as example for FFC-applications in clock-springs <i>Amanda Jarosch, Nexans autoelectric</i>
Highlights of current research projects in the IPS product family <i>Tobias Karlsson and Johan Nyström, Fraunhofer Chalmers Centre</i>
Networking and Coffee Break: 10:30 am
IPS Cable Simulation for XR applications through an interface with commercial engines <i>René Reinhard, Fraunhofer ITWM</i> <i>Thomas Hermansson / Johan Nyström, Fraunhofer Chalmers Center</i>
IPS Cable Simulation and advantages of XR integration for heavy commercial vehicle product development <i>Antriksh Abhimanyu Shinde / D Surya Srinivas Raju, Volvo Trucks</i> <i>John Lewkowicz, Sandalwood</i>
Roadmap & Outlook <i>Oliver Hermanns, fleXstructures / Anton Berce, Industrial Path Solutions Sweden</i>
Lunch Break: 12:30 pm
IPS Cable Simulation – Advanced Vehicle Crash Simulation Postprocessing <i>Paolo Perona, fleXstructures / Fabio Schneider-Jung, Fraunhofer ITWM</i>
Efficient assessment of noise transmission along cables and hoses <i>Fabio Schneider-Jung, ITWM / Co-Author Stephan Sedlmair, BMW Group</i>
Telescopic handler boom flexible hydraulic hoses routing analysis and optimization using IPS Cable <i>Filippo Cassibba, CNH Industrial</i>
Wrap up & final plenum
End of Conference: 4:00 pm



in cooperation with:

