



Ansys

WOST

CONFERENCE

Optimize and Orchestrate your  
Virtual Product Development

/ AGENDA

18<sup>th</sup> Weimar  
Optimization and  
Stochastic Days 2021

Virtual Conference // June 17 – 18, 2021

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## THURSDAY, JUNE 17

### **/ PLENARY SESSION 1**

*Simulation Process Automation and Orchestration*

**10:30 am – 10:35 am**

(All time = Central European Time (CET))

#### **Introduction**

Johannes Will (Ansys)

**10:35 am – 11:10 am (CET)**

**Keynote | Practical Application of a Simulation Process Management System for Multi-Objective Optimization of Power Electronics**

Daniel Krätschmer, Frederike Lörke (Robert Bosch GmbH)

**11:10 am – 11:35 am (CET)**

**Publish Engineering Workflows as Webapps for Everyone**

Daniel Soukup (CADFEM GmbH)

**11:35 am – 12:00 pm (CET)**

**The Application and Benefits of Molding Process Optimization at Kärcher using Moldex3D**

Florian Seibold (Alfred Kärcher SE & Co KG)

### **/ PLENARY SESSION 2**

*Platform R&D Update*

**12:50 pm – 1:15 pm (CET)**

**Ansys Platform Strategy**

Sanjay Angadi (Ansys)

**1:15 pm – 1:40 pm (CET)**

**Development of optiSLang Product Line**

Johannes Will (Ansys)

**1:40 pm – 2:05 pm (CET)**

**Recent method developments optiSLang product line**

Thomas Most (Ansys)

**2:05 pm – 2:30 pm (CET)**

**Recent Developments for Field metamodelling with SoS**

Sebastian Wolff (Ansys)

**2:30 pm – 3:00 pm (CET)**

Roundtable with Ansys Platform Development team

### **/ PLENARY SESSION 3**

*Metamodeling*

**3:00 pm – 3:25 pm (CET)**

**A Four-dimensional Reduced Order Model Approach for Life Prediction of Hot Operation Components**

Aditya Dubey (Siemens India)

**3:25 pm – 3:50 pm (CET)**

**Metamodels from thermo-mechanical Simulation in Microelectronics**

Speaker to be announced soon

**3:50 pm – 4:15 pm (CET)**

**Reduced Order Modeling with Mechanical and optiSLang**

Johannes Einzinger (Ansys)

**4:15 pm – 4:40 pm (CET)**

**Modeling of a window lift drive and a control edge with Neural Concept Shape**

Roland Schirmacher (Robert Bosch GmbH)

### **/ PLENARY SESSION 4**

*Design Optimization I*

**5:00 pm – 5:25 pm (CET)**

**Multidisciplinary Optimization of Check Valve**

Carsten Molhede Thomson (Danfoss A/S)

**5:25 pm – 5:50 pm (CET)**

**A novel global optimization approach using HFSS analytical derivatives**

Peter Krenz (Ansys)

**5:50 pm – 6:15 pm (CET)**

**Optimization of Inductive Magnetics on Silicon Devices with optiSLang**

Dragan Dinulovic (Würth Elektronik eiSos GmbH & Co. KG)

**6:15 pm – 6:40 pm (CET)**

**E-machine Optimization considering Electric Drive Unit (EDU) System Requirements**

Jonathan Godbehere, Nicolas Riviere (MDL Limited)

## FRIDAY, JUNE 18

### **/ SESSION 5A**

*Design Optimization II*

**10:20 am – 10:45 am (CET)**

**Virtual product optimization for laser material processing systems**

Dominik Kühn (LightTrans)

**10:45 am – 11:10 am (CET)**

**Design understanding with DOE as part of the virtual optics development process**

Sabrina Niemeyer (Ansys)

**11:10 am – 11:35 am (CET)**

**How Ansys SPEOS and Ansys optiSLang Solve Complex HUD Design**

Stefan Thöne (Ansys)

**11:35 am – 12:00 pm (CET)**

**Title to be announced soon**

Speaker to be announced soon

### **/ SESSION 5B**

*Reliability Analysis & Calibration*

**10:20 am – 10:45 am (CET)**

**PROBABilistic computational intelLIGENCE using STOCHOS inside optiSLang**

Can Bogoclu (Probaligence GmbH)

**10:45 am – 11:10 am (CET)**

**Reliability Analysis of a Diplexer with Improved Quality for the Prediction of Failure Probabilities**

Philippe Leduc (STMicroelectronics)

**11:10 am – 11:35 am (CET)**

**On the simplification of thermomechanical fatigue testing**

Macus Lehmann (Ariane Group)

**11:35 am – 12:00 pm (CET)**

**Scenario-based testing in simulation: Sensitivity analysis of traffic modeling and its influence on the exposed failure regions**

Johannes Plaum (Daimler Truck AG)

### **/ WORKSHOPS**

**1:00 pm – 2:30 pm (CET)**

*(The individual workshops will take place in parallel.)*

**Democratization of simulation workflows and processes**

David Schneider (Ansys)

**Robust Design Optimization of electric motors**

Roland Niemeier & Nicolas Riviere (Motor Design Limited)

**Optimization in optics & photonics**

Tino Dannenberg, Sabrina Niemeyer (Ansys)

**Optimization of antenna design**

Ralf Lampert & Peter Krenz (Ansys)

**Model calibration and Robust Design Optimization for Additive Manufacturing**

Roger Schlegel & Keno Kruse (CADFEM GmbH)

### **/ PLENARY SESSION 6**

*Design Optimization III*

**3:00 pm – 3:25 pm (CET)**

**Electro-optic Design Optimization and Analysis from Micrometers to Kilometers**

Peter Krenz (Ansys)

**3:25 pm – 3:50 pm (CET)**

**Optimization of idealized, parametrized simulation models for modal analysis using optimization algorithms and validating the optimum on a reference model**

Shashank Hebbar (Siemens AG)

**3:50 pm – 4:15 pm (CET)**

**Topology Optimization Result Interpretation using ANSYS optiSLang CATIA-Integration**

Jessica Tamasi (Rheinmetall)

**4:15 pm – 4:45 pm (CET)**

**Parametric geometry optimization of solids processing equipments**

Rakulan Sivanapillai (Bayer AG)

**4:45 pm – 5:10 pm (CET)**

**Roundtable with Platform Field Engineering and Sales**