

	Room Hamburg I	Room Hamburg II	Room Gartensaal	Room Rotterdam	Room St. Petersburg	Room Florenz
9.00 AM	Welcoming and Introduction Dr. Andreas Uhlig, ESI ITI					
9.40 AM	Keynote I: Attribute design in handling and ride through simulation and testing Prof. Günther Prokop, TU Dresden					
10.10 AM	Keynote II: Embracing the Immersive Virtual Engineering (IVE) disruptive challenges of «Industry 4.0» and the Outcome economy, Dr. Marco Gremaud, ESI Group					
Break						
<b>Session I</b>	<b>Energy Technology</b>	<b>Industrial Machinery</b>	<b>Mining and Mobile Machinery</b>	<b>Automotive Technology</b>	<b>Tutorial</b>	<b>Railways</b>
11.00 AM	Improving Energy Efficiency using Transient Refrigeration Cycles, Dr. Michael Löffler, Engineering Office Löffler	Process simulation of the paper machines Bettina Grashof, Voith Paper	Simulation of the Hydraulic Roll Relief System for TAKRAF Roll Crushers Dr. Marko Schmidt, Takraf	Workshop: Powertrain Modeling Tom Wiedemann, ESI ITI	Tutorial: tba	A simulative analysis of vibrations among trains due to fluctuating latencies of commands; David Meinel, FAPS
11.30 AM	Holistic District Heating Grid Design with SimulationX / Green City Torsten Schwan, EASD	Creation of Mechatronic Simulation Templates in SimulationX for Product Development; Stefan Haus, Karl Mayer Textilmaschinenfabrik	System simulation of belt conveyors and their application Ulf Richter, ABB	Content: Creating basic elements in the TypeDesigner as well as modeling and analyzing complex powertrains in SimulationX.	Only 20 seats available!	A new model for the calculation of the wheel-rail-contact in SimulationX Dr. André Theiler, IFB; Karsten Todtermuschke, ESI ITI
12.00 AM	Practical Experiences with Smart Homes Modelling and Simulation Wessam El-Baz, TU München	Fast Servo Hydraulic Actuator: Simulation vs. Testing Dr. Mihai Vulcan, Hatebur	Energy saving potentials in heavy machinery through open circuit displacement control Roman Ivantysyn, TU Dresden IFD	Only 20 seats available!		
Break						
<b>Session II</b>	<b>Automotive Technology</b>	<b>Science and Education</b>	<b>Mining and Mobile Machinery</b>	<b>Industrial Machinery</b>	<b>Energy Technology</b>	<b>ESI Group</b>
2.00 PM	HINO's Commercial Vehicle Air Brake System Development Using SimulationX Ryoma Takeda, HINO	Physiology in fracture to optimize a cooling and compression bandage Annekathrin Päßler, TU Dresden (IFTE)	SimulationX Machine Models Enhancing Machine Controls Development Dr. Thomas Neubert, Hydrive Engineering	Simulation Task – From Paper Sketch to Layout Salim Chaker, ESI ITI	Hands-on Workshop: Simulating coupled electricity and heat grids for living quarters Torsten Schwan, EASD	Visual Machine Learning for Simulation Data Mining Suzana Djurcilov, ESI Group
2.30 PM	Implementation of a 3D rotating driveshaft in a 1D drivetrain simulation using the Krylov subspace method and the FE-Import module Maximilian Zinner, P+Z	System, process development and simulation of a regulated test bench for hoists Andreas Max, HS Magdeburg-Stendal	Loading of hoist gearings due to fast running motors and additional brakes Prof. Stefan Vöth, TH Georg Agricola	Content: Modeling a multi-body system of a two-wheeler with appropriately dimensioned drives.	Only 20 seats available!	Only 20 seats available!
3.00 PM	Simulating of trap case between car glass and sealing with SimulationX and ANSYS Thomas Sauerheimer, Brose	Simulation of thermal behavior in wet clutches Andreas Trittel-Schabacker, TU Kassel	DEM-4-X - A new model library for integrating discrete element method (DEM) into SimulationX Christian Richter, TU Dresden	Only 20 seats available!		
Break						
<b>Session III</b>	<b>Plenum</b>					
4.00 PM	Ship Energy System Simulation and Optimization Jörg Lampe, DNV GL					
4.30 PM	Occupant Behavior of a Plus Energy Building Regarding Monitoring and Standard Values, Henryk Haufe, HTWK Leipzig					
5.00 PM	SimulationX and the sound design of rear mufflers of motor vehicles Tobias Ott, SAE Stuttgart					
6.00 PM	Departure to the Gala Diner					

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9.00 AM	New in SimulationX 3.8 Thomas Hofmann, Thomas Neidhold, ESI ITI				
9.40 AM	Keynote I: ESI-Portfolio – Virtual Product Engineering Software and Services Andreas Renner, ESI Group				
10.10 AM	Keynote II: Automated Simulation with Parameter Variation on Large Diesel Engines Matthias Taubert, MAN				
Break					
<b>Session I</b>	<b>Energy Technology</b>	<b>Interfaces and Integration</b>	<b>Science and Education</b>	<b>Tutorial</b>	<b>Tutorial</b>
11.00 AM	Dynamic Behavior of Steam Power Processes Jan Braune, TU Hamburg Harburg Jan Scheffler, TU Hamburg Harburg	Consistent Engineering by integrating SimulationX with SysML and PLM Michael Pfenning, XPLM; Bastian Binder, ESI ITI; Benedict Wohlers, Fraunhofer IEM;	SimulationX – the Challenge of modern Academic Lecturing on Applied Science Universities with focus to the „New Media“-Students Generation Prof. Winfried Egger, FH Kärnten	Tips and Tricks for System Analyses Karsten Todtermuschke, ESI ITI  Content: Proper use of the analysis tools in SimulationX and result interpretation.	Hands-on Workshop: Seeing is believing – Visualize and communicate your results! Alex Magdanz, ESI ITI  Content: Proper use of Modelica annotations for animated element icons. Tips for using the 3D view, control elements, displays and diagrams.
11.30 AM	Reproducing battery operating behavior – from measurements to battery simulation Dominik Dvorak, Thomas Bäuml, AIT	Co-Simulation requirements in the building sector based on the FMI standard Kristin Majetta, Fraunhofer IIS	From SimulationX beginner to expert: E-Learning in science and education Thomas Hofmann, ESI ITI		
12.00 AM	Suitability of a buoy to measure wave heights on inland lakes Gerd Fischer, BTU Cottbus	Simulation of thermal systems as basis for variance-based sensitivity analysis Joachim Regel, TU Chemnitz		Only 20 seats available!	Only 20 seats available!
Break					
<b>Session II</b>	<b>Energy Technology</b>	<b>Industrial Machinery</b>	<b>ESI Group</b>	<b>Tutorial</b>	<b>Tutorial</b>
2.00 PM	Power Plant Simulation with SimulationX using the Modelica Library ClaRa Dr. Friedrich Gottelt, XRG; Dr. Lasse Nielsen, TLK; Alex Magdanz, ESI ITI	Embedded simulation via FMI for wear and tear processes Julia Gundermann, ESI ITI	Virtual Reality Demonstration with IC.IDO Michael Kerausch, ESI Group	Modeling techniques for advanced users Sebastian Grützner, ESI ITI  Content: Learning and applying special modeling techniques from Modelica® in SimulationX.	Workshop: Debugging Andreas Abel, ESI ITI  Content: Using the tracing feature for trouble shooting. Applying "Golden Rules" to avoid issues in advance. Introduction of typical problem classes. Introduction to simulation cycles in SimulationX.
2.30 PM	Additional loads in the mechanical drive train of wind turbines caused by electrical grid deviations Werner Horn, Katrin Peter, SKF	Generic feed axis library for machine tools Christian Friedrich, TU Dresden			
3.00 PM	Live Presentation of an intelligent 3D Module Configurator and Model Evaluation System of Power Train System in the Field Power Generation Thomas Günther, FAB	How to Integrate Virtual Commissioning and Variant Handling Johannes Möck, Uni Reutlingen		Only 20 seats available!	Only 20 seats available!
Break					
<b>Session III</b>	<b>Closing Event</b>				
4.00 PM	Best Paper Award Ceremony				