

---

# **PLECS CONFERENCE 2024**

## **Thermal Modeling and Simulation**

**March 12 • 8:30 to  
March 13 • 16:30**

**Technopark Zurich  
Technoparkstrasse 1 • 8005 Zurich • Switzerland  
Phone +41 44 533 51 00 • Email [info@plexim.com](mailto:info@plexim.com)**

# Conference Agenda

## Monday, March 11, 2024

18:00	Two-Hour Reception at the Venue
-------	---------------------------------

## Tuesday, March 12, 2024 – Conference Day 1

8:30	Registration, Welcome Coffee		
9:00	Keynote Speech	Dr. Jost Allmeling	Plexim
9:15	Data Acquisition and Thermal Simulation of SiC Devices Using PLECS	Min Luo	BASiC Semiconductor
9:45	Fast and Reliable Inverter Temperature Estimation Using PLECS for Automotive E-Drives Subjected to Driving Cycles	Dr. Radu Bojoi	Politecnico di Torino
10:15	Break		
11:00	Integration of Soft-Switching Losses in PLECS Models	Dr. Didier Balocco	Onsemi
11:30	A Fresh Perspective on Foster and Cauer – Making Better Use of Thermal Models	Dr. Alexander Weyman	Plexim
12:00	Lunch		
13:30	Smart Concepts for Highly Heated Simulations	Rob Spence	SpenceWave Dynamics
14:00	Simplifying Power Electronics Design and Development with the 30 kW Vienna PFC PLECS Model	Tomas Krecek	Microchip Technology
14:30	Thermal of Power Electronics - From Fundamental Modeling to Coupling Effects	Dr. Yi Zhang	Aalborg University
15:00	Break		
16:00	Automated Generation of PLECS Component Models Using Existing SPICE Descriptions	Pablo Elosegui Garcia	Infineon
16:30	Double Pulse Test Bench for Application-Oriented, Highly Automated Parameter Extraction and Model Generation of Power Semiconductors	Christian Lottis	Hochschule Bonn-Rhein-Sieg
17:00	Design-For-Reliability of Power Semiconductor Devices - A Practical Approach for Evaluating Thermally-Induced Wear-Out Failures	Dr. Ionut Vernica	Plexim
17:30	Break, Appetizers		
19:00	Dinner		

# Conference Agenda

<b>Wednesday, March 13, 2024 – Conference Day 2</b>			
8:00	Welcome Coffee		
8:30	Web Application With Extended XML Datasets for Higher Simulations Flexibility	Felix Mathis	Hitachi Energy
9:00	Thermal Modeling and Validation of Multiphase Inverter With PLECS RT Box	Dr. Achim Endruschat & Johannes Spies	Vitesco
9:30	Modeling of Semiconductor Switching Losses in Soft-Switching and Incomplete Soft-Switching Regions	Mike Zäch	AAU Energy
10:00	Break		
10:30	From Simulation to Commissioning: Development of Multilevel Converters With PLECS	Simon Quergfelder	Fraunhofer IISB
11:00	Modelling and Usage of Vincotech Power Modules in PLECS Environment Using a Customized Library With Thermal Description Files Generated by VINcoSIM	Dr. Gábor Manhertz	Vincotech
11:30	Machine-Readable Datasheets and Automatic Device Modeling	Philipp Kappes	PE-Systems
12:00	Lunch		
13:30	Calculation of the Junction Temperature of Power Electronic Modules Including Thermal Coupling	Christopher Schmidt	Semikron Danfoss
14:00	Spatially Distributed Thermal Modeling for Reliable Power Electronic Converters	Pascal Schirmer	BMW
14:30	Power Electronics Package Modelling for Advanced Thermal Simulations	Dr. Christian Mentin	Silicon Austria Labs
15:00	Break		
15:30	Automated Creation of Thermal Description XML File Using Data From LTspice Simulations	Dr. Markus Scherbaum	Hilti
16:00	PLECS: Future Prospects	Dr. Wolfgang Hammer	Plexim
16:30	End of Conference		

# Organisational Information

Registration Deadline	February 29, 2024	
Conference Language	English	
Type of Event	On-site only, limited number of participants	There will be no virtual replacement for this event.
Venue Address	Technopark Zurich Auditorium, Ground Floor Technoparkstrasse 1 8005 Zurich Switzerland	
Travel and Directions	The venue and all hotels are well connected by public transport. Take the train S16 from the airport to Zürich Hardbrücke (every 30 minutes). <a href="#">The one-way fare is CHF 6.80.</a> From Hardbrücke it takes a 5-10 minutes' walk to the venue and the hotels. <a href="#">Detailed information</a>	Limited parking space is available at Parkhaus Technopark, Parkhaus Pfingstweid, Parkhaus Zürich P-West or Puls 5 Parkgarage. Parking fees at Technopark are approximately CHF 25.00 per day. A taxi ride from the airport to the venue costs approximately CHF 60.00.
Recommendation for Accommodation	<a href="#">Ibis Zurich City West</a> <a href="#">Novotel Zurich City-West</a> <a href="#">25Hours Hotel Zurich West</a> <a href="#">Renaissance Zurich Tower Hotel</a>	All hotels are in walking distance (2-10 minutes) to the venue.
Organiser	Plexim GmbH Technoparkstrasse 1 8005 Zurich Switzerland	Phone +41 44 533 51 00 Email <a href="mailto:info@plexim.com">info@plexim.com</a>
Registration Fee	CHF 700.00 (incl. VAT) or EUR 700.00 (incl. VAT)	Upon registration, an invoice for wire transfer will be sent via email. Payment by credit card is not possible.
Registration Includes	Participation, lunch, snacks and beverages on both days, dinner on March 12	
Cancellation Policy	Full amount will be refunded if cancelled by February 21, 2024. After this date or no-show, the participation fee is non-refundable.	If the organizer has to cancel the event, the registration fee will be refunded in full.
General Data Protection Regulation	We kindly point out that we must store your personal data in our database in order to process your registration. <a href="#">Plexim's privacy policy</a>	Visitors acknowledge that they may be included in photos and videos taken during the event, and agree that these may be used without financial compensation.
Latest Information	Updated information about the PLECS Conference 2024 can be found on our <a href="#">website</a> .	
This Document Has Last Been Updated on	01.03.24	