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

8:30	Registration, Welcome Coffee		
9:00	Keynote Speech	Dr. Jost Allmeling	Plexim
9:30	Data Acquisition and Thermal Simulation of SiC Devices Using PLECS	Xueqiang Zhang & Min Luo	BASiC Semiconductor
10:00	Fast and Reliable Inverter Temperature Estimation Using PLECS for Automotive E-Drives Subjected to Driving Cycles	Dr. Radu Bojoi	Politecnico di Torino
10:30	Break		
11:30	Integration of Soft-Switching Losses in PLECS Models	Dr. Didier Balocco	Onsemi
12:00	Automated Generation of PLECS Component Models Using Existing SPICE Descriptions	Pablo Elosegui Garcia	Infineon
12:30	Lunch		
13:30	Web Application With Extended XML Datasets for Higher Simulations Flexibility	Felix Mathis	Hitachi Energy
14:00	To Be Announced (TBA)	TBA	Wolfspeed
14:30	How Thermal Cross-Coupling Effects Shape Power Electronic Thermal Behaviors - From a Power Module to Converters	Dr. Yi Zhang	Aalborg University
15:00	Break		
16:00	Application Optimization and Driving Aspects of Power Semiconductors Based on System Simulation	Thomas Kimmer	Nexperia
16:30	Double Pulse Test Bench for Application-Oriented, Highly Automated Parameter Extraction and Model Generation of Power Semiconductors	Prof. Dr. Marco Jung	Fraunhofer IEE & Hochschule BRS
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	Simplifying Power Electronics Design and Development with the 30 kW Vienna PFC PLECS Model	Ehab Tarmoom	Microchip Technology
9:00	Thermal Modeling and Validation of Multiphase Inverter Using PLECS RT Box	Johannes Spies & Achim Endruschat	Vitesco
9:30	To Be Announced (TBA)	TBA	Mitsubishi Electric
10:00	Break		
11:00	Modeling of Semiconductor Switching Losses in Soft-Switching and Incomplete Soft-Switching Regions	Mike Zäch	AAU Energy
11:30	To Be Announced (TBA)	Dr. Gábor Manhertz	Vincotech
12:00	Machine-Readable Datasheets and Automatic Device Modeling	Philipp Kappes	PE-Systems
12:30	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 40.00 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>
Latest Information	Updated information about the PLECS Conference 2024 can be found on our <a href="#">website</a> .	
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