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# PLECS CONFERENCE 2022

Real-Time Simulation of Power Electronics

September 20 • 8:30 to  
September 21 • 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, September 19, 2022

18:00	Reception
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## Tuesday, September 20, 2022 – Conference Day 1

8:30	Registration, Welcome Coffee		
9:00	Model Continuity: From Offline Simulation to Real-Time Testing	Dr. Jost Allmeling	Plexim
9:30	Rapid Control Prototyping for High Speed Traction Drive with the RT Box CE as Real-Time Simulator	Dr.-Ing. Roberto Aceiton	Alstom
10:00	PLECS & RT Box Integration for Manual and Automated Elevator System Testing Environment	Charlie Bourigault	Schindler Elevators
10:30	Exhibition, Coffee Break		
11:00	Highly Configurable Real-Time HIL Simulator for Power Electronics in Rail and E-Mobility	Erich Scheiben	ABB
11:30	Simulation and Experimental Verification of an Active Rectifier MMC System (6 Arms, 12 Modules) With PLECS Blockset	Simon Fuchs	ETH Zürich
12:00	Utilising RT Boxes To Support the Development of Medium Voltage Modular Multilevel Converters	Prof. Dr. Drazen Dujic	EPFL
12:30	Lunch		
13:30	Power Hardware-in-the-Loop: A Paradigm Shift	Christian Nagl	EGSTON Power Electronics
14:00	From Simulation to Real Power, a Seamless Transition?	Dr. Simon Delalay	Imperix
14:30	RT Box as a Complex Top Level RT Controller by using the SFP Connector for Multiple Inverter Control	Johannes Soldan	GvA Leistungselektronik
15:00	Exhibition, Coffee Break		
16:00	A Novel Converter Topology for Active Harmonic Filters	Prof. Dr. Marek Galek	Hochschule München
16:30	Motor-Inverter Development with Rapid Control Prototyping (RCP)	Michael Schueller	Ostschweizer Fachhochschule
17:00	To Be Announced (TBA)	TBA	TBA
17:30	Exhibition, Appetizers		
19:00	Dinner		

# Conference Agenda

## Wednesday, September 21, 2022 – Conference Day 2

8:00	Welcome Coffee		
8:30	Power Converters Control Development with RT Box and STM32F Control Platform: From Theory to Practice	Prof. Dr. Petar J. Grbović	University of Innsbruck
9:00	Integration of PLECS Circuitual Models into the Open-Source Design Suite syreDrive	Prof. Dr. Gianmario Pellegrino	Politecnico di Torino
9:30	Perspectives with RT Box for Rapid Prototyping in Industrial R&D Labs: Case Examples	Dr. Thiwanka Wijekoon	Huawei
10:00	Exhibition, Coffee Break		
11:00	Development of a 10kW AC/DC Converter using RCP and HIL	Lukas Prenner & Matthias Wukovits	PULS Vario
11:30	Motor Controller Test using Emulated Motor and Load Chain	Dr. Laszlo Mathe	Bosch
12:00	Development of a Protection Unit Against an Electric Shock Caused by a Y-Capacitance	Urs Böhme	Mercedes-Benz
12:30	Lunch		
13:30	New Concepts in Teaching Power Electronic Control Design (Christopher Ranisch, Christian Jakob, Christian Weiner)	Christopher Ranisch	Hochschule Darmstadt
14:00	Design and Commissioning of Three-Phase-Inverters up to 450 kW using PLECS	Simon Quergfelder	Fraunhofer IISB
14:30	Production Code Generation using the PLECS Generic Code Generator	Prof. Michael Hubatka	Ostschweizer Fachhochschule
15:00	Coffee Break		
15:30	PLECS Coder Target Support for NI PXI Controller	Dr. Sisi Zhao	Plexim
16:00	PLECS: Future Prospects	Dr. Wolfgang Hammer	Plexim
16:30	End of Conference		

# Organisational Information

Registration Deadline	August 29, 2022	
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 560.00 (incl. VAT) or EUR 480.00 (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 conference days, dinner on September 20	
Cancellation Policy	Full amount will be refunded if cancelled by August 29, 2022. 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.
COVID-19 and Protection Concept	Due to local regulations a valid COVID certificate might be required. Specific COVID measures may change at any time.	Please visit the <a href="#">website of the Swiss Health Department (BAG)</a> for updates.
General Data Protection Regulation and Disclaimer for Event Photography	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 2022 can be found on our <a href="#">website</a> .	
This Document Has Last Been Updated on	29.06.22	

# PLECS Conference 2022

September 20, 8:30 to September 21, 16:30

## Registration Form

<b>Company Name</b>	<input type="text"/>
<b>Billing Address</b>	<input type="text"/>
<b>Your Order Number</b>	<input type="text"/>
<b>Attendee Name</b>	<input type="radio"/> Mr. <input type="text"/> <input type="radio"/> Ms. <input type="text"/>
<b>Attendee Email &amp; Phone</b>	<input type="text"/> <input type="text"/>
<b>Reception</b> <b>September 19,</b> <b>18:00 – 20:00</b>	<input type="radio"/> Yes <input type="radio"/> No
<b>Dinner</b> <b>September 20,</b> <b>19:00 – 21:00</b>	<input type="radio"/> Yes <input type="radio"/> No

## Register before August 29, 2022

- ▶ Upon receipt of registration confirmation via email you are signed-up for the event. The invoice will be sent via email.
- ▶ The price includes the participation in the conference, as well as the reception on September 19, 18:00 – 20:00 and the dinner on September 20, 19:00 – 21:00.
- ▶ The registration fee is 480.00 Euros or 560.00 Swiss Francs (incl. 7.7% VAT) and is payable by wire transfer.
- ▶ Please note that due to local regulations a valid COVID certificate might be required. Also, specific COVID measures can change at any time without notice.