



*Winds of change,
powering what's next.*

Full Conference schedule

17th Global User Conference

October 27-30th, 2025

Thompson Chicago, by Hyatt

opal-rt.com/RT25



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Global User Conference
October 27-30th, 2025
Thompson Chicago, by Hyatt

27th Training | Workshop

Room : Chicago 7 Ballroom

Welcome Coffee - Networking 8:00-8:30 AM

Morning session

Optimize Blackbox Integration in HYPERSIM
8:30-10:00 AM

Coffee Break 10:00-10:30 AM

Defending Against Cyber-Attacks with HYPERSIM
10:30-12:00 PM

Lunch Break 12:00-01:00 PM

Afternoon session

Advanced Power Electronics Simulation for Energy
01:00-02:30 PM

Coffee Break 02:30-03:00 PM

Advanced Power Electronics Simulation for Transportation
03:00-04:30 PM

Welcome Reception | 06:30-08:30 PM



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Global User Conference
October 27-30th, 2025
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28th Global Conference | Morning

Room : Chicago 7 Ballroom

8:45-9:00 AM	Registration
9:00-9:30 AM	Keynote Speaker : Opening Session Brett Beranek General Manager at OPAL-RT Technologies
9:30-10:00 AM	Keynote Speaker : Software Tool Needs to Support the Energy Transition, Models, Algorithms and Integration Jian Sun Professor of Electrical, Computer and Systems Engineering at Rensselaer Polytechnic Institute
10:00-10:30 AM	Power-Electronics-Enabled Autonomous Power Systems: Hardware-based Case Studies Dr. Qing-Chang Zhong Founder & CEO at SYNDEM
10:30-10:45 AM	Coffee Break - Networking
10:45-11:15 AM	Validating Cloud-Based Detection of False Data Injection Attacks Using OPAL-RT and Edge Devices Sunho Jang Postdoctoral Research Associate at Brookhaven National Laboratory
11:15-11:45 AM	Real-Time Simulation of PV Inverter Systems with Grid Protection and Load Profiling Using OPAL-RT HiL Platform Marcin Szlosek R&D Manager at ABB
11:45-12:15 PM	De-Risking Grid Forming Battery Energy Storage Projects. Grid Code Compliance Testing of a 50 MW BESS Using Hypersim for CHIL-Simulations Andreas Bammes Research Associate at FAU Erlangen-Nürnberg
12:15-01:30 PM	Lunch Break - Networking



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Global User Conference
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28th Global Conference | Afternoon

Room : Chicago 7 Ballroom

1:30-2:00 PM	HIL Model Development for XFC Co-located BESS Charging Sites Incorporating Real-World XFC Load Profiles Sadam Ratrout Consultant at Argonne National Laboratory
2:00-2:30 PM	TBD Nirmal Sharma Test Architect at S&C Electric Company
2:30-3:00 PM	Testing protection functionalities of IntelliRupter fault interrupter with OPAL-RT HiL testbed Jiahao Xie Senior Engineer at S&C Electric Company
3:00-3:30 PM	Enhancing Power System Protection by Leveraging OPAL-RT Systems at Dominion Energy Carlos Velez Electrical Engineer at Dominion Energy
3:30-3:45 PM	Coffee Break - Networking
3:45-4:15 PM	Multilevel Multiport Multiterminal High-Voltage DC (MT-HVDC) Systems Omid Beik Assistant Professor at Michigan State University
4:15-4:45 PM	TBD Lina He Associate Professor - Electrical and Computer Engineering at University of Illinois Chicago
4:45-5:15 PM	TBD Sundari Ramabhotla Assistant Professor at Florida Polytechnic University



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Global User Conference
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29th Global Conference | Morning

Room : Chicago 7 Ballroom

8:45-9:00 AM	Registration
9:00-9:30 AM	Keynote Speaker : TBD Henry Huang Division Director, Energy Systems and Infrastructure Assessment at Argonne National Laboratory
9:30-10:00 AM	Keynote Speaker : Transforming Grid Modernization: Advancing Optimal Dispatch for Resilient and Reliable Grids Zongjie Wang Director, Grid Modernization Initiative, Energy Institute at Colorado State University
10:00-10:30 AM	SPS Software : Powerful, forward-looking Simulink™ simulation platform designed for those who build the future of power Pierre-Francois Allaire Executive Vice-President, Sales & Marketing at OPAL-RT Technologies
10:30-10:45 AM	Coffee Break - Networking
10:45-11:15 AM	High Fidelity Testing and Validation of Energy Storage Controls Ujjwol Tamrakar Senior R&D Engineer at Sandia National Laboratories
11:15-11:45 AM	Development of enabling power converter technologies to accelerate renewable integration Jared Paull Power Electronics PhD Candidate at University of British Columbia Okanagan
11:45-12:15 PM	From Complexity to Cohesion: Developing Multi-Phase Motor Drives through Simulation and Testing Akm Arafat, Ph.D. Principal Engineer at Drive System Design
12:15-1:30 PM	Lunch Break - Networking



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29th Global Conference | Afternoon

Room : Chicago 7 Ballroom

1:30-2:00 PM	Driving Innovation for the futur Martin Bélanger Director of Sales, North America at OPAL-RT Technologies
2:00-2:30 PM	Electrifying Regional Aviation – Integrating Real-Time Simulation into Electric Propulsion Development Dr. Youcef Abdelli Entrepreneur at ZT1 Technology
2:30-3:00 PM	Special Session : Fireside P-HIL chat with Trane Technologies Sushen Kashyap Power Electronics Applications Engineer at Trane Technologies
3:00-3:30 PM	Cyber-Physical Security Testbed at Texas Tech University Manohar Chamana, Ph.D. Technical Director, Assistant Professor and Graduate Advisor at Texas Tech University
3:30-3:45 PM	Coffee Break - Networking
3:45-4:15 PM	Accelerating Reinforcement Learning Training for Power Systems Applications using OPAL-RT Timothy M. Hansen Associate Professor of Electrical and Computer Engineering at Colorado State University
4:15-4:45 PM	Integrated Transmission and Distribution Testbed for Seamless Renewable Energy Penetration Moazzam Nazir Research Scientist at Clemson University
4:45-5:15 PM	2025 Update on IREQ PHIL simulator Olivier Tremblay Researcher, Hydro-Québec's research institute (IREQ)
5:15-5:30 PM	Closing Session - Brett Beranek General Manager at OPAL-RT Technologies



OPAL-RT
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Global User Conference
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30th Argonne National Laboratory Tour

Bus pick-up at Thompson Chicago Hotel
Departure at 8:00 AM - Estimated arrival at 9:00 AM

ANL representative meet-up at the Argonne Information Center
9:00 AM

Travel to ESIA HIL lab in Building 350
9:15 AM

ESIA HIL lab use case demonstration
9:30-10:45 AM

Travel to Smart Grid Plaza
10:45-11:00 AM

Smart Grid Plaza visit
11:00-12:00 PM

Visit concludes back to Thompson Hotel Chicago
Departure at 12:00 PM - Estimated arrival at 1:00 PM



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