28th MORNIN	IG SCHEDULE	ELECTRIFYING THE WORL BEYOND REAL TIME		
Keynote : Electrifying the World Beyond Real-T 08:30 - 09:00 AM Room : Lowther	Time	Jean Bélanger President and CTO Opal-RT Technologies		
Keynote : Pairing Wide Area Control and Real-to Simulation for Zero Carbon Grid Technology 09:00 - 09:30 AM Room : Lowther	time HiL	Douglas Wilson Chief Scientist GE Vernova		
Keynote : Challenges and Opportunities for NESO in ModellingPower Systems under Clean Power 203009:30 - 10:00 AMRoom : Lowther				
Morning Break: "Take a bite at the Expo"	10:00 - 10:30 AM	Room : Platform 5 Café		
Microgrid & DC Grids Room : Lowther	Protection and Control for Power Systems Room : Menteith	Tutorial & Training Room : Ochil		
Using OPAL-RT Simulators for HIL Testing of MicroGrid Solutions - Practical Experience 10:30 - 11:00 AM Oleg Bagleybter Senior Staff Engineering Manager GE Vernova	An Innovative Approach to Hardware in Loop Testing for Controlled Auto-Reclosing of Transmission Lines 10:30 - 11:00 AM Urmil Parikh Principal Engineer Power Systems and Global Program Manager Controlled Switching Hitachi Energy Sweden AB	TUTORIAL Black-start in a highly IBR-penetrated grid 10:30 - 11:30 AM		
Short-Term Control of Heat Pumps Supporting Power Grid Operation in Multi-Energy Systems. 11:00-11:30 AM Daniele Carta Group Leader Energy Systems Engineering Forschungszentrum Jülich GmbH	Use of HiL in Development of Zonal Autonomous Control for Power Systems 11:00-11:30 AM Sean Norris Senior innovation application architect GE Vernova	Douglas Wilson Chief Scientist GE Vernova		
Advanced Energy Solutions New Solution Development Perspectives 11:30 - 12:00 PM Bruce Ikenna Efika Head of Solution Development BP Advanced Energy Solutions	Validation of Substation Automation using Real-time simulator: a Blackstart use case 11:30-12:00 PM Ngoc Bao Lai Principal Controls Engineer Fluence Energy GmbH	TUTORIAL Simplifying MMC Simulation 11:30-12:30 PM Wei Li Team Lead Power Electronics Opal-RT Technologies		
Combined real-world sites, RCP and P-HiL for interoperable GFMs validation in Microgrid 12:00-12:30 PM Ron Brandi Team Leader Fraunhofer IEE	Modelling and Control of Sequence Decomposed Grid-Forming IBRs with CHIL Validation 12:00-12:30 PM Qian Liu PhD Student University of Warwick			
Lunch break with networking and visit of the d	emo & expo 12:30 - 01:30 PM	Room : Platform 5 Café		



28th AFTERNOON SCHEDULE



Power Hardware-in-the-Loop	
Room : Lowther	

OPAL-RT Approach for PHIL and Motor Emulator 01:30-02:00 PM

Timo Roesch Market Development Director Power Electronic Systems OPAL-RT Technologies

Flexible Laboratory Setups for Grid-Forming Control: Advances through RCP and P-HiL 02:00-02:30 PM

Jonas Steffen Group Leader Fraunhofer IEE

On-line Admittance Identification in IBR-Dominated Power Systems via Power Hardware-in-the-Loop 02:30-03:00 PM

Yue Zhu Research Associate Imperial College London

PHIL Instability Prediction Using Frequency Domain Impedance Analysis and Prediction 03:00-03:30 PM

Frédéric Colas Research Engineer L2EP/ENSAM

Afternoon Break: "Tea Time !"

Power Electronics Room : Menteith Tutorial & Training Room : Ochil

Railway traction system controllers 01:30-02:00 PM

Florent Chabrier Drivetrain Simulation Lead SNCF Voyageurs

Parallel Topologies and Accuracy with Parasitics in Real Time 02:00-02:30 PM

Martin Butcher Consulting Engineer GE Power Conversion

Using OPAL-RT Simulators for Rapid Control Prototyping of Finite Control Set-MPC and AI 02:30-03:00 PM

Paul Judge Reader in Power Electronics **Ning Li** PhD Student University of Edinburgh

How to accelerate Power Electronics R&D cycle with PELab and OPAL-RT Real-Time Simulators 03:00-03:30 PM

Mubeen Abbas CEO TechCore

03:30 - 04:00 PM

Room : Platform 5 Café

TRAINING #1

HYPERSIM 01:30-03:30 PM

Vithuran Vilvarajah Team Lead for Support Europe Opal-RT Technologies

28th AFTERNOON SCHEDULE

Advances in Real Time Simulation Technology and Techniques Room:Lowther

Digital Power - Simulation Technologies to Accelerate Grid Evolution 04:00-04:30 PM

Ravinder Venugopal VP, BD and R&D EMEA Opal-RT Technologies

Subject TBD 04:30 - 05:00 PM

First Name Last Name Job title Company

Development of a Facility for MW-Scale Electrical Testing, Incorporating PHiL Techniques 05:00-05:30 PM

Max Parker Senior R&D Engineer, Power Electronics Machines and Drives PNDC University of Strathclyde **Power Electronics** Room : Menteith

Success Story : Development of Digital Twin for New Soft Starter Offer Based on Hardware In the Loop 04:00-04:30 PM

Simon Gervais R&D Engineer Schneider Electric

PHIL for Grid Forming Inverter Testing 04:30 - 05:00 PM

Sebastian Hubschneider R&D Engineer Opal-RT Technologies

Success Story : Special Features of OPAL-RT's Power Electronics Solutions to Ease Controller Testing 05:00-05:30 PM

Pierre-Yves Robert Strategic Technical Manager and Software Architect Opal-RT Technologies

OPAL-RT Technologies Dinner

After 07:00 PM



TUTORIAL

Assessing Reliability of Hardware in Loop Test model for Controlled Switching of 400KV Shunt Reactor Compensated Transmission Line 04:00-05:00 PM

Urmil Parikh Principal Engineer Power Systems and Global Program Manager Controlled Switching Hitachi Energy Sweden AB

TUTORIAL The View of The Smart Inverter Library and Testing 05:00-05:30 PM

Mehrdad Kazemtabrizi Smart Grid Simulation Specialist OPAL-RT Technologies Nayeem Ninad Research Engineer Canmet



RT24 UK the 28 & 29th of Nov at Edinburgh International Cor 29th MORNIN	nference Centre (EICC)		RT24 ELECTRIFYING THE WORLD BEYOND REAL TIME
Keynote : Grid Analysis Tools for TSOs: Needs and Projection 08:30 - 09:00 AM Room : Lowther		Jean-Baptiste Heyberger Architecture and System Director Super Grid Institute	
Keynote : National HVDC Centre-Experiences of Large Scale Real-Time Simulations, and Future Outlooking GB 09:00 - 09:30 AM Room : Lowther		Ben Marshall Technology Manager and Power System Engineer The National HVDC Centre	
Keynote : Lessons Learnt from 5 years of Oper Environment for Power System Studies 09:30 - 10:00 AM Room : Lowther	rating a PHiL/CHiL	University	em Leterme Professor hen University
Coffee Break 1):00 - 10:30 AM Room : Platform 5 C		Café
HVDC, MMC & FACTS Room : Lowther	Cybersecurity and Di Room : Mente		Tutorial & Training Room : Ochil
MTDC Grid Reconfiguration - Sequential Control Principles and First Applications 10:30 - 11:00 AM Lucas Molina Barros R&D Engineer	Overview of Cyber with OPAL-RT 10:30 - 11:00 AM Frank Corry Technical Marketing Er	DIAMOND Sponsor	
SuperGrid Institute Co-simulation Opportunities for Large Area Models with HVDC Replicas 11:00-11:30 AM Colin Foote Senior Simulation Engineer The National HVDC Centre	Louis Raymond Market Development Key Cybersecurity Research for Insights from KASTEL Security 11:00-11:30 AM Ghada Elbez Group Leader	ent Manager Opal-RT or Energy Systems: / Lab Energy	TRAINING #2 HYPERSIM
Real-time simulation for HVDC interoperability first experience with the InterOPERA project 11:30-12:00 AM Benoit de Foucaud Electrical Engineer RTE	Karlsruher Institut für Technologie (KIT) TUTORIAL Importance of Cybersecurity Simulation 11:30-12:00 PM Steffen Vogel R&D & Software Engineer OPAL-RT Technologies		10:30-12:30 PM Vithuran Vilvarajah Team Lead for Support Europe Opal-RT Technologies
Subject TBD 12:00-12:30 PM Agusti Egea Alvarez Professor Ning Yang Research Associate University of Edinburgh / SP Energy Networks	Design of an adaptive digital a transparency in power grids 12:00-12:30 PM Stephan Ruhe Research Associate Fraunhofer IOSB-AST	2:00-12:30 PM ephan Ruhe Research Associate	

RT24 UK the 28 & 29th of November 2024,

29th AFTERNOON SCHEDULE



Inverter Based Energy Resources Room : Lowther

Subject TBD 01:30-02:00 PM

Michael Smailes Principle Research Engineer ORE Catapult

Role of Hardware-in-the-Loop Testing for Fast Deployment of Grid-Forming Converters 02:00-02:30 PM

Sulav Ghimire Power Systems Engineer Siemens Gamesa

Power Hardware-in-the-Loop Control for Hybrid Energy Storage Systems 02:30-03:00 PM

Masoome Maroufi PhD Researcher Karlsruhe Institute of Technology

Closing Session OPAL-RT 03:00 - 03:30 PM

Room : Lowther

Cybersecurity and Digital Twins Room : Menteith

Digital substation HIL co-simulation, challenges and cybersecurity aspects 01:30-02:00 PM

Gergely Dürgő MSc Student **Máté Rózsa** PhD Student Budapest University of Technology and Economics

Cyber-Physical Power Systems Digital Simulation and Security Analysis 02:00-02:30 PM

Xin Zhang Professor University of Sheffield

Seamless Real-Time co-simulation of Power Systems: A Deep Dive into eMEGASIM & ePHASORSIM 02:30-03:00 PM

Shailendra Singh Research Engineer R&T LIST



TUTORIAL

How to make the most out of your eHS / FPGA Simulation? 01:30-03:00 PM

Sebastien Cense Director of FPGA Simulation OPAL-RT Technologies



Jean Belanger President and CTO Opal-RT Technologies