

# Agenda

	📍 Zürich	📍 Basel	📍 Bern	📍 Montreux	📍 St. Moritz	📍 Arosa	📍 Davos
08:15-09:00	Registrierung						
09:00-10:00	Begrüssung & Keynote						
10:00-11:00	New Product & Technology Introduction						
🕒 11:00-11:30	Kaffeepause/Besuch der Ausstellung						
	Software Development Techniques	Industrial Measurement & Control	Industrial Data Acquisition & Signal Conditioning	Automated Test & Measurement	Innovations Track	Technical Data Management	Real-Time Testing / HIL Simulation
11:30-12:00	The LabVIEW Compiler and Memory Management Techniques Elijah Kerry, National Instruments Corp. ChristianMergl,NationalInstrumentsGermany GmbH (engl./dt.)	What is and what's new in CompactRIO Nicolas Pasquier, National Instruments Switzerland Corp. (frz.)	Modern DAQ Architectures AndreasScholz,NationalInstrumentsGermany GmbH (dt.)	Automated Test Outlook 2012 – Trends and Vision CharlesSchroeder,NationalInstrumentsCorp. (engl.)	Swiss Startup-Program OliverBruder,NationalInstrumentsSwitzerland Corp. (dt.)	What's New in DIAdem 2011 WalterRick,NationalInstrumentsEngineering GmbH & Co. KG (dt.)	HIL Simulation and Real-Time Testing Techniques StephanAhrends,NationalInstrumentsGermany GmbH (dt.)
12:00-12:30	Manufacturing Execution Systems with LabVIEW Beat Liesch, TRUMPF Laser Marking Systems AG (dt.)	Measurement System for Executing Dynamic Type Tests on the Brake System of Railway Vehicles Daniel Leibundgut, Schweizerische Bundesbahnen SBB (dt.)	Test Benches for Determining the Energy Properties of Water Reservoirs Markus Ströhle, gbd LAB GmbH (dt.)	Coffee Makers on the Test Bench AlessandroSebaste,NoserEngineeringAG(dt.)	High-Performance Position Control in the Nanometer Range on an NI CompactRIO System for Testing Medical Implants Dr. Thorsten Schwenke, Thelkin GmbH, Alain von Ritter, Sotronik GmbH	Using NI DIAdem for Validating Reference Software According to the IEC 61083-4 Standard Marco Mailand, ABB Schweiz AG (dt.)	Automating the Test Bay for Component Tests in the Automotive Industry with Adaptive Controllers Sönke von Heymann, ThyssenKrupp Presta Steering/Hans-GeorgHermann,ExpertControl GmbH (dt.)
🕒 12:30-14:30	Mittagspause/Besuch der Ausstellung						
	Engineering Challenges of Mankind					Certifications	
12:30-13:15	Graphical System Design im Embedded-Bereich Marco Schmid, Schmid Elektronik AG (dt.)		Advanced Control of the Future Electrical Infrastructure Prof. Dr. Mario Paolone, EPFL (engl.)			CLAD 12:30-13:45	
13:45-14:30		Life Sciences: From Lab to Market – Accelerating Life Sciences Instrumentation and Medical Devices Design and Test JohnHanks,NationalInstrumentsCorp.(engl.)		KT: Switzerland as a Center of Innovation WalterSteinlin,KommissionfürTechnologieund Innovation (dt.)			CLAD 13:15-14:30
	Software Development Techniques	Industrial Control Solutions	Industrial Data Acquisition & Signal Conditioning	Automated Test & Measurement	Innovations Track	Advanced Measurements	Real-Time Testing / HIL Simulation
14:30-15:00	Improve the Performance of your LabVIEW Projects ChristianMergl,NationalInstrumentsGermany GmbH (dt.)	Making the Move to NI LabVIEW Real-Time and FPGA Programming JosephTagg,NationalInstrumentsSwitzerland Corp. (dt.)	Network Communication with LabVIEW Daniel Riedelbauch, National Instruments Germany GmbH (dt.)	What is New in PXI Automated Test? EvremYarkin,NationalInstrumentsSwitzerland Corp. (dt.)	Skope MR Technologies David Brunner	Overcoming High Speed Analog Measurement Challenges with up to 12,5 GS/s MarcoBrauner,NationalInstrumentsGermany GmbH (dt.)	Developing Distributed Stand-alone Real-Time Applications with the CompactRIO Hardware Platform Luca Pretto, National Instruments Switzerland Corp. (dt.)
15:00-15:30	Cable Fault Detection with Artificial Intelligence Dr. Stefan Messmer, IWM AG (engl.)	Control of a Novel Remote-Center-of-Motion Parallel Manipulator for Surgical Robots Prof. Hannes Bleuler, École Polytechnique Fédérale de Lausanne (dt.)	Distributing branched signal processing pipelines over several computers using the RabbitMQ message broker: a flexible framework connecting LabVIEW to other programming languages Dominik Langer, Marcel van 't Hoff BrainResearchInstitute,UniversityofZurich(dt.)	Realization of a „Universal“ Functional Tester for Electronic Boards Michael Lys, Bobst SA (dt.)	Qualisense Dr. Francesco Dell'Endice Dr. Lijin Aryananda	IP to the Pin – FPGA-based Applications Using NI FlexRIO Christoph Landmann, National Instruments Germany GmbH (dt.)	
🕒 15:30-16:00	Kaffeepause/Besuch der Ausstellung						
	Software Development Techniques	Industrial Measurement & Control	Industrial Data Acquisition & Monitoring	Automated Test & Measurement Focus: RF Measurements & Spectral Monitoring	Innovations Track	Environmental Measurements	Real-Time Testing / HIL Simulation
16:00-16:30	What You Should Know When Building User Interfaces in LabVIEW VincenzoMaira,NationalInstrumentsSwitzerland Corp. (dt.)	Fundamentals of Motion Control with LabVIEW ChristianMergl,NationalInstrumentsGermany GmbH, Alexander Rudolph, National Instruments Switzerland Corp. (dt.)	The Future of Condition Monitoring: Prognostics Systems Using COTS Technologies Lodovico Menozzi, National Instruments Italy (engl.)	Realizing Benefits of Software-Defined RF Tests ChristianGindorf,NationalInstrumentsGermany GmbH (dt.)	nanotag AG Bartjan den Hartogh Tom Forrer	Wireless Sensor Networks Sascha Egger, Francesco Spadafora National Instruments Switzerland Corp. (dt.)	Real-Time Testing with NI VeriStand Andreas Stark, National Instruments Germany GmbH (dt.)
16:30-17:00	Guidelines for NI LabVIEW Applications ThorstenBueiring,ZühlkeEngineeringAG(dt.)	A 100 kW Pilot Solar Plant Controlled by cRIO and Softmotion YvonneBäuerle,SolarTechnologyLaboratory, Paul Scherrer Institut (dt.)	Networked Acquisition of Measurement Data for Component Tests of Gas Turbines Otto Gansner, PI Electronics AG (dt.)	Combining Different Test Technologies in PXI for Maximum Coverage (JTAG, Functional Test, In-Circuit-Test) Matthias Vogel, Konrad Technologies (dt.)	SPECS Zurich GmbH Dr. Alessandro Pioda Daniel Uehli		
17:00-17:30	LabVIEW FPGA under the Hood Joseph Tagg National Instruments Switzerland Corp. (dt.)	Practical Realization of Smart Acoustic Materials by Controlling a Loudspeaker with the Help of a cRIO Platform EtienneRivet,ÉcolePolytechniqueFédéralede Lausanne (engl.)	Power Measurements Fundamentals Vidar Gronas, National Instruments Norway, AlexanderRudolph,NationalInstrumentsSwitzerland Corp. (engl.)	Optimizing DC Measurements Nicolas Pasquier, National Instruments Switzerland Corp. (engl.)		PXI for Structural Measurements Lodovico Menozzi National Instruments Italy (engl.)	Real-Time Simulation of Inverters and Electrical Motors Andreas Stark, National Instruments Germany GmbH (dt.)
🕒 17:30-18:30	Apéro/Besuch der Ausstellung						