

NIDays

THE LabVIEW CONFERENCE 2013

NIDays 2013 Agenda

Denmark

Thursday, 31 October 2013

Hørsholm, Denmark

denmark.ni.com/nidays

Time				
8:00 - 9:00	Certified LabVIEW Associate Developer Exam - Room 5/6			
	Track A - Auditorium	Track B - Room 1	Track C - Room 2	Track D - Room 5/6
8:00 - 9:30	Registration and Exhibition			
9:30 - 10:30	<p>Morning Keynote - Solving Challenging Engineering Applications Now and in the Future</p> <p>Join our international guest speaker as he explores visionary approaches to solving some of the most challenging engineering applications around the globe and glimpse the future through the eyes of engineers. This keynote will demonstrate an exciting variety of technologies and products, applications, prototypes, and research from mobile measurements to cloud integration to advanced control.</p> <p><i>Carlos Guzman, National Instruments (in English)</i></p>			
10:30 - 11:00	Break and Exhibition			
11:00 - 11:45	<p>Tips and Tricks to Speed LabVIEW Development</p> <p>Hear about some simple techniques that can help you code more quickly. Learn about little known LabVIEW features, advanced functions, and other tools that can help you save development time and create more efficient code.</p> <p><i>Samuli Bergström, NI, (in English)</i></p>	<p>System for distribution of software, test sequence and parameters for multiple numbers of NI TestStand platforms, on multiple locations</p> <p>Based on a web based management application, we will introduce a solution on how to integrate system for control of software, test sequence and parameters, when using a large number of test stations, based on NI TestStand. The focus will be on how a distribution system is integrated along with the operator interface in TestStand using LabVIEW.</p> <p><i>Claus Sørensen, DSE Test solutions, (in Danish)</i></p>	<p>Research and Teaching Platforms for Embedded Control and Design</p> <p>In this session you'll learn how National Instruments provides a unified platform that will take you from simulation through to rapid prototyping and deployment. Our tools enable the seamless integration of real-world signals with your mathematical models, whether they were developed in NI LabVIEW or other third party software. Also we'll announce a new low-cost platform targeted to student projects and courses.</p> <p><i>Filip Langenaken, NI, (in English)</i></p>	<p>Hands-on: Introduction to NI LabVIEW</p> <p>Discover how you can apply LabVIEW in this introduction with guided exercises to take real-world measurements and perform signal processing and analysis.</p> <p><i>Eirikur Om-Runarsson, NI (in Danish)</i></p>
11:50 - 12:35	<p>Advanced Tools and Source Code Control Integration in LabVIEW</p> <p>Handle and share common LabVIEW tools between projects and developers can be a challenge in LabVIEW. At CIM we have developed a tool that makes it easier for us to re-use our work in multiple projects through the use of source code control integration and accessibility through the LabVIEW palettes. This session will show how we handle tools and how to integrate tools handling in the LabVIEW Project Explorer using the LabVIEW Provider Framework and LVOOP. It will be a technical session, so LabVIEW experience is recommended.</p> <p><i>Michael Lund Friis, CIM Industrial Systems, (in Danish)</i></p>	<p>Under the Hood: LabVIEW Real-Time Module Based on Linux RT</p> <p>Learn all about this exciting new operating system supported by the LabVIEW 2013 Real-Time Module running under the hood of the next generation of CompactRIO. From the new scheduler to file system permissions and real-time benchmarks, this session will cover all of the important details. Attend to find out about these new improvements and changes through comparisons that will be provided to the real time operating systems used on today's CompactRIO systems.</p> <p><i>Anders Rohde, NI, (in Danish)</i></p>	<p>Academic Platforms for RF and Communications</p> <p>Ground-breaking research and teaching within RF, wireless communication systems and software-defined radio requires a flexible platform for software design, hardware prototyping and implementation. This session details how National Instruments delivers an accessible, highly-modular approach that is benefitting RF & communications researchers all over the world. You will also see how NIs communication platform allows for hands-on learning for students at different levels.</p> <p><i>Filip Langenaken, NI, (in English)</i></p>	

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12:35 - 13:30	Lunch and Expo			
13:30 - 14:30	<p>Afternoon Keynote - Advancements in Graphical System Design</p> <p>Watch NI engineers unveil the latest version of LabVIEW and learn about new features that make you even more productive and expand your capabilities. Besides a demo-heavy tour through LabVIEW 2013, you will also learn about some great customer applications demonstrating graphical system design in cutting-edge measurement and control systems.</p> <p><i>Samuli Berggröm, National Instruments (in English)</i></p>			
14:30 - 14:45	Break and Exhibition			
14:45 - 15:30	<p>Lessons learned using NI's FPGA technology</p> <p>Prevas have used NI's FPGA technology in our test systems since it was released. For FPGA development we uses both LabVIEW FPGA and ordinary VHDL tools. This presentation gives examples from our different projects and also lessons learned from those cases.</p> <p><i>Prevas, (in English)</i></p>	<p>Introduction to Actor Framework (OOP)</p> <p>The Actor Framework (AF) is a powerful tool for managing concurrent processes, but it requires a principled approach to design and implementation. Learn the right approach to actor-oriented programming. Attendees need to be comfortable with LabVIEW object-oriented programming.</p> <p><i>Anders Rohde, NI, (in Danish)</i></p>	<p>The 10 most frequently made mistakes, when designing and building a turn-key production test platform for PCB's</p> <p>National Instruments PXI solutions are a perfect solution if you want to build a modular and flexible test and measurement solution for use in your test laboratory. But if you need to turn this PXI solution into a reliable production test system, there are many issues that need to be solved. In this presentation we will highlight the top 10 "pitfalls" you can expect on your way to design, build and bring your test system to production. On each of the 10 point we will show examples and explain how to overcome them.</p> <p><i>Peter van Oostrom, 6TL Engineering, (in English)</i></p>	<p>Hands-on: Developing an embedded system</p> <p>This hands-on session focuses on extending your LabVIEW skills into FPGA-based design with the LabVIEW reconfigurable I/O (RIO) architecture. You will use the LabVIEW Real-Time and LabVIEW FPGA modules to configure, program, and deploy a RIO-based embedded system.</p> <p><i>Alex Emil Petersen, NI, (in Danish)</i></p>
15:35 - 16:20	<p>Overcoming Microsoft Excel Limitations for LabVIEW Data Analysis and Reporting</p> <p>If you're frustrated with Microsoft Excel's slowness or inability to handle the size or format of your data file, learn how to use a tool designed for engineers instead of being limited by one designed for accountants. Also discover how Siemens used NI DIAdem to determine the root cause of damaging high-voltage transients.</p> <p><i>Casper Klop, NI, (in English)</i></p>	<p>skyWATS.com – Connect with TestStand or LabVIEW, store and analyze test data in the cloud</p> <p>Use our LabVIEW toolkit or TestStand add-on to automatically upload UUT reports to the skyWATS cloud service. Get instant access to reporting, Yield analysis and SPC through your web browser.</p> <p><i>Tom Lomsdalen, Virinco, (in English)</i></p>	<p>Extending Your LabVIEW Skills to LabVIEW Real-Time and LabVIEW FPGA</p> <p>Have you used LabVIEW for your desktop and considered using LabVIEW Real-Time or LabVIEW FPGA for your next project? Learn the skills you need, what to expect when making the transition, and how to avoid common pitfalls.</p> <p><i>Johan Hillergren, NI (in English)</i></p>	
16:20 - 16:50	Happy Hour			