

# NIDays

THE LabVIEW CONFERENCE 2013

## NIDays 2013 Agenda

Finland

Tuesday, 8 October 2013

Espoo, Finland

[finland.ni.com/nidays](http://finland.ni.com/nidays)

Time				
8:00 - 9:00	Certified LabVIEW Associate Developer Exam - Takka			
	Track A - Hall 1	Track B - Palaver	Track C - Luolamies	Track D - Takka
8:00 - 9:30	Registration and Exhibition			
9:30 - 10:30	<p><b>Morning Keynote - Solving Challenging Engineering Applications Now and in the Future</b></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>Luke Schreier Senior Manager - Product Marketing, National Instruments (in English)</i></p>			
10:30 - 11:00	Break and Exhibition			
11:00 - 11:45	<p><b>Tips and Tricks to Speed LabVIEW Development</b></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 Finnish)</i></p>	<p><b>FlexRHINO – streamlined service for FlexRIO-based high performance applications</b></p> <p>Technology is advancing faster than the ability to fully take advantage of it. What was once the domain of multinational research laboratories such as CERN is now available commercial off-the-shelf. Specifically, FlexRIO provides us with the first easily programmable device capable of high data rate multi-channel acquisition with realtime analysis. The challenge lies in harnessing the power available to us. The presentation unfolds fresh technological possibilities, providing the listener with real world examples and practical anecdotes.</p> <p><i>Pasi Karppinen, ProtoRhino, (in Finnish)</i></p>	<p><b>Teaching Platforms for Circuits Courses</b></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>Alex Floor, NI, (in English)</i></p>	<p><b>Hands-on: Introduction to NI LabVIEW</b></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>Make Nguyen, NI, (in Finnish)</i></p>
11:50 - 12:35	<p><b>The Lifecycle of Product Testing</b></p> <p>Significant cost savings can be reached by applying automated testing for R&amp;D verification. At the same time both test coverage and test quality are increased. With proper test management even more benefits can be reached by reusing R&amp;D test setup and methods in production testing. This approach enables comprehensive prototype testing and ensures rapid production ramp-ups. During the production phase Espotel's cloud-based remote management system simplifies change management and provides up-to-date production status view.</p> <p><i>Tero Leppänen, Espotel, (in Finnish)</i></p>	<p><b>Overcoming Microsoft Excel Limitations for LabVIEW Data Analysis and Reporting</b></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><b>Research and Teaching Platforms for Embedded Control and Design</b></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>Alex Floor, NI, (in English)</i></p>	

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12:35 - 13:30	Lunch and Expo			
13:30 - 14:30	<p><b>Afternoon Keynote - Advancements in Graphical System Design</b></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 Bergström, National Instruments, (in English)</i></p>			
14:30 - 14:45	Break and Exhibition			
14:45 - 15:30	<p><b>Tips &amp; Tricks for TestStand Development</b></p> <p>This presentation introduces few ways how to build more scalable test architectures in TestStand with LabVIEW. By using plug-in architectures, you can get more of your test code and the maintenance is easier. You will also hear useful tips and tricks for achieving modular and scalable test code written with TestStand.</p> <p><i>Henry Kyllönen, Protacon, (in Finnish)</i></p>	<p><b>Under the Hood: LabVIEW Real-Time Module Based on Linux RT</b></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>Samuli Bergström, NI, (in Finnish)</i></p>	<p><b>The 10 most frequently made mistakes, when designing and building a turn-key production test platform for PCB's</b></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><b>Hands-on: Developing an embedded system</b></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>Make Nguyen &amp; Teppo Myllys, NI, (in Finnish)</i></p>
15:35 - 16:20	<p><b>LabVIEW Application Builder: Tips and Tricks for Deploying Desktop Applications</b></p> <p>How many times have you created an executable and wondered what was going on behind the scenes? After reviewing basic steps, this session covers advanced lessons on creating simple executables in LabVIEW and offers tips and tricks for configuring a build specification. Learn what makes up an executable, how to include code that is not a dependency, and how to change and add components after an executable has been deployed.</p> <p><i>Urho Sevón, NI, (in Finnish)</i></p>	<p><b>skyWATS.com – Connect with TestStand or LabVIEW, store and analyze test data in the cloud</b></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><b>CompactRIO and LabVIEW in Test &amp; Measurement Solutions</b></p> <p>Using NI CompactRIO and LabVIEW requires good design and development techniques. This session will cover technical aspects and solutions, where OptoFidelity has used LabVIEW and CompactRIO. Our certified LabVIEW engineers will cover the aspects from requirements to delivery, with focus on the technical implementation and data communication. Experience with CompactRIO, LabVIEW RT and LabVIEW FPGA is required.</p> <p><i>Mikko Vaarala, Optofidelity, (in Finnish)</i></p>	
16:20 - 16:50	Happy Hour			