

NIDays

THE LabVIEW CONFERENCE 2013

NIDays 2013 Agenda

Sweden

Thursday, 7 November 2013

Stockholm, Sweden

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| Time | | | | | |
|---------------|--|--|---|---|--|
| 8:00 - 9:00 | Certified LabVIEW Associate Developer Exam - Mälarsalongen CD | | | | |
| | Track A - Drottningssalen B | Track B - Drottningssalen A | Track C - St. Erikssalen | Track D - Mälarsalongen CD | Track E - Mälarsalongen B |
| 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>Jamie Smith, Director of Embedded Systems, 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>Klas Andersson, NI, (in Swedish)</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>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 NI delivers an accessible, highly-modular approach that is benefitting RF & communications researchers all over the world.</p> <p><i>Payman Tehrani, 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>Casper Klop, NI, (in English)</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 English)</i></p> | <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>Per Finnstam, Prevas (in Swedish)</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>Payman Tehrani, NI, (in English)</i></p> | | <p>Efficient Small Cell Radio Base Station Testing with NI PXI</p> <p>Considering today's production of radio base station (RBS) applications as we move into Small Cell, meaning that radio base station business becomes more like a commodity type business than previously, there are essentially four major issues that needs to be addressed: The test time is too long, floor space is limited, the total cost of ownership is too high and adding new measurement capabilities to the systems is too expensive. By the implementation of a test system in PXI we can address all of the above issues.</p> <p><i>Peder Malmlöf, Gefle Testteknik AB (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>Johan Hillergren, National Instruments, (in English)</i></p> | | | | |
| 14:30 - 14:45 | Break and Exhibition | | | | |
| 14:45 - 15:30 | <p>Using LabVIEW in a continuous integration environment</p> <p>An introduction to the use of continuous integration practices for the development of your LabVIEW system. Learn on topics such as: agile development, build servers, automated deployment and more.</p> <p><i>Fredrik Edling, CAG Senseus, (in English)</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>Jimmie Adolph, NI, (in Swedish)</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>Erik van Hilten, NI, (in English)</i></p> | |
| 15:35 - 16:20 | <p>LabVIEW Application Builder: Tips and Tricks for Deploying Desktop Applications</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>Johan Hillergren, NI, (in Swedish)</i></p> | <p>Measurement System Analysis – Can You Trust Your Measurement System?</p> <p>All measurements have variations. If you perform the same measurement multiple times, the value will not be exactly the same. Where do these variations come from? Is it from the unit under test (UUT) or from the measurement system itself? This presentation is about how to perform a MSA (Measurement System Analysis) and identify the sources of variations using a Gage R&R Study of a DAQ-based system.</p> <p><i>Mats Ericsson, AddQ Consulting, (in Swedish)</i></p> | <p>The Lifecycle of Product Testing</p> <p>Significant cost savings can be reached by applying automated testing for R&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&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 English)</i></p> | | |
| 16:20 - 16:50 | Happy Hour | | | | |