

Rockwell Automation
on the move™



February 16, 2012 • Marriott Hotel • Anaheim, CA

You are personally invited to attend Rockwell Automation on the Move presented by Rockwell Automation and our supporting distributors.
Machine Builder Performance • Plant-Wide Optimization • Sustainable Production



LISTEN.
THINK.
SOLVE.®

 Allen-Bradley • Rockwell Software

**Rockwell
Automation**

Rockwell Automation on *the move*™



February 16, 2012: Hands-on Labs & Industry Forums

	Orange County Ballroom – Salon 1	Orange County Ballroom – Salon 2	Orange County Ballroom – Salon 3	Orange County Ballroom – Salon 4	Grand Ballroom – Salon K
7 a.m.-8 a.m.	Registration & Visit Show Floor				
8 a.m.-9:30 a.m.	L01 - Basic PLC Programming with Micro800 Controller	L08 - Process System Tour for Operators, Control Engineers and Maintenance; A PlantPAX Overview	L11 - Introduction to Logix Programmable Automation Controllers	L05 - Basic Drive Programming with PowerFlex 750 Series Drives	L16 - Applying EtherNet/IP in Real-time Applications
9:30 a.m.-10:30 a.m.	Break – Visit Show Floor				
10:30 a.m.-12 p.m.	L03 - The Value of Connected Components	L09 - PlantPAX Process Automation System: Field Device Interface and Asset Management	L12 - Effective Design Methods for Integrating Safety Using Logix Programmable Automation Controllers	L06 - Integration of Variable Frequency Drives into the Logix Programming Environment	L17 - Introduction to Motion Analyzer Design Software
12 p.m.-1 p.m.	LUNCH				
1 p.m.-1:30 p.m.	Break – Visit Show Floor				
1:30 p.m.-3 p.m.	L02 - Advanced PLC Topics for Micro Controllers	L10 - PlantPAX Batch Management & Process Information	L13 - Advanced Features and Functions for Logix Systems	L04 - Integrating Ethernet-enabled Motor Control and Process Control Systems	L18 - Integrated Motion on EtherNet/IP; A Scalable Motion System on a Single Network
3 p.m.-3:30 p.m.	Break – Visit Show Floor				
3:30 p.m.-5 p.m.	CT105 - Industry Forum: Network Control System Security – Protecting Yourself from Outside Attacks	L07 - Turn Control System Data Into Improved Business Performance Leveraging FactoryTalk Products	L14 - Advanced Safety Techniques for Logix Controllers	L15 - New HMI Features and Extensions Using FactoryTalk ViewME v6.1 and PanelView Plus 6	L19 - Architecture Scalability Using the Kinetix 300 Indexing Servo Drive
5 p.m.-5:30 p.m.	Break – Visit Show Floor				

Finding Solutions Geared Toward Smart, Safe & Sustainable Manufacturing

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February 16, 2012: *Technical Sessions & Industry Forums*

	Grand Ballroom – Salon H	Grand Ballroom – Salon G	Grand Ballroom – Salon D	Grand Ballroom – Salon C	Grand Ballroom – Salon B	Grand Ballroom – Salon A
7 a.m.-8:30 a.m.	Registration & Visit Show Floor					
8:30 a.m.-9:30 a.m.	T11 - Training Solutions to Help Improve Workforce Productivity	T08 - Arc Flash Standards and MCC Safety	T45 - Common Safety Solutions for Use Throughout the Plant	T33 - What's New in CompactLogix Controllers	T34 - New Connectivity and Reporting Client for FactoryTalk Historian Machine Edition and Site Edition	CT101 - Industry Forum: OEM – “Total Cost to Design, Develop and Deliver” Machines
9:30 a.m.-10:30 a.m.	Break – Visit Show Floor					
10:30 a.m.-11:30 a.m.	T29 - PlantPAX System Overview	T01 - Get Plugged into Micro800	T18 - Defining and Implementing a Foundation for Energy Management	T40 - Fundamentals of EtherNet/IP Networking	T05 - New Advancements in Medium Voltage Motor Control up to 8,000 HP	CT105 - Industry Forum: Network Control System Security – Protecting Yourself from Outside Attacks
11:30 p.m.-12:30 p.m.	LUNCH					
12:30 p.m.-2 p.m.	Break – Visit Show Floor					
2 p.m.-3 p.m.	T21 - Migration Strategies and Tools for Aging Distributed Control Systems	T02 - The Value of Connected Components and the Building Blocks	T13 - Machine Safety Risk Assessment	T44 - Introduction to Functional Safety	T06 - Review of Power Control Harmonics, Power Factor, Distortion & Displacement	CT103 - Industry Forum: Oil & Gas Best Practice & Users Group
3 p.m.-3:30 p.m.	Break – Visit Show Floor					
3:30 p.m.-4:30 p.m.	T27 - PlantPAX: Advanced Process Control	T10 - A Proactive Approach to Lifecycle Management and Product Obsolescence	T26 - Meeting Regulatory Compliance with Effective Emissions Monitoring	T17 - Drive and Drive Systems Migration Solutions	T46 - Selecting the Right Safety Logic System	
4:30 p.m.-5:30 p.m.	Break – Visit Show Floor					

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HANDS-ON LABS

L01 - Basic PLC Programming with Micro800™ Controller: This introductory lab will cover the basic capabilities and applications of micro Programmable Logic Controllers (PLCs). A brief presentation provides an overview of PLCs and PLC programming. This is followed by programming the Allen-Bradley Micro810™ controller using the front panel keypad. Next, receive an introduction to the Connected Components Workbench software that you will use to create a “stop light” program on the Micro830™ controller.

L02 - Advanced PLC Topics for Micro Controllers: Learn how to more efficiently create a simple speed control or positioning control application using our new competitively priced Micro800 PLC. After a short review of the basics, you'll be shown how CCW application aids make your implementation easier and how you can customize it by creating your own instructions. If your application has a need for fast response to a specific event or timing, we will also show how to quickly respond using Micro800 event or timed interrupts. Finally, this lab will also show how to create a simple structured text program to do complex math and other logic more readily than using relay ladder programming.

L03 - The Value of Connected Components: This lab focuses around the core of small machines (MicroLogix™ Controllers, PowerFlex® 4 Class Drives and PanelView™ Components). The Connected Components Program provides the customer with pre-developed and time-saving building block tools. This lab walks the user through simple speed control and simple temperature control building blocks.

L04 - Integrating Ethernet-enabled Motor Control and Process Control Systems: Experience the ease of integrating CENTERLINE® MCCs and their associated components with the Integrated Architecture™ via Ethernet. Simplify device configuration with Ethernet-enabled components, such as the E3 Plus Electronic Overload Relay with Add-on Profiles and RSLogix™ 5000. Discover how IntelliCENTER® software combined with those devices enhances visibility throughout your enterprise.

L05 - Basic Drive Programming with PowerFlex 750 Series Drives: Learn the basics of drive programming using the PowerFlex family of AC drives, including the latest PowerFlex 755 AC drives. Attendees will program these drives using both device programmers and PC software.

L06 - Integration of Variable Frequency Drives into the Logix Programming Environment: Learn how to seamlessly integrate your PowerFlex drives to Logix controllers using RSLogix 5000 as the integrated engineering environment. A single software solution that simplifies programming and saves configuration time. If you have ever spent long hours searching drive manuals to find the information you need to write your code, this lab is for you.

L07 - Turn Control System Data Into Improved Business Performance Leveraging FactoryTalk Products: Intelligent control devices can deliver mountains of data about your operations. Can you quickly turn data into information to help make good business decisions? Can you correlate operational data to plant output? The FactoryTalk Product Suite helps you identify sources of machine down time, monitor Overall Equipment Effectiveness (OEE) and compare production yield to plan. In this lab you will collect data from disparate data sources and see how this information can be presented in a manner that helps you make timely and effective business decisions.

L08 - Process System Tour for Operators, Control Engineers and Maintenance; A PlantPax™ Overview: Tour the capabilities of the PlantPax system through the eyes of a plant operator, control engineer and maintenance engineer. We will discuss the PlantPax architecture and terminology assume a role then interact with a simulated plant application. Learn how PlantPax helps ease day-to-day functions for these roles. Then add new control and visualization elements to the existing application.

L09 - PlantPax Process Automation System: Field Device Interface and Asset Management: Interested in driving consistency, reliability and flexibility in the integration of smart field devices? Learn how the PlantPax integration tools and FactoryTalk AssetCentre help reduce deployment time while fully utilizing device information for asset management. Use pre-engineered Add-on-Instructions and FactoryTalk View SE and PanelView faceplates. Gain insight into smart instrument integration by identifying and monitoring device parameters, viewing online diagnostics and performing device calibrations. Learn about the broad portfolio of connectivity options available through PlantPax that help support a more scalable offering.

L10 - PlantPax Batch Management & Process Information: This “day in the life” lab presents options to explore the different user perspectives of system designer, engineer, operator, maintenance, quality, R&D and management and how they are used to design, operate, analyze and optimize a production process. Learn more about the integrated set of data collection and decision-making tools and dashboards that help provide real-time access to and analysis of information throughout the enterprise. Spend less time collecting data and more time in decision support to improve your process. Labs include FactoryTalk Historian, FactoryTalk VantagePoint, FactoryTalk View, FactoryTalk Batch and Logix.

L11 - Introduction to Logix Programmable Automation Controllers: Learn how to reduce development time, start-up and maintenance by designing, creating, downloading and testing a RSLogix 5000 program using a Logix Programmable Automation Controller.

L13 - Advanced Features and Functions for Logix Systems: Discover how you can improve the performance of your Logix system, reduce development time required for third-party device integration, increase system availability, reduce recurring engineering costs and implement change management in your application.

L14 - Advanced Safety Techniques for Logix Controllers: In addition to the standard control applications performed by programmable controllers, complex safety applications can also be performed that would be far more difficult and expensive using hardwired devices. This session will review the considerations and techniques for programming safety devices to address safety and productivity issues in complex applications, including analog safety applications.

L15 - New HMI Features and Extensions Using FactoryTalk ViewME v6.1 and PanelView Plus 6: This hands-on lab showcases new capabilities and extensions such as custom graphic animation, email, remote/mobile monitoring, web-based visualization and live video--all supported on the PanelView Plus 6 electronic operator interface terminal. For OEMs, get a first-hand look at how to leverage ActiveX controls and Symbol Factory graphics to design rich, flexible, open machine solutions. For both OEMs and End Users, witness how mobile tablet solutions based on Apple® (iPad®), Android (Xoom) and Windows7 (Slate 500) technology are penetrating the maintenance automation market.

For additional information visit: <http://www.rockwellautomation.com/events/raotm/anaheim>

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HANDS-ON LABS continued

L16 - Applying EtherNet/IP in Real-time Applications: Using EtherNet/IP solutions allow you to realize real-time communication between your industrial and non-industrial networks. Learn about these techniques, best practices and products to optimize your plant network. A prior understanding of general Ethernet concepts, or attendance of the Fundamentals of EtherNet/IP session, is recommended for attendees.

L17 - Introduction to Motion Analyzer Design Software: Learn how to use Motion Analyzer software to help optimize your machine, minimize risk and decrease time to market by making it faster and easier to analyze, simulate and select motion control systems.

L18 - Integrated Motion on EtherNet/IP; A Scalable Motion System on a Single Network: Learn how to apply Kinetix® Integrated Motion, with Kinetix 350 servo drives and CompactLogix™ controllers, to control a wide range of machines on standard EtherNet/IP. This new offering was designed to provide scalability by simplifying integration of the entire control solution on one network – including HMI, controller, motion and I/O.

L19 - Architecture Scalability Using the Kinetix 300 Indexing Servo Drive: Learn how the Kinetix 300 EtherNet/IP indexing servo drive integrates into the RSLogix 5000 software environment for a cost-effective low axis count motion solution. This session covers how to configure, program and commission a Kinetix 300 with a CompactLogix controller and standard EtherNet/IP to gain flexibility and simplicity for your machine.

TECHNICAL SESSIONS

T01 - Get Plugged into Micro800: New applications are made possible with Micro800 controllers with plug-in technology. Focus will be on new plug-ins available from Rockwell Automation and Encompass Partners. Discussion will include digital I/O plug-ins that cost effectively increase I/O capability and Encompass specialty plug-ins that enhance the capabilities of Micro800.

T02 - The Value of Connected Components and the Building Blocks: When designing your stand alone machine, Connected Components allows you to streamline the necessary but time consuming preparation work with ease and convenience. Pre-developed Building Block tools, along with the core set of products – PanelView Component, MicroLogix 1100/1400 and PowerFlex component class drives – provides a valuable solution for OEMs. This session will introduce the available tools (Quick Starts, HMI screens, Ladder Logic, Wiring Diagrams, etc) for a number of common tasks and show you how to apply them to make your applications more cost-effective and convenient.

T05 - New Advancements in Medium Voltage Motor Control up to 8,000 HP: Attendees will review the latest in Medium Voltage Direct-to-Drive technology using proven heat pipe technology to control motors up to 5,000 HP at 4160V and 8,000 HP at 6600V. Discussion will include the differences between liquid-cooled and air-cooled technology and how/when to apply them.

T06 - Review of Power Control Harmonics, Power Factor, Distortion & Displacement: This Workshop will review harmonics in power systems caused by Adjustable Speed Drives, current vectors, total power factor, distortion and displacement power factor and their affect on the kW billed by the utility. It will also provide a comparison of various harmonic mitigation techniques used with Adjustable Speed Drives, with a focus on how they also affect the power distribution system to which they are connected, including generator supplies.

T08 - Arc Flash Standards and MCC Safety: This presentation offers insight into several practical aspects of procuring and applying arc resistant equipment. It is intended to clarify the application of standards such as OSHA 1910, NEC 110.16 and NFPA-70E within typical industrial facilities. This session will also describe how Rockwell Automation MCC solutions fit into an organization's safety program through safe construction features that help prevent electrical shock.

T10 - A Proactive Approach to Lifecycle Management and Product Obsolescence: As products approach the end of their expected life, the availability of parts and resources become more difficult to obtain. Lifecycle Management Services can help you avoid these risks and the possibility of any financial consequences in the form of extended downtime. Learn how to proactively manage your automation lifecycle to minimize downtime (or maximize uptime), prioritize migrations and bridge to new technology.

T11 - Training Solutions to Help Improve Workforce Productivity: Rockwell Automation Global Workforce Solutions collaborate with you to design and implement comprehensive managed training solutions to address your global workforce's electrical, mechanical and industrial controls skills gaps. Whether you are building a new plant, preparing for a conversion, or tasked with reducing costs from under-skilled employees, we utilize tools (Training Advisor) and a structured process (Scope, Design, Deliver) to generate a solution custom-crafted to your plant or enterprise training needs. Focused on flexible, multi-phase, sustainable, blended training solutions, Rockwell Automation Global Workforce Solutions has delivered measurable results, strong investment returns and become the partner-of-choice for today's global manufacturers. Come learn how we can help you improve your workforce's productivity and value.

T12 - Improve Your Reliability and Bottom Line Performance with Asset Management: Rockwell Automation offers many asset management services to optimize production and improve your Return on Net Assets. In this high-level session, learn how to maintain operations with reduced budgets, maximize efficiencies through MRO strategies and mitigate financial risk of aging assets.

T13 - Machine Safety Risk Assessment: Learn the components of a Safety Risk Assessment. Review standards, assign risks and check circuit and guarding performance. This session covers IEC 62061 Methodology/ISO 1412 including a class assignment to complete your own risk assessment.

T17 - Drive and Drive Systems Migration Solutions: Understand the performance advantages and approaches to/for migrating drive systems to the Integrated Architecture. Phased migration approaches will be presented to help enhance productivity without adversely impacting current production.

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TECHNICAL SESSIONS continued

T18 - Defining and Implementing a Foundation for Energy Management:

This session will address effective energy management solutions in 2 parts: theory and application. Customer examples of point solutions for energy visualization and control using RSEnergyMetrix and FactoryTalk VantagePoint will be presented as a foundation. The process of defining and delivering tailored solutions within the Industrial GreenPrint methodology will follow to showcase the unique value Rockwell Automation can deliver. Problem definition, solution development and strategic planning for effective energy management will be explored through presentation and interactive dialog.

T21 - Migration Strategies and Tools for Aging Distributed Control Systems:

Do you have an aging DCS system that needs updating? Learn how to connect, integrate and migrate your existing DCS and PLC systems to the PlantPAx process automation system. Discover the scope of tools available, discuss development of migration opportunities and review well-developed project/program plans. Whether a phased migration, a rip-and-replace project, or one site or multiple sites, this session will provide insight into best practices.

T26 - Meeting Regulatory Compliance with Effective Emissions Monitoring:

As regulations continually become more stringent, implementing an effective emissions monitoring system is essential. This session will explore the benefits and capabilities of Software CEM for real-time emissions monitoring. Learn how this software solution meets or surpasses regulatory requirements without the added labor and material costs associated with alternative hardware solutions.

T27 - PlantPAx: Advanced Process Control: Do your process customers have loops that are difficult to tune and keep tuned? Is standard PID not up to the task? Learn how Advanced Process Control technology, including the APC Function Blocks and Fuzzy Designer, can be used to optimize control performance and save money for your customers.

T29 - PlantPAx System Overview: Gain a comprehensive perspective on the PlantPAx process automation system from control and information, to asset management, field device integration and critical process control and safety. In addition, learn where we're headed in the future to continue to help you achieve process automation excellence.

T33 - What's New in CompactLogix Controllers: Learn how to maximize the value of your Logix investment by getting the most out of it with new features and enhancements. Discussion will include new Logix processors and programming software. Logix models L1, L2 and L3 will be addressed as well as enhancements introduced by RSLogix 5000 v20.

T34 - New Connectivity and Reporting Client for FactoryTalk Historian Machine Edition and Site Edition:

FactoryTalk Historian Machine Edition is for configuration and data collection in a ControlLogix rack and FactoryTalk Historian Site Edition software collects data at the plant-level. See how easy data collection can be done at both the machine-level and the plant-level, including web-reporting and the use of thick clients for reporting and analysis of the data in both FactoryTalk Historian Machine Edition and Historian Site Edition software. You will also learn about integration between an OSI PI Server and multiple FactoryTalk Historian Machine Edition modules and integration with RSLogix 5000 software through add-on profiles.

T40 - Fundamentals of EtherNet/IP Networking: Learn the fundamentals of industrial Ethernet and the capabilities and features of EtherNet/IP. This session will break down the networking lingo and acronyms. Also learn how the Common Industrial Protocol (CIP) fits within the OSI reference model and the value of supporting standard Ethernet and IP network technology.

T44 - Introduction to Functional Safety: Emerging technologies and changing standards provide both new requirements and new opportunities for machine builders. Learn where to find these new opportunities and how to take advantage of them in this session that reviews EN ISO 13849-1, the SISTEMA calculator and other tools you can use to build a better machine.

T45 - Common Safety Solutions for Use Throughout the Plant: Most manufacturing operations involve a wide range of application types – from discrete, to batch, to process – requiring different approaches to safety. This session will discuss how common control system architectures can be used to mitigate risks throughout your plant, mill or brewery to reduce costs, improve safety and productivity.

T46 - Selecting the Right Safety Logic System: Machine control and safety applications range from the very simple, to the very complex. Selecting the right safety logic system is vital to ensure that you produce a safer, more productive, more sustainable and cost-effective machine. This session will explore the pros and cons of various safety logic systems from relays to integrated controllers to help you make the right choice.

CT101 - OEM: "Total Cost to Design, Develop and Deliver" Machines:

A discussion for OEM users highlighting the many factors in machine design and development as it relates to control system selection and delivering those machines quickly, with repeatable quality, and in many cases to customers all over the world.

CT103 - Oil & Gas Industry Forum, Best Practice & Users Group: Gather with other Oil & Gas end users, consultants, and suppliers to discuss best practices, evolving challenges, standards and industry related topics.

CT105 - Network Control System Security Discussion: Learn how to protect your control system networks from outside attacks. This informational forum will discuss latest trends, issues, threats, and recommendations that focus on industrial network users.

Sponsoring distributors:



Rockwell Automation PartnerNetwork™



Visit our participating PartnerNetwork™ Partners during the Rockwell Automation on the Move event. Each time you stop by a partner booth you can enter to win an Apple® iPad.®

For a current listing see the registration site at:
<http://rockwellautomation.com/events/raotm/anaheim>

Rockwell Automation *on the move*™

February 15-16, 2012
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Anaheim, CA 92802

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For additional information visit:
<http://www.rockwellautomation.com/events/raotm/anaheim>

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