



**The Sacramento Area Section Maintenance Training Committee Present the 2012 Benchmarking Series  
Rockwell Automation on the Move**

<b>Date:</b>	February 8 or 9, 2012	
<b>Location:</b>	Double Tree Hotel 1150 Ninth Street Modesto, CA 95354	
<b>Speakers:</b>	Various speakers that will cover the latest trends in manufacturing, the latest developments in control technology, and the latest suite of products and services from Rockwell Automation. Refer to attached Rockwell Automation Brochure for details.	
<b>Times:</b>	6:00 AM Bus Leaves Sacramento 7:00-8:30 AM Registration 8:30-10:00 AM Technical Sessions and Hand-On Labs 10:00-10:30 AM Break and Visit Show Floor 10:30-12:00 AM Technical Sessions and Hand-On Labs 12:00-1:00 PM Lunch 1:00-3:00 PM Technical Sessions and Hand-On Labs 3:00-3:30 PM Break and Visit Show Floor 3:30-5:00 PM Technical Sessions and Hand-On Labs 5:00-8:30 PM Dinner and Visit Show Floor 9:00 PM Bus Leaves Modesto	
<b>Program:</b>	The conference will offer a variety of Hands On Labs, Industry Forums and Technical Session that will cover the suite of products and services offered by Rockwell Automation.  Refer to the attached brochure for further details.	
<b>Contact Hours:</b>	6.5 Contact Hours for Maintenance Training will be awarded for attendance at this session.	
<b>Reservations:</b>	Register online at <a href="http://www.rockwellautomation.com/events/raotm/modesto/">http://www.rockwellautomation.com/events/raotm/modesto/</a> and copy this form and fill out name, agency, and phone number below and mail it with the appropriate payment to or form and payment can be presented day of session: <b>Andrew Briones</b> <b>HydroScience Engineers</b> <b>10569 Old Placerville Road</b> <b>Sacramento CA 95827</b> <b>Make checks payable to: Sacramento Area Section, CWEA</b>	
<b>Reservation Requirement:</b>	ADVANCED REGISTRATION IS MANDATORY BY JANUARY 15.	
<b>Questions:</b>	Please contact the Sacramento Area Section Maintenance Training Committee Co-Chairman with questions. <b>Andrew Briones (Hydroscience Engineers) (916) 288-6204</b> <b>or e-mail at <a href="mailto:abriones@hydroscience.com">abriones@hydroscience.com</a></b>	
<b>Payment:</b>	SAS Local Section Members: \$10	Non-Members: \$17

Name: \_\_\_\_\_

Agency: \_\_\_\_\_

Phone Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_ :

**Rockwell Automation**  
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February 8-9, 2012 • DoubleTree Hotel • Modesto, 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**



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# Rockwell Automation on *the move*™



## February 8, 2012: Hands-on Labs & Industry Forums

	Hands-on Lab Room 1	Hands-on Lab Room 2	Hands-on Lab Room 3	Hands-on Lab Room 4	Hands-on Lab Room 5	Industry Forum Sacramento 1 & 2
7 a.m.-8:30 a.m.	Registration & Visit Show Floor					
8:30 a.m.-10 a.m.	L03 - The Value of Connected Components	L08 - Process System Tour for Operators, Control Engineers and Maintenance; A PlantPAX Overview	L19 - Architecture Scalability Using the Kinetix 300 Indexing Servo Drive	L11 - Introduction to Logix Programmable Automation Controllers	L05 - Basic Drive Programming with PowerFlex 750 Series Drives	CT260 - Batch Forum – World Class Batch Performance – Flexible Sequencing, Modularity & Reporting
10 a.m.-10:30 a.m.	Break – Visit Show Floor					
10:30 a.m.-12 p.m.	L01 - Basic PLC Programming with Micro800 Controller	L09 - PlantPAX Process Automation System: Field Device Interface and Asset Management	L12 - Effective Design Methods for Integrating Safety Using Logix Programmable Automation Controllers	L13 - Advanced Features and Functions for Logix Systems	L06 - Integration of Variable Frequency Drives into the Logix Programming Environment	CT261 - Water Wastewater Forum – Achieve Reliability and Security Through Process Control, Redundancy and Intelligent Motor Control
12 p.m.-1 p.m.	LUNCH					
1:30 p.m.-3 p.m.	L02 - Advanced PLC Topics for Micro Controllers	L10 - PlantPAX Batch Management & Process Information	L15 - New HMI Features and Extensions Using FactoryTalk ViewME v6.1 and PanelView Plus 6	L18 - Integrated Motion on EtherNet/IP; A Scalable Motion System on a Single Network	L16 - Applying EtherNet/IP in Real-time Applications	CT262 - Food & Beverage Forum – Improved Performance through Plant-Wide Optimization
3 p.m.-3:30 p.m.	Break – Visit Show Floor					
3:30 p.m.-5 p.m.	CT100 - Connecting Logix to field devices through network interface modules and wireless access points using Prosoft Technologies	L07 - Turn Control System Data Into Improved Business Performance Leveraging FactoryTalk Products	L14 - Advanced Safety Techniques for Logix Controllers	L04 - Integrating Ethernet-enabled Motor Control and Process Control Systems	L17 - Introduction to Motion Analyzer Design Software	CT263 - Remediating, Retrofitting and Reconditioning Your Power System Equipment
5 p.m.-5:30 p.m.	Break – Visit Show Floor					

Finding Solutions Geared Toward Smart, Safe & Sustainable Manufacturing  
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**February 8, 2012: Technical Sessions**

	Tech Session <i>Room Pistache</i>	Tech Session <i>Room Gingo</i>	Tech Session <i>Room Ash</i>	Tech Session <i>Room Magnolia</i>
7 a.m.-9 a.m.	Registration & Visit Show Floor			
9 a.m.-10 a.m.	T01 - Get Plugged into Micro800	T04 - The Value of EtherNet/IP-enabled Intelligent Motor Control Devices	T14 - Arc Flash Services – More Than Just Labeling	T12 - Improve Your Reliability and Bottom Line Performance with Asset Management
10 a.m.-10:30 a.m.	Break – Visit Show Floor			
10:30 a.m.-11:30 a.m.	T21 - Migration Strategies and Tools for Aging Distributed Control Systems	CT105 -How Virtualization Rocks Your World – Positive Effects Virtualization Is Having on Profits	T40 - Fundamentals of EtherNet/IP Networking	T29 - Achieving Plant-wide Optimization with Rockwell Automation PlantPAx Systems and Endress+Hauser Instruments
11:30 a.m.-12 p.m.	Break – Visit Show Floor			
12 p.m.-1 p.m.	LUNCH			
1 p.m.-1:30 p.m.	Break – Visit Show Floor			
1:30 p.m.-2:30 p.m.	T08 - Arc Flash Standards and MCC Safety	T18 - Defining and Implementing a Foundation for Energy Management	T03 - Current Control Panel Designs, Standards and Products that Comply with Changes to the National Electric Code and UL 508A	CT104 - Empower Operators with Alarms, Alerts and KPIs
2:30 p.m.-3:30 p.m.	Break – Visit Show Floor			
3:30 p.m.-4:30 p.m.	T13 - Machine Safety Risk Assessment	T41 - Specifying and Delivering Convergence-Ready EtherNet/IP Network Solutions	T20 - Greater Visibility of Energy Consumption with Energy-enabled Components and Monitoring/Analysis Tools	T33 - What's New in CompactLogix Controllers
4:30 p.m.-5:30 p.m.	Break – Visit Show Floor			

# Rockwell Automation on the *move*™



## February 9, 2012: Hands-on Labs & Industry Forums

	Hands-on Lab Room 1	Hands-on Lab Room 2	Hands-on Lab Room 3	Hands-on Lab Room 4	Hands-on Lab Room 5	Industry Forum Sacramento 1 & 2
7 a.m.-8:30 a.m.	Registration & Visit Show Floor					
8:30 a.m.-10 a.m.	L03 - The Value of Connected Components	L08 - Process System Tour for Operators, Control Engineers and Maintenance; A PlantPAx Overview	L19 - Architecture Scalability Using the Kinetix 300 Indexing Servo Drive	L11 - Introduction to Logix Programmable Automation Controllers	L05 - Basic Drive Programming with PowerFlex 750 Series Drives	CT264 - OEM Forum – Helping Machine Builders Deliver Innovative Solutions to Customers Today and in the Future
10 a.m.-10:30 a.m.	Break – Visit Show Floor					
10:30 a.m.-12 p.m.	CT101 - Plant-wide Food & Beverage Solutions with Integrated Architecture	L09 - PlantPAx Process Automation System: Field Device Interface and Asset Management	L12 - Effective Design Methods for Integrating Safety Using Logix Programmable Automation Controllers	L13 - Advanced Features and Functions for Logix Systems	L06 - Integration of Variable Frequency Drives into the Logix Programming Environment	CT265 - Safety Forum – A Systematic Approach to Equipment Safety
12 p.m.-1 p.m.	LUNCH					
1:30 p.m.-3 p.m.	L02 - Advanced PLC Topics for Micro Controllers	L10 - PlantPAx Batch Management & Process Information	L15 - New HMI Features and Extensions Using FactoryTalk ViewME	L18 - Integrated Motion on EtherNet/IP; A Scalable Motion System on a Single Network	L16 - Applying EtherNet/IP in Real-time Applications	CT266 - Plantwide Networking & Connectivity Forum – Future Trends in Industrial Networking – Focus on EtherNet I/P
3 p.m.-3:30 p.m.	Break – Visit Show Floor					
3:30 p.m.-5 p.m.	L01 - Basic PLC Programming with Micro800 Controller	L07 - Turn Control System Data Into Improved Business Performance Leveraging FactoryTalk Products	L14 - Advanced Safety Techniques for Logix Controllers	L04 - Integrating Ethernet-enabled Motor Control and Process Control Systems	L17 - Introduction to Motion Analyzer Design Software	CT267 - Sustainability Forum – Strategic Energy Management for Higher Profitability
5 p.m.-5:30 p.m.	Break – Visit Show Floor					

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February 9, 2012: *Technical Sessions*

	Tech Session <i>Room Pistache</i>	Tech Session <i>Room Gingo</i>	Tech Session <i>Room Ash</i>	Tech Session <i>Room Magnolia</i>
7 a.m.-9 a.m.	Registration & Visit Show Floor			
9 a.m.-10 a.m.	T26 - Meeting Regulatory Compliance with Effective Emissions Monitoring	T22 - Production Management Solutions Using Batch, Sequencing and Process Information	T45 - Common Safety Solutions for Use Throughout the Plant	T31 - Future Trends in Industrial Networking
10 a.m.-10:30 a.m.	Break – Visit Show Floor			
10:30 a.m.-11:30 a.m.	CT103-Integrated Switchgear with Rockwell Automation	T27 - PlantPAX: Advanced Process Control	T11 - Training Solutions to Help Improve Workforce Productivity	T36 - Manufacturing Intelligence in Action: Interactive Demo
11:30 a.m.-12 p.m.	Break – Visit Show Floor			
12 p.m.-1 p.m.	LUNCH			
1 p.m.-1:30 p.m.	Break – Visit Show Floor			
1:30 p.m.-2:30 p.m.	T38 - Answering Today's Control Challenges with Logix-scalable Solutions	T06 - Review of Power Control Harmonics, Power Factor, Distortion & Displacement	CT106 - Reducing your Total Cost to Design, Develop and Deliver Machines	T47b - PlantPAX High Availability
2:30 p.m.-3:30 p.m.	Break – Visit Show Floor			
3:30 p.m.-4:30 p.m.	T43 - Reduce Machine Size, Design Time and Assembly Time with Integrated Drive-Motors	T34 - New Connectivity and Reporting Client for FactoryTalk Historian Machine Edition and Site Edition	T17 - Drive and Drive Systems Migration Solutions	T32 - What's New in Visualization
4:30 p.m.-5:30 p.m.	Break – Visit Show Floor			

# Rockwell Automation on the *move*™



## HANDS-ON LABS & INDUSTRY FORUMS

**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.

**L12 - Effective Design Methods for Integrating Safety Using Logix Programmable Automation Controllers:** See how Rockwell Automation has integrated safety products, features and functions into an environment that allows effective and efficient programming for your safety needs. Parallel safety processing, dedicated safety tasks in the PLC, certified safety function blocks and safety I/O handling work together allowing you to achieve your safety goals in a much simpler, straightforward manner.

**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.

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

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### HANDS-ON LABS & INDUSTRY FORUMS continued

**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.

**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.

**CT100 - Connecting Logix to Field Devices Through Network Interface Modules and Wireless Access Points using Prosoft Technologies:** Learn how to connect Logix controllers to field devices through network interface modules and wireless access points using Prosoft Technologies products.

**CT101 - Plant Wide Food & Beverage Solutions with Integrated Architecture:** This session will provide an overview of implemented solutions with Integrated Architecture from Rockwell Automation in the food and beverage industry. The session will be hosted by a local Rockwell Automation System Integrator Partner, who will share their experiences and advantages of using the Integrated Architecture Solution from Rockwell Automation to implement solutions.

**CT260 - Batch Forum – World Class Batch Performance – Flexible Sequencing, Modularity & Reporting:** This forum will be presented by subject experts, discussing the value of flexible production sequencing, scheduling, modularity and reporting.

**CT261 - Water Wastewater Forum – Achieve Reliability and Security Through Process Control, Redundancy and Intelligent Motor Control:** This forum will be presented by subject experts discussing ways to achieve reliability and security through process control, redundancy and Intelligent Motor Control.

**CT262 - Food & Beverage Forum – Improved Performance Through Plant-wide Optimization:** This forum will focus on maximizing yield and throughput by increasing equipment efficiency and plant processes using predictive modeling techniques.

**CT263 - Remediating, Retrofitting and Reconditioning Your Power System Equipment:** This forum will discuss ways to maximize the life of your existing power systems as well as meeting upgrade and safety requirements by remediating, retrofitting and reconditioning your power system equipment.

**CT264 - OEM Forum – Helping Machine Builders Deliver Innovative Solutions Today and in the Future:** Learn how machine builders can reduce time to market and increase profitability by delivering innovative solutions for your customers today and in the future.

**CT265 - Safety Forum – A Systematic Approach to Equipment Safety:** Learn how to meet your safety requirements and challenges using a systematic approach and utilizing services from Rockwell Automation. Learn to make safety work as a tool to increase profitability and performance metrics within your company.

**CT266 - Plant-wide Networking and Connectivity Forum – Future Trends in Industrial Networking – Focus on EtherNet/IP:** Discuss and learn about the future trends in industrial networking and the evolution to EtherNet/IP for plant-wide control and information. This forum will be hosted by a pioneer of EtherNet/IP. Hear first hand about the development and direction of today's preferred industrial network of choice.

**CT267 - Sustainability Forum – Strategic Energy Management for Higher Profitability:** This forum will discuss ways to help customers meet their sustainability goals while driving higher profits, with creative energy management solutions and methodologies from Rockwell Automation.

### 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.

**T03 - Current Control Panel Designs, Standards and Products that Comply with Changes to the National Electric Code and UL 508A:** Significant changes have been mandated affecting some automation product designs, technologies and their implementation. Learn how these changes and the influences of the global market have influenced control products, panel design conventions and trends. Learn how some new products required for compliance may also offer an opportunity to optimize power and control circuit designs for cost, reliability, safety, size, productivity and installation efficiencies.

**T04 - The Value of EtherNet/IP-enabled Intelligent Motor Control Devices:** Learn how the portfolio of Intelligent Motor Control devices leverages your investment in automation to provide continuous improvement for communication and production in your plant. With EtherNet/IP enabled devices, including Allen-Bradley E1, E3 overload relays and SMC controllers, you receive premier integration into the Rockwell Automation Integrated Architecture where these communication capabilities not only reduce your wiring efforts and improve commissioning time but, also provide an important key to your automation success.

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## TECHNICAL SESSIONS continued

**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.

**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.

**T14 - Arc Flash Services – More Than Just Labeling:** Many avenues are available for arc flash compliance – from utilizing in-house resources to outside services. Attend this Session to understand what the requirements are and understand the other benefits beyond risk reduction to technicians.

**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.

**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.

**T20 - Greater Visibility of Energy Consumption with Energy-enabled Components and Monitoring/Analysis Tools:**

Learn how the enhanced Integrated Architecture Energy Accelerator Toolkit and CIP Energy-enabled sensing and control components help customers gain a detailed view of their production energy consumption behavior to reduce resource usage and lower costs. These energy-enabled components are the foundation of the Industrial GreenPrint strategic energy management methodology.

**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.

**T22 - Production Management Solutions Using Batch, Sequencing and Process Information:**

Are you looking to increase process agility, meet regulatory compliance and lower your total cost of ownership? Discover how you can reach these goals through the PlantPax capabilities provided by controller-based batching, FactoryTalk Batch, integrated batch visualization, batch reporting and historical data analysis.

**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 - Achieving Plant-wide Optimization with Rockwell Automation**

**PlantPax Systems and Endress+Hauser Instruments:** 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. This session will also discuss the partnership between Rockwell Automation and Endress+Hauser and how to seamlessly integrate process instruments into PlantPax systems, significantly reducing integration costs and giving your company a competitive advantage.

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

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#### TECHNICAL SESSIONS continued

**T31 - Future Trends in Industrial Networking:** Learn how advances in industrial networking achieve greater plant performance such as EtherNet/IP for motion, process, safety and real-time control will be deployed to deliver plant performance improvements. Understand what new wired and wireless technologies are emerging at the device, peer and business levels and leverage the technology to gain a competitive advantage.

**T32 - What's New in Visualization:** Determine the appropriate Visualization solution to solve your application needs, from machine-based operator interface to highly networked systems. Gain an in-depth understanding of scalable machine solutions from Rockwell Automation – covering dedicated systems (islands of control) to highly networked process applications. This session not only focuses on the New FactoryTalk View Studio 6.1, PanelView Plus 6, FactoryTalk ViewPoint 2.0 and Extreme Environment Industrial Computers, but also the pre-existing PanelView Plus Compact and Industrial Computers running Windows Embedded Standard 2009 Operating System.

**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.

**T36 - Manufacturing Intelligence in Action:** Interactive Demo: See how role-based dashboards and key performance indicators can improve operation efficiencies, from an operator to plant manager and beyond. Interactive demonstrations will show time-saving features of a Manufacturing Intelligence strategy, like reporting, analytics and production efficiency. The interactive nature of the presentation also gives you a unique look at how features of Microsoft's SharePoint simplify data access and sharing.

**T38 - Answering Today's Control Challenges with Logix-Scalable Solutions:** Machine builders, end users, system integrators and Solution Providers will learn how true scalability and information integration can utilize the same technology for control, regardless of the size of the application's machines or process.

**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.

#### **T41 - Specifying and Delivering Convergence-Ready EtherNet/IP Network**

**Solutions:** Learn how to simplify integration into your customer's network infrastructure while meeting the needs of both your customer's control system engineering and IT network engineering requirements. This session will provide design considerations to help Machine Builders and System Integrators deliver Convergence-Ready network solutions.

#### **T43 - Reduce Machine Size, Design Time and Assembly Time with Integrated Drive-Motors**

**Solutions:** Discover how Kinetix integrated drive-motors can help you optimize your machine footprint and reduce design time while reducing wiring and cabling. Based on the popular Kinetix 6000 servo drives and rugged MP-Series servo motors, integrated drive-motors seamlessly integrate with Kinetix 6000 and Kinetix 6200 designs making it easy for machine builders to realize the benefits of this new technology.

**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.

**T47b - PlantPAX High Availability:** Understand the aspects of high availability and redundancy for use in maintaining control of critical process applications – how to choose the correct options for your PlantPAX application and how to implement those options for best results. We'll also cover new high availability EtherNet/IP options and the new powerful redundant I/O platform.

**CT103 - Integrated Switchgear with Rockwell Automation:** Learn how Rockwell Automation and their partners can customize and couple a switchgear solution to provide turnkey fully integrated power and control solutions to meet your project needs.

**CT104 - Empower Operators with Alarms, Alerts and KPIs:** Learn how to empower your operators and increase factory floor performance and profits by providing real-time alerts, alarms and performance KPIs delivered through Rockwell Software solutions.

**CT105 - How Virtualization Rocks Your World – Positive Effects Virtualization Is Having on Profits:** Learn how Virtualization is increasing customer profitability. Hear a first hand customer testimonial about successful implementation and how it helped increase profitability. You will also hear from a Rockwell Automation expert on best practices for implementing Virtualization and VMWare software.

**CT106 - Reducing your Total Cost to Design, Develop and Deliver<sup>SM</sup> Machines:** Learn how to leverage the latest tools and technologies to reduce your Total Cost to Design, Develop and Deliver machines. Machine builders can learn how to reduce time to market and increase profitability.

## 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/modesto>

## Rockwell Automation *on the move*™

February 8-9, 2012  
DoubleTree Hotel  
1150 Ninth Street  
Modesto, CA 95354

Contact: Rockwell Automation San Francisco Office at +1 (925) 242.5700

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

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