Program Guide

June 4-5, 2014
7:00 AM - 5:30 PM

Rockwell Automation
on the move

Joseph S. Koury
Convention Center
3121 High Point Road
Greensboro, NC 27407

Sponsored by:

ES&E Electric Supply & Equipment Co.

McNAUGHTON-McKAY ELECTRIC COMPANY
YOUR ELECTRICAL CONNECTION

ECK Supply Co.

Williams Supply, Inc.
WILLIAMS
Employee Owned

Rexel

EECO
Electrical Equipment Co

EESCO
ENGLEWOOD ELECTRICAL SUPPLY
A Division of WESCO Distribution, Inc.

For additional information scan the QR code
or visit: ***http://www.rockwellautomation.com/events/raotm/***

LISTEN.
THINK.
SOLVE.®

Allen-Bradley • Rockwell Software

Rockwell Automation

Rockwell Automation
on the move™

Join us!

Come learn how smart, safe and sustainable solutions can turn your marketplace challenges into advantages.

Take advantage of automation expertise from Rockwell Automation and our PartnerNetwork™ providing you with a comprehensive set of industry leaders in distribution, systems integration machine building and complementary technologies.

Smart, Safe, Sustainable Solutions

Enable Plant-wide Optimization
Helping you get more productivity and efficiency from your automation investments throughout all stages of your plant's lifecycle.

Boost Machine Builder Performance
Flexible, scalable automation solutions designed to lower Total Cost to Design, Develop and Deliver℠ machines and improve overall performance.

Drive Sustainable Production
Increase competitiveness and overcome the rising costs of energy, raw materials and lost worker productivity.

Sponsored by:

ES&E
Electric Supply & Equipment Co.

McNAUGHTON-McKAY ELECTRIC COMPANY
YOUR ELECTRICAL CONNECTION

ECK Supply Co.

Williams Supply, Inc.
WILLIAMS
Employee Owned

REXEL

EECO
Electrical Equipment Co

EESCO
ENGLEWOOD ELECTRICAL SUPPLY
A Division of WESCO Distribution, Inc.

Make the most out of this event

- Visit exhibits that go beyond products and technology – see the newest and most advanced power, control and information solutions available from Rockwell Automation and our partners
- Participate in technical sessions focused on key automation issues and trends
- Experience our technologies first hand in hands-on labs
- Capitalize on all the networking opportunities to talk with industry, application and technology leaders
- Earn Professional Development Hours (PDH) credits for attending hands-on labs and technical sessions

REGISTER ONLINE TODAY

http://www.rockwellautomation.com/raotm/greensboro

For more information, contact your local distributor or Michelle Keough at tag@ra.rockwell.com or call (704) 665-6019.

Hands-on Labs

WEDNESDAY AND THURSDAY, JUNE 4-5

	Imperial A	Imperial B	Imperial C	Imperial D	Imperial E	Imperial F	Imperial G
7 AM	**Registration and Visit Show Floor**						
8:00 AM	L06 – Basic PLC Programming with Micro800™ Controller Family	L08 – New Techniques to Increase Efficiency with PanelView™ Plus 6 Applications	L11 – Drive Programming with the New PowerFlex® 520-Series AC Drive	L01 – Introduction to Studio 5000 Logix Designer™	L20 – Solve Your Application Challenges with New Sensing Solutions	L16 – Introduction to the PlantPAx™ Process Automation System for Operations and System Engineering	L24 – Basic Drive Programming with PowerFlex 750-Series Drives
9:30 AM	**Visit Show Floor/Networking**						
10 AM	L07 – Advanced PLC Topics for Micro800 Controller Family	L08 – New Techniques to Increase Efficiency with PanelView Plus 6 Applications	L11 – Drive Programming with the New PowerFlex 520-Series AC Drives	L03 – Understanding Advanced Programming and Editing Techniques in Studio 5000 with Logix Designer	L21 – Introduction to the Guardmaster® 440C-CR30 Software Configurable Safety Relay	L29 – Applying EtherNet/IP in Real-Time Applications	L14 – Integrated Motion on EtherNet/IP
11:30 AM	**Visit Show Floor/Lunch/Networking**						
1:00 PM	L06 – Basic PLC Programming with Micro800 Controller Family	L08 – New Techniques to Increase Efficiency with PanelView Plus 6 Applications	L11 – Drive Programming with the New PowerFlex 520-Series AC Drives	L01 – Introduction to Studio 5000 Logix Designer	L13 – Reducing Machinery Safety System Development Time Using Safety Automation Builder	L16 – Introduction to the PlantPAx Process Automation System for Operations and System Engineering	L24 – Basic Drive Programming with PowerFlex 750-Series Drives
2:30 PM	**Visit Show Floor/Networking**						
3:00 PM	L07 – Advanced PLC Topics for Micro800 Controller Family	L08 – New Techniques to Increase Efficiency with PanelView Plus 6 Applications	L11 – Drive Programming with the New PowerFlex 520-Series AC Drives	L03 – Understanding Advanced Programming and Editing Techniques in Studio 5000 with Logix Designer	L21 – Introduction to the Guardmaster 440C-CR30 Software Configurable Safety Relay	L29 – Applying EtherNet/IP in Real-Time Applications	L14 – Integrated Motion on EtherNet/IP
4:30 PM	**Visit Show Floor/Networking**						

WEDNESDAY AND THURSDAY, JUNE 4-5

	Auditorium I	Auditorium II	Auditorium III	Biltmore A & B	Guilford A	Guilford C	Imperial H
7 AM	Registration and Visit Show Floor						
8:30 AM	CT200 – Variable Frequency Drive Cable – Essential or Overkill? (Presented by General Cable)	T51 – PlantPAx Process Automation System Overview	T01 – Survive the Maintenance Apocalypse	CT201 – Tools and Best Practices for Converting PLC-5 and SLC-500 to the Logix Platform	CT202 – Fundamentals of Ethernet/IP Networking	T64 – Machinery Safety System Selection and Development	T81 – Protecting Your Architecture Investment through Rockwell Automation Power Quality Solutions
9:30 AM	Visit Show Floor/Networking						
10 AM	CT203 – VFDs, How They Work and How They Interact with Your Power Distribution System	CT204 – Advanced Process Control Techniques	T96 – Using Manufacturing Intelligence to Provide Information for Better Business Decisions	CT205 – Adding Adaptive Mobile Computing to Your Factory Floor (Presented by ACP)	CT206 – The Internet of Things (Presented by Cisco)	CT207 – Machine Safety System Calculations Using SISTEMA	CT208 – Automation Solutions for the Water and Wastewater Industry
11 AM	T102 – Understanding the Standards Surrounding Arc Flash Hazards and Arc-Resistant Equipment	T58 – Strategies and Tools for Migrating Legacy Distributed Control Systems	T04 – Health Is Wealth – The Importance of Remote Monitoring	T08 – Increasing Software Development Efficiency Using the Integrated Architecture™ Application Tools	CT209 – Recommended Solutions by Rockwell Automation and Cisco for Scalable and Secure Remote Access by Support Groups, OEMs and Partners	CT260 – Safety First: Putting Up Your Guard with Rockwell Automation Safety Technology (Presented by Polytron)	CT261 – Wastewater Nutrient Removal – Advanced Analytical Technology (Presented by Carotek)
12:00 PM	Visit Show Floor/Lunch/Networking						
1 PM	CT262 – VFD-to-Motor Installation Considerations	CT263 – Life Sciences SCADA Implementation with PlantPAx (Presented by Avid Solutions)	T07 – Achieving a Higher Level of Maintenance and Reliability to Help You Increase Uptime	T14 – Accelerate Your Small Machine Design with Connected Component Solutions	CT264 – The Need for Speed – Best Practices in Deploying EtherNet/IP Networks (Presented by Panduit)	T46 – Global Short Circuit Current Rating Solutions	T101 – Understanding Medium Voltage AC Drives
2 PM	T84 – Drive Productivity with the Versatile Low-Voltage PowerFlex AC Drive Portfolio	CT265 – Design Considerations for a High-Availability PlantPAx System Using 1715 Redundant I/O (Presented by Industrial Automated Systems)	T83 – Energy Monitoring and Control with the Rockwell Automation Energy Intelligence Portfolio	CT266 – Virtualization for Industrial Applications (Presented by Stratus Technologies)	T29 – Industrial Demilitarized Zone Design Principles	T75 – Lock Out Tag Out (LOTO) – More Than Just Locking Out Energy Sources	CT267 – Improving Operational Efficiency with PharmaSuite MES (Presented by NNE Pharmaplan)
3 PM	Visit Show Floor/Networking						
3:30 PM	T85 – Intelligent Motor Control Using an Integrated EtherNet/IP Network	CT268 – FactoryTalk® Batch System Implementation Strategy (Presented by Rovisys)	CT269 – Migrate Your Legacy Remote I/O Systems Over Multiple Phases (Presented by ProSoft)	CT270 – Tools and Best Practices for Converting Legacy PanelView Units to the PanelView Plus 6 Platform	CT271 – Fundamentals of Network Resiliency and Redundancy for EtherNet/IP	CT272 – New Robot Safety Standards – Understand and Apply Before the January 1 Due Date	CT273 – Controlling Your Bottom Line with Energy Management (Presented by Concept Systems)
4:30 PM	Visit Show Floor/Networking						

Hands-on Labs

L01 – Introduction to Studio 5000 Logix Designer: Learn how to reduce development time, start-up and maintenance of your control system by designing, creating, downloading and testing an Studio 5000 Logix Designer program using a Logix Programmable Automation Controller.

L03 – Understanding Advanced Programming and Editing Techniques in Studio 5000 Logix Designer: Take full advantage of programming features that set Logix Programmable Automation Controllers apart from conventional control systems. Learn how to improve productivity by using global objects in add-on instructions and FactoryTalk View.

L06 – Basic PLC Programming with Micro800 Controller Family: This introductory lab will cover the basic capabilities, applications and programming of micro Programmable Logic Controllers (PLCs). In this lab you will learn about the Micro800 Controller features such as enhanced graphic programming and controller password protection. This is followed by programming the Micro800 PLCs with the Connected Components Workbench™ software for a simple application.

L07 – Advanced PLC Topics for Micro800 Controller Family: In this advanced lab, learn how to interface the Micro800 Controller Family with the PowerFlex Compact Drives and Kinetix® Component Servo Drives. Participants will utilize the Connected Components Accelerator Toolkit to complete simple machine applications.

L08 – New Techniques to Increase Efficiency with PanelView Plus 6 Applications: Learn how new features in PanelView Plus 6/FactoryTalk View Machine Edition can help reduce your HMI development time, while making your applications more secure. This hands-on lab will focus on using global objects, leveraging parameters and faceplates, and extending functionality with ActiveX controls. Customers interested in remote connectivity to their HMI application will also benefit from a section of this lab dedicated to FactoryTalk ViewPoint v2.0, featuring a new tag write capability.

L11 – Drive Programming with the New PowerFlex 520-Series AC Drive: Learn how to quickly and easily configure PowerFlex 525 AC drives. From the built-in human interface module (HIM), to Connected Components Workbench or the Studio 5000 environment, we provide you with powerful, intuitive tools to help enhance your user experience and reduce your development time so you can deliver machines faster and more efficiently. Finally see how automatic device configuration can save valuable time to get your machines back on line faster.

L13 – Reducing Machinery Safety System Development Time Using Safety Automation Builder: In this session, you'll learn how to dramatically reduce development and deployment time of machinery safety systems using the Safety Automation Builder (SAB) configuration tool. SAB facilitates the planning of safety systems, helping you lay out the machine safety hazards and access points, define the appropriate safety functions, select products to achieve the required safety performance level (PL) according to EN ISO 13849-1, create SISTEMA projects for analysis of all Safety Functions, and create a bill of material.

L14 – Integrated Motion on EtherNet/IP: Learn how to configure, program and commission a CompactLogix™ 5370 controller with integrated motion on EtherNet/IP using the new Kinetix 5500 servo drives.

L16 – Introduction to the PlantPAx Process Automation System for Operations and System Engineering: This two part lab examines the PlantPAx System within a simulated plant environment through the eyes of an operator OR system engineer. As an operator, learn about navigating and interfacing with the system in a utilities and batch area. As an engineer, learn how to execute simple configuration changes and add a new control strategy using the PlantPAx Library. This session is ideal for those seeking basic familiarity with the PlantPAx system.

L20 – Solve Your Application Challenges with New Sensing Solutions: In this session attendees will use the latest Allen-Bradley® sensing technologies to solve a variety of challenging applications. We will also introduce the Rockwell Automation Ethernet strategy below, which utilizes IO-Link enabled technology to provide seamless visibility of field devices through Integrated Architecture from Rockwell Automation. This hands-on lab includes:

- Background Suppression: Detect dark targets on light background
- Clear Object Detection: Sense a clear label on a bottle and detect clear films
- Registration Control: Detect different color marks on various backgrounds
- True Color Recognition: Differentiate between colors (e.g. sorting green objects from blue objects)
- Distance Measurement: Using long-distance laser measurement and ultrasonic sensing for tension control
- Small Object Detection: Apply fork sensors and fiber optics

L21 – Introduction to the Guardmaster 440C-CR30 Software Configurable Safety Relay: Learn how to use the newest safety logic device from Rockwell Automation – the Guardmaster 440C-CR30 Software Configurable Safety Relay. The CR30 is configured with a simple, intelligent function-block editor in the free Connected Component Workbench software package. In this lab you will learn how to use the configuration software and how to take advantage of several of the key features, including:

- Support of the 2080 4 input/4 output plug-in module, enabling easy expansion of I/O for standard signals, such as resets, muting sensors, and auxiliary outputs, all without expanding the device footprint or using the local safety rated I/O.
- Support of Single Wire Safety (SWS) inputs and outputs for simple integration with GSR safety relays.
- Direct serial connection to a PanelView Component for visualization of status information, thus simplifying troubleshooting of the safety system.

L24 – 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.

L29 – 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, such as the Stratix 5700,™ to optimize your plant network. A prior understanding of general Ethernet concepts is recommended for attendees.

For additional information visit: ***http://www.rockwellautomation.com/raotm/greensboro***

T01 – Survive the Maintenance Apocalypse: Today there are over 10 million unfilled manufacturing jobs due to skill gaps. Maintenance and engineering employees are retiring at a rate faster than those entering the workforce. Companies are expected to spend more than $3.7 trillion on new technology in 2013 alone. These trends are leaving those responsible for supporting and managing automation technology with fewer skilled resources, supporting larger and more sophisticated systems, with ever-increasing productivity goals. Learn how to leverage service agreements with guaranteed response times to identify your biggest risks, create a plan to manage them and improve your organization's chances of success.

T04 – Health Is Wealth – The Importance of Remote Monitoring: Between 2010 and 2012, the cost per hour of downtime increased by an average of 65%. Do you have a plan to prevent these costly catastrophes? Learn how remote monitoring of your automation assets can help keep your line running, improve productivity and optimize maintenance efforts.

T07 – Achieving a Higher Level of Maintenance and Reliability to Help You Increase Uptime: When a critical asset in a highly complex production system fails without warning, the cost in damage and downtime can be high, not to mention the potential risk to personnel and the environment. Asset reliability can be a competitive business differentiator which causes many organizations to rethink how they can leverage existing resources to improve the performance of their critical assets. Attend this session to learn how Rockwell Automation Reliability Services can help prevent and predict unplanned downtime.

T08 – Increasing Software Development Efficiency Using the Integrated Architecture application Tools: Learn about new and existing Integrated Architecture tools that can speed implementation of your control system in all phases of the project. From videos to manuals to simple software applications, these tools help you understand, plan and configure an Integrated Architecture System.

T14 – Accelerate Your Small Machine Design with Connected Component Solutions: Learn how to optimize your stand-alone machine designs by taking advantage of the Connected Components Accelerator Toolkit pre-written BOMs, CAD, Logic and HMI design examples that provide the base design structure, so you can focus on making your machine more competitive. This includes PID control and solar tracking applications. Add functionality to Micro800 Controller, such as analog or serial ports, without expanding the control panel footprint by leveraging plug-in modules. The free single software package, Connected Components Workbench, reduces initial time to set-up controls between multiple devices.

T29 – Industrial Demilitarized Zone Design Principles: There are many organizations and standards bodies that recommend separating the enterprise zone from the industrial zones by utilizing an industrial demilitarized zone (iDMZ). This session will describe the basic principles and strategies of designing an iDMZ to separate these two zones. A prior understanding of general Ethernet concepts session is recommended.

T46 – Global Short Circuit Current Rating Solutions: This session will demonstrate how to use the new line-to-load web-based tool to determine component short circuit current ratings, and provide the test summaries for circuit breaker and fused component solutions. The session will cover applications through 690V, with high-coordination performance.

T51 – PlantPAx Process Automation System Overview: Learn about the Rockwell Automation distributed control system. This session provides an overview of the PlantPAx Process Automation System capabilities including high availability, batch and sequencing, device integration, and design and operations productivity. This session is ideal for those who need a basic understanding of the system.

T58 – Strategies and Tools for Migrating Legacy Distributed Control Systems (DCSs): Diminishing support of legacy DCSs and today's continuous optimization and innovation demands are leading users to replace legacy DCS system. This session will explore the scope of available tools, review well developed project plans, and discuss the benefits of migrating to the PlantPAx system. Gain insight into best practices to follow whether you're considering a phased, rip and replace, or multi-site project.

T64 – Machinery Safety System Selection and Development: Following a risk assessment identifying hazards to be mitigated, suitable methods of safeguarding measures to meet machinery safety standards must be designed and implemented. Safety automation technologies are usually deployed including inputs, logic devices, and outputs to perform a specific safety function. This session will cover safety function design, including tools to expedite and document the process. Ideally, we recommend attending "Machinery Safety System Development and Configuration Tools Overview" workshop prior to this session.

T75 – Lock Out Tag Out (LOTO) – More Than Just Locking Out Energy Sources: Many items are involved/required of a LOTO Program. Attend this session to understand the regulatory requirements, along with the five required components of a LOTO Program.

T79 – Software-based, Continuous Emissions Monitoring Systems for Reporting and Optimization: Software CEM® utilizes powerful analytic models of the process and emission sources with real-time validation to provide highly accurate, predictive emission values at half the costs of traditional sensors. Learn how this technology can be applied to gas turbines with SCRs boilers and other combustion/ burner units in a variety of industries including marine.

T81 – Protecting Your Architecture Investment through Rockwell Automation Power Quality Solutions: Power irregularities can be extremely costly for customers. Learn how Rockwell Automation Power Quality solutions – Allen-Bradley uninterruptible power supplies (UPSs) and new Allen-Bradley power quality products including the DySC Dynamic Sag Corrector, i-Sense voltage monitoring and the i-Grid® monitoring network – can help leverage and protect your Integrated Architecture investment and improve uptime in your facility.

T83 – Energy Monitoring and Control with Rockwell Automation Energy Intelligence Portfolio: The focus of this session will be the new FactoryTalk Energy Intelligence software portfolio that can provide a flexible decision support tool built on a premier ability to manage, visualize, and analyze system-wide energy data. This session will also touch upon the Allen-Bradley power monitors and how they are used to collect energy information.

T84 – Drive Productivity with the Versatile Low Voltage PowerFlex AC Drive Portfolio: See today's family of low voltage PowerFlex AC drives and how this portfolio has been designed with your productivity in mind. The broad range of control modes fits virtually any motor control requirement, while the combination of features, options and packaging provides application and installation versatility. Add in simplified programming and configuration – along with safety features designed to not only protect personnel and assets but also reduce downtime – and you'll find there's a PowerFlex AC drive solution to meet your application demands.

T85 – Intelligent Motor Control Using an Integrated EtherNet/IP Network: This session will focus on the advantages of the Intelligent Motor Control portfolio. See a demonstration of how using an integrated EtherNet/IP network for integration into plant control systems can help reduce time to conigure and deliver machines, provide improved personnel safety, plant availability and energy efficiency.

Technical Sessions

T96 – Using Manufacturing Intelligence to Provide Information for Better Business Decisions: Plant floor systems generate valuable data virtually every second in a production cycle. Readily accessing and sharing this information produces tangible value for many companies who have leveraged the benefits of Manufacturing Intelligence. Learn how to increase the value of your Rockwell Automation systems and/or third-party systems by including our Manufacturing Intelligence capabilities.

T101 – Understanding Medium Voltage AC Drives: This session will focus on understanding the Allen-Bradley PowerFlex 7000 Medium voltage drives. Learn how Direct to Drive technology can reduce the cost, size and weight of your medium voltage drive system. In addition, learn how the added benefits of energy savings, low harmonics and reduced system complexity can maximize uptime and increase system efficiency to lower operational costs.

T102 – Understanding the Standards Surrounding Arc Flash Hazards and Arc Resistant Equipment: Uncover the "how-to" of implementing arc resistant equipment within typical industrial or commercial facilities. This workshop offers insight into several practical aspects of procuring and applying arc resistant equipment including NFPA 70E highlights, arc flash basics, a review of arc resistant equipment and arc assessment services.

CT200 – Variable Frequency Drive Cable – Essential or Overkill: Variable Frequency Drive (VFD) cables emerged in the 1990s to help minimize operational issues with VFD systems. With the incorporation of Insulated Gate Bipolar Transistors (IGBTs) into inverters, switching speeds have increased by nearly two orders of magnitude from what they were in earlier Silicon Controlled Rectifier (SCR) and Gate Turn-off Thyristor (GTO) technology drives. This has caused a significant increase in the high frequency information output from the drive inverters. In some installations, traditional power cables had issues handling these high frequency signals leading to system problems. *Presented by General Cable.*

CT201 – Tools and Best Practices for Converting PLC-5 and SLC-500 to the Logix Platform: Customers are facing the need to upgrade their legacy PLC-5 and SLC system. This session is designed to show you the tools available to bring those systems forward. Integrated Architecture Builder is a tool to develop new layouts based on your legacy system. It can also be used to determine the appropriateness of a phased migration versus a full system replacement. The PLC-5/SLC Translation Utility takes over your RSLogix 5/500 program and converts it to an RSLogix 5000 project. Once the project is converted we will cover a few tips to help complete conversion.

CT202 – 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.

CT203 – VFDs, How they Work and How They Interact with Your Power Distribution System: How to achieve a reliable VFD installation. This session will review basic operation of adjustable speed drives and how they interact with your plant power system. It will also provide insights on how VFDs are affected by events on your power system, and what can be done to create a reliable VFD installation. Touching on power harmonics, transient voltage disturbances and system grounding.

CT204 – Advanced Process Control Techniques: PlantPAx advanced controls and optimization help improve production performance by decreasing costs and increasing production, yields and product quality. This scalable portfolio addresses the full spectrum of process control and optimization for the batch, hybrid, and continuous production processes, including regulatory control, model-predictive control and dynamic plant-wide optimization. Learn when to use and how to implement these advanced process control techniques.

CT205 – Adding Adaptive Mobile Computing to Your Factory Floor: Imagine a brand new factory floor computing system that allows you to view your existing Windows applications from iPhones, iPads and Android devices. Imagine this same system delivering applications and information to you based upon your skill set, proximity to a process, or ability to handle an event such as an alarm. Now envision adding this functionality to your existing factory floor computing systems with no impact on production. You've just entered the world of Adaptive Mobile Computing with "Relevance" – the latest client management software for the factory floor brought to you by the developers of ThinManager. Join us at this session and experience this "Relevance" through a live demonstration depicting the factory of the future. *Presented by ACP.*

CT206 – The Internet of Things: The convergence of new technologies that securely connect plant information with enterprise systems can bring greater productivity, better utilization of assets and improved decision-making to industrial companies. By bridging the gap between factory-level systems and enterprise systems, Rockwell Automation and Cisco can show how the Connected Enterprise offers ease of use, lower total cost of ownership and improved operations. *Presented by Cisco.*

CT207 – Machine Safety System Calculations using SISTEMA: This session will discuss how to utilize the globally recognized Safety SISTEMA software tool and ensure your safety circuit and safety products are designed to meet the risk.

CT208 – Automation Solutions for the Water and Wastewater Industry: Water industry professionals around the world face major challenges: tighter water quality standards and rising labor, operating and maintenance costs; increased security and stringent government regulations; system capacity expansion with increased equipment reliability; and aging control and distribution systems which require upgrades. This presentation will cover how to improve plant wide operations by implementing a single solution for automation and information that spans the wells, raw water, processing, disinfection and distribution systems.

CT209 – Recommended Solutions by Rockwell Automation and Cisco for Scalable and Secure Remote Access by Support Groups, OEMs and Partners: This presentation highlights a range of solutions recommended by Rockwell Automation and Cisco for scalable secure remote access. Enable remote support groups, OEMs, and partners to monitor, manage, and configure plant-wide automation equipment and machinery via secure remote access. This presentation will detail best practices to balance the remote access needs of industrial applications with the secure access policies and requirements of IT.

CT260 – Safety First: Putting up Your Guard with Rockwell Automation Safety Technology: Learn how Polytron applies machine safety best practices to help a major consumer packaged goods company implement its strategic risk assessment plan using Rockwell Automation safety technology to mitigate risk. The client also relied on Polytron's focused training to ensure continuity of performance for workforce safety in updated machine operation. *Presented by Polytron.*

CT261 – Wastewater Nutrient Removal – Advanced Analytical Technology: In this presentation we will discuss wastewater treatment optimization, specifically focusing on the activated sludge treatment aeration process. We will outline available process technologies and present an application case study that clearly demonstrates the benefits and costs savings by applying analytical measurement technologies to control the process. *Presented by Carotek.*

CT262 – VFD-to-Motor Installation Considerations: Modern low-voltage VFDs utilize very high-speed power switching, which demands greater attention to details to achieve reliable system installation. Topics covered include reflected wave and its impact on motor/cable installation, motor grounding, cable charging and motor bearing circulatory currents.

CT263 – Life Sciences SCADA Implementation with PlantPAx: In the food and pharmaceutical industries, the typical production line can be multiple OEM machines or skids linked together in a configuration that efficiently produces the product from raw materials to a finished product. OEM equipment typically has its own control system designed and programmed by the original equipment manufacturer. To optimize these production lines over time it is fundamental that a SCADA system and data historian be put in place to manage product recipes, line coordination, and data historization for performance trending. In our presentation, we will explain project approaches for managing these SCADA projects utilizing Rockwell Software.® We will discuss real world case studies and provide a "user group" approach on the particulars and recommendations of just how to implement Rockwell Automation FactoryTalk View, FactoryTalk Historian, FactoryTalk Vantagepoint, and FactoryTalk Batch. This will include automation standards, documentation requirements, OEM control system specifications, security access procedures, network architectures and start-up and commissioning practices. *Presented by Avid Solutions.*

CT264 – The Need for Speed – Best Practices in Deploying EtherNet/IP Networks: Whether updating existing systems or planning plant expansions, the amount of development and implementation rework time can be costly. A "pre-built" building block approach can help you reap the value of a Connected Enterprise and reduce deployment time by up to 75%. Learn how deploying an Allen-Bradley Stratix 8000™ or Stratix 5700 in a validated, pretested integrated zone system enables your EtherNet/IP network architecture reducing downtime and cost. *Presented by Panduit.*

CT265 – Design Considerations for a High Availability PlantPAx System Using 1715 Redundant I/O: A large pharmaceutical plant in the southeast is required to have chilled water system online 24/7/365 to maintain product quality. Additionally, they required additional visibility into the process to maintain the high availability. Will discuss methodology to design system to meet project requirements (fault tolerance, scheduling, downtime, costs, future expandability, etc.). This session will review simplex redundancy versus dual redundancy with cost/benefit analysis for each, and discuss architecture, main project challenges and final designed solution to meet critical infrastructure requirements. *Presented by Industrial Automated Systems.*

CT266 – Virtualization for Industrial Applications: Virtualization has dramatically changed how computer infrastructure is deployed, managed and maintained. In the enterprise IT space, virtualization is already used extensively. In 2013 over 65% of applications were deployed on a virtualized infrastructure. Today, virtualization is rapidly being adopted by industrial automation. This session will describe server virtualization and the many benefits that customers are achieving. The software and hardware requirements will be covered, including HA clustering and fault-tolerant servers. An example project will show how hardware sizing is done. *Presented by Stratus Technologies.*

CT267 – Improving Operational Efficiency with PharmaSuite MES: A pharmaceutical company beginning stage-three trials needed to optimize their business by minimizing paper records and improving compliance. This presentation will discuss the application approach to model processes into ISA-88 structures and implement FactoryTalk PharmaSuite MES as an out-of-the-box software solution.The case study shows that Automation and IT solutions have become an important means for improving business in the pharmaceutical industry. The installed MES system has increased efficiency by streamlining heavy paper-based processes and reduced cost, and has allowed users to create a robust and less error-prone process. *Presented by NNE Pharmaplan.*

CT268 – FactoryTalk Batch System Implementation Strategy: This session will include descriptions of the benefits of defining your plant using module classes, phases, and recipes and how it relates to code reuse, issue propagation, process repeatability and campaign management. Topics will include classes and instances of control and equipment modules; process actions defined as phase logic; managing batch logic including run, hold, restart, stop, abort logic; and recipe management. *Presented by Rovisys.*

CT269 – Migrate Your Legacy Remote I/O Systems Over Multiple Phases: In this presentation we will discuss multiple phased migrations of legacy I/O systems including controllers, I/O racks, drives and HMIs. One example we will discuss is running EtherNet/IP and Remote I/O data simultaneously over existing Blue Hose cable using ProSoft Technology's industrial media converters. *Presented by ProSoft.*

CT270 – Tools and Best Practices for Converting Legacy PanelView Units to the PanelView Plus 6 Platform: Customers are facing the need to migrate their existing Standard PanelViews to PanelView Plus 6. In this session we will highlight a migration publication that helps you select the right PanelView Plus 6. We will also take an existing PanelBuilder32 project and import it into FactoryTalk View Studio. Then we will cover the steps (with helpful tips and tricks) necessary to complete the conversion.

CT271 – Fundamentals of Network Resiliency and Redundancy for EtherNet/IP: Keep your network availability high through effective use of resiliency protocols and redundant topologies. This session reviews design recommendations developed by Rockwell Automation and Cisco Systems.

CT272 – New Robot Safety Standards – Understand and Apply Before the January 1 Due Date: This session will focus on the recent changes and requirements for robotic safety. System Integrators and OEMs are required to follow and understand these global standards in order to be compliant.

CT273 – Controlling your Bottom Line with Energy Management: Learn about solutions created with Rockwell Automation and Encompass Partner products that deliver power monitoring results. *Presented by Concept Systems.*

Plan Your Day

Hands-on Labs are 90 minutes and are offered at 8 AM, 10 AM, 1 PM and 3 PM.

Technical Sessions run for 60 minutes and are offered at 8:30 AM, 10 AM, 11 AM, 1 PM, 2 PM and 3:30 PM.

	WEDNESDAY, JUNE 4		THURSDAY, JUNE 5	
7 AM	Registration and Visit Show Floor		Registration and Visit Show Floor	
8 AM		ROOM		ROOM
8:30 AM		ROOM		ROOM
9:30 AM	Break – Visit Rockwell Automation and PartnerNetwork Exhibits		Break – Visit Rockwell Automation and PartnerNetwork Exhibits	
10 AM		ROOM		ROOM
11 AM		ROOM		ROOM
12 PM	Complimentary Lunch for Attendees: 11:30 AM – 1 PM on the Exhibit Floor		Complimentary Lunch for Attendees: 12 PM – 1 PM on the Exhibit Floor	
1 PM		ROOM		ROOM
2 PM		ROOM		ROOM
3 PM		ROOM		ROOM
3:30 PM		ROOM		ROOM

This ***FREE*** educational event features in-depth hands-on labs and technical sessions along with a showcase of product exhibits from Rockwell Automation and our Partners.

AUTOMATION FAIR® 2014

NOVEMBER 19-20, 2014 • ANAHEIM CONVENTION CENTER • ANAHEIM, CA

www.automationfair.com

Rockwell Automation Automation Fair® ANAHEIM 2014

North America's Premier Automation Event

Learn about smart, safe, sustainable automation solutions that optimize production and drive competitive advantage during this year's Automation Fair event.

- Attend industry forums presented by experienced leaders
- Network with peers and subject matter experts
- Learn from technical sessions, hands-on labs and workshops
- Explore the latest technology from Rockwell Automation and our partners

Mark your calendars for Automation Fair. It's an investment that will pay off for you and your business.

Contact your local Allen-Bradley distributor or Rockwell Automation representative for details

Connect with us:

Allen-Bradley • Rockwell Software

Rockwell Automation

Rockwell Automation PartnerNetwork™

For a current listing of participating PartnerNetwork™ members see the registration site at:

http://rockwellautomation.com/raotm/greensboro

Sponsored by:

ES&E Electric Supply & Equipment Co.

McNAUGHTON-McKAY ELECTRIC COMPANY YOUR ELECTRICAL CONNECTION

ECK Supply Co.

Williams Supply, Inc. Employee Owned

Rexel

EECO Electrical Equipment Co

EESCO ENGLEWOOD ELECTRICAL SUPPLY A Division of WESCO Distribution, Inc.

Rockwell Automation on the move™

June 4-5, 2014
Joseph S. Koury Convention Center
3121 High Point Road
Greensboro, NC 27407
Contact: Michelle Keough, Rockwell Automation at (704) 665-6019
or email: tag@ra.rockwell.com

For additional information visit:
http://www.rockwellautomation.com/raotm/greensboro

Publication RAOTM-BR106A-EN-P – April 2014