Program Guide

August 23-24, 2017 – 7:00 AM to 5:00 PM

Columbus Convention Center
400 N. High Street
Columbus, Ohio

Rockwell Automation
on the **move**

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THINK.
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Rockwell Automation

Rockwell Automation
on the move

Welcome to the Rockwell Automation on the Move™ event. This two-day event allows you to discover new manufacturing solutions through technical sessions and hands-on labs. With solutions for end users, equipment builders, system integrators and more, this event is a great educational opportunity for you and your company.

At this year's event you will discover The Connected Enterprise through linking intelligent assets and optimizing industrial operations to make you more globally competitive and productive.

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GET ANSWERS

30 TECHNICAL SESSIONS
60-minute technical sessions. Hear from industry experts discussing ways to modernize your operations and streamline processes.

19 HANDS-ON LABS
90-minute labs that allow you to work hands on with Rockwell Automation products.

GET INSPIRED

35+ EXHIBITORS

NETWORK
With industry application and technology leaders

EARN HOURS

EARN PROFESSIONAL DEVELOPMENT HOURS (PDH)
Attend classes to get certificates of completion

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For more information, contact your local distributor or Chris Vereb at cevereb@ra.rockwell.com or (330) 486-6690.

Rockwell Automation
on the move

Hands-on Labs

WEDNESDAY, AUGUST 23

	A110	A111	A112	A113	A114
7:00 AM	**Registration and Visit Show Floor**				
8:00 AM	L12 – FactoryTalk® View Site Edition and FactoryTalk ViewPoint: Introductory Lab	L02 – Applying Basic EtherNet/IP Features in Converged Plantwide Ethernet Architectures	L16 – Studio 5000® and Logix Basics Lab	L18 – PowerFlex® Drives Configuration and Programming	L19 – Integrated Motion on EtherNet/IP
9:30 AM	L11 – Integrated Motion on EtherNet/IP: High Performance Architecture Lab	L08 – Sensors for Your Architecture with IO-Link	L04 – FactoryTalk® View Machine Edition and PanelView™ Plus: Introductory Lab	L23 – Modernization from Legacy to Contemporary Systems	L15 – Tools that Simplify Product Sizing and Selection
11:00 AM	**Lunch and Visit Show Floor**				
1:00 PM	L01 – Developing Safety Applications Using the GuardLogix® Integrated Safety Controller Platform	L03 – Applying Advanced EtherNet/IP Features in Converged Plantwide Ethernet Architectures	L06 – Studio 5000 View Designer® Featured on The PanelView™ 5000 Graphic Terminals	L22 – Deploying PlantPAx to Thin Clients with ThinManager	L09 – Developing Safety Applications Using Guardmaster® 440C-CR30 Configurable Safety Relay
2:30 PM	**Visit Show Floor**				
3:00 PM	L14 – Introduction to PlantPAx® Process Control System for Operations and System Engineering	L20 – Solve Your Application Challenges with New Sensing Solutions	L17 – Studio 5000® and Logix Advanced Lab	L07 – Micro800® PLC Programming with Connected Components Workbench™ Software	
4:30 PM	**Visit Show Floor**				

WEDNESDAY, AUGUST 23

	A210	A211	A212	A213	A214
7:00 AM	Registration and Visit Show Floor				
8:00 AM	T03 – New Security Features Help Reduce Risk in Your Industrial Control System	T54 – Understanding SCCR, Selectivity and Current Limiting Applications with Molded Case Circuit Breakers	T24 – Improving Productivity Using Contemporary Safety Designs	T107 – Installation Considerations for AC drives	CT393 – The Value of the Rockwell Automation® Smart Machine Solution
9:00 AM	T30 – What's New in Visualization	CT394 – Making a Case for Inclusion/Diversity in Business Today	T56 – Safety System Development and Configuration Tools Overview	T100 – Mobility and Portability with Today's Rockwell Software®	CT390 – Cyber Security Trends and Strategies for More Resilient Plant Control Systems
10:00 AM	T02 – Design Considerations for Robust EtherNet/IP Networking	T28 – Introduction to GuardLogix® Integrated Safety System	T32 – What's New in PowerFlex® Drives	T101 – Integrated Architecture with ThinManager: Providing a Path to Your Plant's Thin Client Future	CT391 – Leveraging Ethernet and Process Control Technology Advancements to Extend Mechanical Equipment Life
11:00 AM	Lunch and Visit Floor Show				
1:00 PM	T29 – What's New in Logix	T31 – What's New in Kinetix® Motion Control	T65 – High Performance Architecture: Introduction and Demonstration	T102 – Taking the Integrated Architecture Mobile Using ThinManager Relevance	CT392 – Using Mobile Tech and FactoryTalk® Knowledge to Manage Assets and Inspections in Water/Wastewater Operations
2:00 PM	T57 – Asset Intelligence – Transforming the Value of Maintenance and Storeroom	T01 – Data Management and Reporting Made Simple	T67 – What's New in Studio 5000®	T83 – Easing the Deployment of a Converged Plantwide Ethernet (CPwE) Compliant Architecture	CT396 – Smart Machines and Equipment – Delivering the Connected W/WWT Plant
3:00 PM	T140 – Driving Positive Business Outcomes with Data and Analytics	T22 – Arc Flash Hazards and Arc Resistant Equipment – Understanding Standards and Solutions	T76 – Discovering the Functionality of Rockwell Automation® Library of Process Objects	T74 – Process Safety and Critical Control: What Solution Best Meets Your Needs	T04 – Wireless Design Considerations for Industrial Applications
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Hands-on Labs

THURSDAY, AUGUST 24

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Hands-on Labs

L01 – Developing Safety Applications Using the GuardLogix® Integrated Safety Controller Platform: In this lab, learn how GuardLogix® Integrated Safety Systems support intermediate level to complex safety applications – using a single controller and programming environment for safety, discrete, motion and drive functions, and with seamless connectivity to plantwide information systems.

L02 – Applying Basic EtherNet/IP Features in Converged Plantwide Ethernet Architectures: EtherNet/IP enables both seamless plantwide information and convergence of industrial and non-industrial network traffic, while maintaining real-time communication for control applications. This hands-on lab covers various techniques, best practices, software and products using EtherNet/IP with Stratix® switches.

L03 – Applying Advanced EtherNet/IP Features in Converged Plantwide Ethernet Architectures: EtherNet/IP enables both seamless plantwide information sharing and convergence of industrial and non-industrial network traffic, while maintaining real-time communication for control applications. This hands-on lab covers various techniques, best practices, software and products using EtherNet/IP. It demonstrates Network Address Translation (NAT) in Layer 2 and Layer 3 architectures, VLAN segmentation and Connected Routing. Prior understanding of general Ethernet concepts is recommended.

L04 – FactoryTalk® View Machine Edition and PanelView™ Plus: Introductory Lab: This hands-on lab focuses on basic FactoryTalk® View Machine Edition concepts for new users. Topics include creating an application, working with displays, global objects, and tags, using parameters, testing and running the application, and language switching. See how features like search and replace tag and text, tag cross-reference, and more, can help you to get more work done in less time.

L06 – Studio 5000 View Designer® Featured on the PanelView™ 5000 Graphic Terminals: Learn how to increase productivity with the new Studio 5000 View Designer™ software and PanelView™ 5500. This lab will introduce you to topics such as setting up a project, creating screens, animating graphic elements, setting up navigation, setting up basic security and downloading to a terminal. The lab will also cover new capabilities like language switching and Add-on Graphics (AOG).

L07 – Micro800® PLC Programming with Connected Components Workbench™ Software: This self-paced lab teaches how easy it is to program and configure a small standalone machine using the latest Connected Components Workbench™ software. The control solution will consist of a Micro800® Programmable Logic Controller (PLC), a PowerFlex® Drive, and a PanelView™ 800 HMI. Programming of advanced HMI and PLC features, including TCP/UDP sockets, is also available.

L08 – Sensors for Your Architecture with IO-Link: In this session, we will introduce smart Allen-Bradley® sensors with IO-Link technology that help enable The Connected Enterprise and provide seamless visibility of data by leveraging the Rockwell Automation® Integrated Architecture.® Attendees will experiment with these new Allen-Bradley® sensing technologies and find out how they can use IO-Link-specific features to solve sample applications.

L09 – Developing Safety Applications Using Guardmaster® 440C-CR30 Configurable Safety Relay: You'll learn to use the Guardmaster® 440C-CR30 Configurable Safety Relay to support small to intermediate safety applications. Built to meet PLe/SIL 3 requirements, featuring 22 embedded safety I/O and a USB port, the 440C-CR30 is configured with Connected Components Workbench™ software. An EtherNet/IP module can communicate diagnostic information to Logix controllers.

L11 – Integrated Motion on EtherNet/IP: High Performance Architecture Lab: This hands-on lab showcases how our new high performance architecture takes integrated motion on EtherNet/IP to the next level. This session will be based on the new ControlLogix® 5580 controller, 5069 Compact I/O™ and Kinetix® 5700 servo drives and demonstrates how they combine to boost motion performance to unprecedented levels.

L12 – FactoryTalk® View Site Edition and FactoryTalk ViewPoint: Introductory Lab: If you are new to FactoryTalk® View Site Edition and FactoryTalk ViewPoint, this hands-on lab allows you to learn about the basic capabilities and features of a FactoryTalk View SE application for both desktop and mobile. You will build a simple application from the beginning. Topics include creating an application, adding displays, working with tags and animations, basic alarming, trending, and mobility. This lab will give you a solid understanding of how a View SE HMI application works, how you can extend it mobile devices.

L14 – Introduction to PlantPAx® Process Control System for Operations and System Engineering: This 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 key system functions in a utilities and batch area. As an engineer, execute simple configuration changes and add a new control strategy using the Rockwell Automation® Library of Process Objects. This session provides basic familiarity with the PlantPAx® system.

L15 – Tools that Simplify Product Sizing and Selection: Develop basic competency in using Integrated Architecture® Builder (IAB), Motion Analyzer (MA) and ProposalWorks™ (PW) to develop valid bills of material for projects and output reports. Attendees will learn how to configure systems in IAB, size a drive in MA and assemble a proposal/quote in ProposalWorks.™

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L16 – Studio 5000® and Logix Basics Lab: Are you new to Logix programming or want a quick refresher on the basics? This session will provide an overview of the core capabilities that are offered in Studio 5000® and highlight the importance of good design practices. Mastering these fundamentals will ensure a good design and prepare you for the advanced session.

L17 – Studio 5000® and Logix Advanced Lab: So you've got the basics, now let's take it to the next level with this advanced Studio 5000® and Logix session. This pick and choose lab will allow you to explore topics of interest and quickly see how capabilities add the most value to your design. By the end of this session, you will be on your way to becoming an expert.

L18 – PowerFlex® Drives Configuration and Programming: Learn how to quickly and easily configure PowerFlex® AC drives. From the built-in human interface module, to Connected Components Workbench™ software or the Rockwell Software® Studio 5000® Logix Designer, 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 help save valuable time to get your machines back on line faster.

L19 – 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 and PowerFlex® 527 variable frequency drives.

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 below Ethernet strategy which utilizes IO-Link enabled technology to provide seamless visibility of field devices through the Rockwell Automation Integrated Architecture.™

This hands-on labs include:

• 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

• Distance measurement – use long distance laser measurement and ultrasonic sensing for tension control

• Small object detection – apply fork sensors and fiber optics

L22 – Deploying PlantPAx® to Thin Clients with ThinManager®: In this lab, attendees will discover how thin clients using remote desktop services can simplify the scaling, deployment and maintenance of a PlantPAx® System using FactoryTalk® View Site Edition. Learn how to extend these functionalities with the unique capabilities of ACP ThinManager.®

L23 – Modernization from Legacy to Contemporary Systems: Users of legacy control systems employing MicroLogix,™ SLC, and PLC-5® Controllers would benefit from attending this lab as it covers tips and tools that help when migrating to ControlLogix,® CompactLogix® and Micro800 families of controllers. Topics include Selection Tools, Bill of Material conversion, Code Translation tools, and other useful advice.

Technical Sessions

T01 – Data Management and Reporting Made Simple: The integration of control data (live and historical) with business systems is critical in today's manufacturing environment. The seamless integration and access of this data in a form that provides decision-making capabilities is crucial. Rockwell Automation helps deliver that seamless integration with the latest releases of FactoryTalk® Historian and VantagePoint® – featuring synchronized methodology for collecting, maintaining, and analyzing process data at each level of manufacturing operations.

T02 – Design Considerations for Robust EtherNet/IP Networking: Top considerations that are developed by Rockwell Automation and our partners to help you design and deploy a more scalable, robust, secure and future-ready EtherNet/IP network infrastructure. A prior understanding of general Ethernet concepts is recommended.

T03 – New Security Features Help Reduce Risk in Your Industrial Control System: Learn how you can reduce risk and enhance protection of your industrial control system against security threats. Discussion and demonstration will focus on practical recommendations for installing, commissioning and improving the security of an Integrated Architecture® including new capabilities in Stratix® security appliances and Logix controllers, and how to use FactoryTalk® Security to control user access to key assets and information.

T04 – Wireless Design Considerations for Industrial Applications: Industrial Automation and Control System (IACS) applications increasingly use wireless LANs that require reliable data transmission with low levels of latency and jitter. Deploying a wireless network requires thoughtful planning and design, as well as periodic monitoring to meet expectations for bandwidth, throughput, reliability and security.

T22 – Arc Flash Hazards and Arc Resistant Equipment – Understanding Standards and Solutions: 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 including the PowerFlex® 7000, and arc assessment services.

T24 – Improving Productivity Using Contemporary Safety Designs: Contemporary safety standards and designs provide for both safety and improved productivity with alternative means to traditional lock out/tag out procedures. This session will review these techniques including safe speed monitoring, safe direction, zone control, and others, as well as system diagnostics that reduce downtime.

T28 – Introduction to GuardLogix® Integrated Safety System: In this session, you'll be introduced to the GuardLogix® Integrated Safety System, supporting intermediate level to complex safety applications – using a single controller and programming environment for safety, discrete, motion, and drive functions, and with secure, seamless connectivity to plant-wide information systems.

T29 – What's New in Logix: Learn what's new in our Logix control platform. This session will cover advances in control and I/O platforms for high performance machine control.

T30 – What's New in Visualization: Discover new solutions that help improve productivity by expanding connectivity and enhancing design and maintenance tools. From machine-based operator interface to highly networked systems, this session will focus on what's new with the HMI and visualization hardware and software portfolio.

T31 – What's New in Kinetix® Motion Control: Learn what's new in our Kinetix® motion control platform. This session will review products and technologies for OEMs.

T32 – What's New in PowerFlex® Drives: Today's portfolio of PowerFlex® drives can do so much more than spin a motor. In this session, you will learn about the new PowerFlex® 755T drives, Integrated Safety options along with all the capabilities beyond motor speed and torque control of this versatile portfolio.

T54 – Understanding SCCR, Selectivity and Current Limiting Applications with Molded Case Circuit Breakers: Learn how recent additions to the Molded Case Circuit Breaker family and support tools help you calculate the SCCR of a panel. Understand how additional selectivity data will minimize selection time.

T56 – Safety System Development and Configuration Tools Overview: You'll learn to dramatically reduce safety system development time using the Rockwell Automation® suite of development tools. You'll be able to determine return on investment for safety projects, design safety functions and systems, select appropriate safety devices, and verify that your system meets global safety standards that are increasingly specified by manufacturers.

T57 – Asset Intelligence – Transforming the Value of Maintenance and Storeroom: Our world is moving faster with more information and work load than we can manage, so are you ready to get out of the chaos? Lets step through an MRO journey where you can act on Asset Intelligence to improve plant productivity; utilizing smart devices, reliability professionals and asset strategies.

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T65 – High Performance Architecture: Introduction and Demonstration: This session will introduce and demonstrate the capabilities of our new high performance architecture. Learn how to achieve significant performance improvements with the recent additions to our controller, networks, I/O and motion portfolios.

T67 – What's New in Studio 5000®: Attend this session to learn about Rockwell Software® Studio 5000,® our new automation engineering and design environment. The session will cover what Studio 5000® is, where it is going, and how it can help reduce your engineering time, reduce risk and increase your productivity.

T74 – Process Safety and Critical Control: What Solution Best Meets Your Needs: Choosing the correct safety solution to meet availability and safety requirements is a critical decision. In this session, we'll explore our process safety offerings from SIL 1 through SIL 3 to fail-safe, fault-tolerant and triple modular redundant. We have a broad selection of scalable options ideal for your application. Learn which option is best for you and how each helps improve efficiencies and performance.

T76 – Discovering the Functionality of Rockwell Automation® Library of Process Objects: The Library of Process Objects is a key ingredient for providing rich PlantPAx® DCS functionality with reliable performance. This overview of the Library includes new features along with a demonstration of use cases for several of the objects. The Library objects' capabilities and typical applications will be reviewed along with features and benefits for users. Upcoming developments to the Library will be discussed along with an opportunity for your input.

T83 – Easing the Deployment of a Converged Plantwide Ethernet (CPwE) Compliant Architecture: Learn how pre-engineered IT/OT networking packages can speed transition, reduce the risk and minimize the support burden of network and virtualization infrastructure that is required to enable The Connected Enterprise. This lecture includes an overview of the Converged Plantwide Ethernet (CPwE) design guidelines demonstrates new pre-engineered CPwE-compliant packages that help simplify industrial network infrastructure design and deployment.

T100 – Mobility and Portability with Today's Rockwell Software®: Bring your own device to work? Need to support mobile workers? Modern production and operations management solutions require various forms of access and analytics of their devices, machines and systems that can be delivered anywhere. In this session, see how Rockwell Software® products help accomplish these goals and help you become more productive while optimizing your production.

T101 – Integrated Architecture with ThinManager: Providing a Path to Your Plant's Thin Client Future: Discover how ACP's ThinManager can improve your FactoryTalk View SE and/or PlantPAx System deployments. ThinManager provides centralized management of the content deployed to your thin clients and the thin clients themselves. With ThinManager's legendary ease of use plant floor nirvana has never been so within reach!

T102 – Taking the Integrated Architecture Mobile Using ThinManager Relevance: "Access Anywhere" to plant floor applications can inspire more fear than confidence due to security and process safety implications. By incorporating the device location into the delivery equation you can easily deliver Integrated Architecture applications to a mobile device based on not only who you are but of equal importance where you are.

T107 – Installation Considerations for AC Drives: This session will focus on the installation considerations for variable frequency AC drives. Gain a better understanding on the fundamental practices and essential rules for drive installation that can help prevent problems down the road.

T140 – Driving Positive Business Outcomes with Data and Analytics: Digital transformation is becoming the leading way to remain competitive in the tightening global economic landscape. Rockwell Automation can help you gain critical insight into your operations and provide analytics for improvement initiatives. Learn about FactoryTalk TeamOne, FactoryTalk Analytics for Machines, and FactoryTalk Analytics for Devices – our new, innovative scalable analytics and operations management products that are designed to detect, digitize, analyze and communicate data from devices up to your enterprise. See how data from smart, connected industrial assets can be transformed into meaningful insights to drive positive business outcomes.

CT390 – Cyber Security Trends and Strategies for More Resilient Plant Control Systems: An executive order was enacted to have consistent cyber security measures for government. Governmental agencies are under pressure to raise emergency preparedness. Cyber-attacks are steadily on the rise. The water industry cannot afford to be on the defensive. Municipalities have reduced staffing levels and must leverage use of the latest process technology to improve efficiencies and meet operating budgets. At the same time they must have a plan to keep their process and IT systems safe in the face of these evolving control system threats.

CT391 – Leveraging Ethernet and Process Control Technology Advancements to Extend Mechanical Equipment Life: Today most municipalities struggle keeping up with the required maintenance of their critical assets. With communication technology advances and intelligence built into modern process control technologies the process equipment can present operation and maintenance personnel with a great deal of operational and diagnostic information. The AWWA believes that water utilities must adopt a proactive and sustainable approach to the management of their assets throughout the life cycle of the assets. Senate adoption of WRDA act of 2016 encourages municipalities to adopt "innovative technology" like condition monitoring of critical assets.

CT392 – Using Mobile Tech and FactoryTalk Knowledge to Manage Assets and Inspections in Water/Wastewater Operations: eRPortal's CMMS software suite leverages connectivity to FactoryTalk SCADA to give water/wastewater operations the ability to trigger corrective action, notifications and maintenance work orders based on machine conditions.

CT393 – The Value of the Rockwell Automation Smart Machine Solution: The relationship between OEM's and end users is evolving into a partnership for production. End users are expecting OEMs to help address their most pressing needs, including market competitiveness, workforce challenges, risk management and technology implementation. Creating differentiation is getting more and more difficult due to the growing challenges OEMs face today. The Rockwell Automation smart machine solution allows OEMs to provide added value beyond their machines.

CT394 – Making a Case for Inclusion/Diversity in Business Today: Amidst changing employee and customer demographics, diversity and inclusion efforts are vital to business success. Hear about the Rockwell Automation diversity and inclusion journey and how it's improving employee engagement and customer experience. Find out how diversity programs help drive business value and impact the future of your organization.

CT396 – Smart Machines and Equipment – Delivering the Connected W/WWT Plant: Equipment suppliers in the W/WWT industry are now delivering "SMART/CONNECTED" machines that allow their customers the benefit of improving plant availability and reliability and reducing operational costs. It allows them to comply with industry regulations, ensuring safe and secure access to their equipment.

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Notes

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