THE CONNECTED ENTERPRISE

Information is power. Helping our customers realize greater productivity and increased global competitiveness through The Connected Enterprise is a passion and priority for us at Rockwell Automation.

The Connected Enterprise is driven by the IT/OT convergence trend. It is enabled by our integrated control and information portfolio of products, services and solutions, and enhanced by the modern technologies associated with the Internet of Things. The Connected Enterprise is transforming the world of manufacturing and production. It will cause industrial automation to change more in the next ten years than in the past fifty. This change will deliver rapid value creation with an optimized plant and supply network, resulting in lower total cost of ownership, faster time to market, better asset utilization and improved enterprise risk management. The Connected Enterprise is about the transformation of data into actionable information, knowledge and wisdom; driving profound changes through all phases of the automation investment lifecycle — design, operation and maintenance. It enables faster and better decision making, exposes inefficiencies and sparks collaboration. An information-enabled Connected Enterprise is a more competitive enterprise. It creates tremendous opportunities for those taking advantage and great risks for those not preparing a strategic response.

I’d like to invite you to join us at the 2015 Automation Fair® in Chicago, where you will learn how to be successful in the journey to your Connected Enterprise. You will experience invaluable interactions with your industry peers and get an inside look at the newest and most advanced power, control and information solutions in the industry. You’ll also learn how to successfully leverage these state-of-the-art automation technologies in conjunction with the offerings from our industry-leading PartnerNetwork™ members.

In Chicago, our industry, application and technology experts will be ready to help you figure out what you can do to begin – or accelerate – your journey.

- Visit more than 150 exhibits from Rockwell Automation and its PartnerNetwork members to see the latest in automation and information solutions
- Elevate your expertise by participating in industry forums and technical sessions presented by experts from Rockwell Automation and our partners
- Expand your design, operational and maintenance skills with hands-on labs featuring The Connected Enterprise in action
- Preview the application of modern technologies such as secure networking, simulation and modeling, big data analytics, mobility and the cloud, the future of smart manufacturing and production

There is no better time than the present to learn and apply the most contemporary industrial automation and information solutions to machines, plants and production, and fully leverage the power of IT/OT convergence. On behalf of all of our dedicated employees across the globe, we look forward to seeing you in Chicago and helping you drive productivity, competitiveness and profitability throughout your enterprise.

Best regards,

Keith Nosbusch
ROCKWELL AUTOMATION EVENT MOBILE APP

Use the Rockwell Automation event mobile app to get even more out of the event! With the mobile app, you can:

• Customize your experience
• Browse schedules, speakers and sessions to create your daily schedule
• Network with other attendees by exchanging messages and arranging meetings
• Take session and overall event surveys
• View maps, event information and meal hours
• Join in the social media conversations and stay current on event news

Download the Rockwell Automation event mobile app to get the most from this year’s Automation Fair event.

Scan the QR code or search for the ROK Events app in your phone’s app store.

HOW TO REGISTER

Online registration opens in early August. For detailed information on how to register, visit www.automationfair.com.

If you register through your local distributor, you will receive an email bar code confirmation with instructions to pick up your badge at the show.

Need help with registration?

Call the Automation Fair event help line at 781.821.6733 or send an email to automationfair@thepulsenetwork.com.

MCCORMICK PLACE WEST

Wednesday, November 18 – 8 a.m. to 5:30 p.m.
Thursday, November 19 – 8 a.m. to 4 p.m.
PROCESS SOLUTIONS USER GROUP (PSUG) 2015 ANNUAL MEETING

November 16-17, 2015
McCormick Place West, Chicago, IL

Join us for our annual Process Solutions User Group (PSUG) meeting just prior to Automation Fair 2015. It’s a great way to exchange ideas with your peers, learn best practices and find solutions to your process application issues. Plus, the feedback you provide in the PSUG voting sessions helps determine the development priorities and technical roadmap for the PlantPAx® Process Automation System. Create an entire Process Week of activities by attending PSUG and Automation Fair.

Fee and registration
The $499 fee covers all sessions, labs, food and refreshments during the event, and a spectacular networking event on Monday evening at the Field Museum.

For more information or to register, visit us at: http://psug.rockwellautomation.com.

This Two-day Event will Feature:
• 20+ educational sessions with PDH hours/certificates awarded
• PlantPAx process automation system technology roadmap discussion
• Sessions to voice your prioritization on future developments to the PlantPAx system
• 24+ customers providing “best practices” in utilizing process solutions in various industry applications

AUTOMATION PERSPECTIVES 2015 GLOBAL MEDIA EVENT

November 17, 2015 – 8 a.m. to 1 p.m.
McCormick Place West, Chicago, IL

Automation Perspectives, the Rockwell Automation annual global media forum, explores leading news topics in the automation industry. The event allows members of the global trade media to hear first-hand about trends and issues facing manufacturers and producers across a variety of industries and geographies. Held prior to the opening of Automation Fair®, industry experts will discuss the benefits that a connected enterprise brings enterprise-wide and to machine builders. Media registration is scheduled to open in early August.

For more information on Automation Perspectives: www.automationfair.com/press
COLLABORATING FOR BUSINESS SUCCESS

When you choose Rockwell Automation, you also tap into the power of our PartnerNetwork™ program – a framework of well-managed relationships based on your needs. Our program provides you with access to a local, regional and global network of best-in-class companies, including authorized Allen-Bradley® Distributors, system integrators, OEMs, strategic alliances, Encompass™ reference products and licensed developers.

The keystone of our PartnerNetwork is the commitment each member company has to help streamline your supply chain, simplify project implementation and receive the best value from your automation investment. Customers who utilize the PartnerNetwork have consistently shared that they experience these three core values: simplify, collaborate, innovate. These values translate into automated solutions that are clearly differentiated from any other supplier.

Visit more than 100 partners from our PartnerNetwork at Automation Fair. They will be displaying their latest products and solutions.

EXHIBITING PARTNERNETWORK MEMBERS*

ACP ThinManager
AT&T
Advanced Energy
Aetna Group S.P.A.
Ametek
Apex Dynamics Inc.
Applied Control Engineering Inc.
ARPAC Corp.
Autodesk
Badger Meter
Barry-Wehmiller Design Group, Inc.
Belden
Block USA, Inc.
Bonitron
Brady Worldwide
Burkert Fluid Control Systems
Bussum by Eaton
Cisco Systems
Codan Robotics
Concept Systems Inc.
Control Station, Inc.
Control System Integrators Association – CSIA
Cybertrol Engineering LLC
Data-Linc Group
Datalogic Automation
DENSRO Robotics
Elwood Corporation — High Performance Motors Group
EN Engineering LLC
Endress+Hauser
Energy Control Technologies
EPLAN Software & Service
ePortal Software Group, LLC
ESTeem Wireless Moderns
eWON
Exlar Actuation Solutions
FANUC
Festo Corporation
FLIR Systems
Fluke Corp.
General Cable
Grace Engineered Products, Inc.
Hammond Power Solutions, Inc.
Hardy Process Solutions
Harmonic Drive, LLC
Helm Instrument Co. Inc.
Hermary Opto Electronics, Inc.
HMS Industrial Networks AB
Hubbell Electrical Systems
Imperix, Inc.
INCO Engineering S.R.O.
Interstates Control Systems Inc.
item North America
Itoh Denki USA, Inc.
Kepware Technologies
KTR
Laird
Leviton Mfg. Co.
LinMot USA, Inc.
LinTech
Littelfuse Inc.
Loccioni Group (AEA srl)
Marathon Motors
Matrix Technologies, Inc.
Mecco Marking & Traceability
Melfi Technologies Inc.
Mersen
Mesta Electronics Inc.
Metso Flow Control Inc.
Mettler-Toledo, LLC
Molex
Motorola Solutions
MTE Corporation
MTS Systems Corp., Senesore Division
Mynah Technologies LLC
Nidec - Shimpo Corporation
NJM Packaging
Nook Industries, Inc.
Numatics, Inc.
Outbound Technologies Inc.
Owl Computing Technologies, Inc.
Panasonic Corporation of North America
Panduit Corp.
Paper Converting Machine
Parker Pneumatic Division
Penair Equipment Protection (Hoffman™)
Pepperl+Fuchs, Inc.
Phoenix Digital Corporation
Point Eight Power Inc.
POSTAL FRABA Inc.
Post Glover Resistors
Powerit Solutions
Prime Controls LP
ProSoft Technology
Pyramid Solutions, Inc.
RACO Manufacturing & Engineering Co.
Revere Control Systems Inc.
RF iDeas, Inc.
Rice Lake Weighing Systems
Ross Controls
RoviSys Company
Roxtec Inc.
Schweitzer Engineering Laboratories Inc.
SeQuent
SMC Corporation
Softing (OLDI)
SolidWorks Corp.
Spectrum Controls Inc.
Stahlin Non-Metallic Enclosures
STOBER Drives, Inc.
Stone Technologies Inc.
Stratus Technologies
Systems Interface
SyTech Inc.
TCL, LLC
Teledyne DALSA
Thermo Systems LLC
Tissue Machinery Company SpA
Thermo Systems LLC
Ultras Electronics
Weiss North America Inc.
WIN-911 Software
WITTENSTEIN, Inc.
Wulftec International Inc.
Zebra Technologies Corporation
Zepelin Systems USA Inc.

*with names spelled exactly as they are listed online as of July 17, 2015.
THE CONNECTED ENTERPRISE

Accelerate Your Industrial Performance

Enabling innovations like the Internet of Things, network convergence, cloud computing, big data and analytics, virtualization and mobility are resulting in a new inflection point for how manufacturing and industrial organizations and their assets operate:

• From isolated operations to integrated, responsive ecosystems
• From automating labor to leveraging information
• From pockets of expertise to global collaboration
• From “open or secure” to “open AND secure”

At the same time, we’re ushering in a new generation of IT and operations professionals with different backgrounds and approaches to information technology and collaboration. This creates tremendous opportunities for those taking advantage and great competitive risks for those not preparing a strategic response.

Through The Connected Enterprise portfolio of products and services, Rockwell Automation helps manufacturers and industrial operators capitalize on the promise of an ever more connected world – in the form of higher manufacturing velocity, more agile response to changing conditions, reduced costs and lowered risk. We do it through a phased approach that allows you to leverage your existing automation assets while preparing for the next generation of integrated control and information innovations.

ROCKWELL AUTOMATION EXHIBITS

- Energy Management
- Essential Components
- Industrial IP Advantage
- Information Software
- Integrated Architecture
- Intelligent Motor Control
- Process Solutions
- Safety Solutions
- The Connected Enterprise Pavilion
- Solutions & Services

BOOTH OVERVIEWS

Energy Management

The optimization of energy resources in a production environment is something that not every organization has properly explored. When done right, the implementation of a strategic energy resource management plan can result in significant cost savings. The Energy Management booth introduces you to the planning, techniques and technology you’ll need to help improve the profitability of your organization.

Essential Components

Get the right components, at the right price, right when you need them. Allen-Bradley industrial components from Rockwell Automation provide the highest quality at a fair price, with intuitive product selection and fast delivery. Allen-Bradley components have been used by customers for more than 100 years and include Power, Connectivity, Logic, Sensing and Switching, Operator Interface and Safety products.
BOOTH OVERVIEWS

**Industrial IP Advantage**

*Booth 1340*

See how Internet Protocol (IP) is transforming operations in processing, machinery and remote operation. Also hear from experts about the latest trends of security, Internet of Things, and mobility with the Industrial IP Advantage – a community led by Cisco, Panduit and Rockwell Automation. Explore the new eLearning course that helps converge IT and OT engineers to drive better network design decisions.

**Information Software**

*Booth 1035*

See how Rockwell Software® enables The Connected Enterprise by turning data into decision-making information for increased productivity and profitability – from HMI to Manufacturing Intelligence and MES.

Access all this valuable information when and where you need it with mobile HMI and EMI Apps for any mobile device – timely, secure and actionable.

**Integrated Architecture™**

*Booth 1256*

Learn how the convergence of control and information is delivering the connected enterprise with smarter technology, enhanced productivity and a more secure environment.

Experience first hand the value of new control and information products, see real machines, and interact with digital demos. Also, take the opportunity to talk with subject matter experts on security, automation design productivity and motion control.

**Intelligent Motor Control**

*Booth 832*

Immediate access to information can be the key to your success. Visit the Intelligent Motor Control booth to learn how you can extend your architecture down to the device level. With seamless integration into the Integrated Architecture, a new level of intelligence is possible and with that information you can gain higher availability, energy savings and help protect personnel and assets.

**The Connected Enterprise Pavilion**

*Booth 945*

Are you hearing about the Industrial Internet of Things, Smart Manufacturing, Industrie 4.0 and the technology innovations around mobile, cloud computing and big data analytics that promise to redefine and create new value opportunities for smarter industrial operations? Is it all just marketing hype? Come see for yourself how The Connected Enterprise is delivering on these values today, and learn more about how these foundational innovations can help bring your own Connected Enterprise to life.

**Process Solutions**

*Booth 1078*

When you need the latest process control technologies, industry expertise, and global support capabilities, look to the Process Solutions available from Rockwell Automation. We offer a modern distributed control system for plant-wide control and lower total cost of ownership; scalable process safety systems for critical control applications; and model predictive control capabilities for process optimization and performance-driven manufacturing.

**Safety Solutions**

*Machinery • Process • Electrical*

Expertise, experience and the broadest technology offering in industry have established us as the world leader in industrial safety – helping reduce injuries and costs while improving productivity with functional safety solutions for process, machinery and electrical safety applications.

**Solutions & Services**

*Booth 856*

We know your primary goal is a profitable, safe and sustainable operation. Across industries and processes, our global solutions and services teams deliver repeatable, scalable and maintainable solutions – tailored to you and the unique challenges you face. From conceptualization and design, through engineering and installation, to post-commissioning support, we offer world-wide talent with industry- and technology-specific expertise to help you meet or exceed your business goals.
FORUMS

Automotive
Wednesday, November 18
9:00 a.m. – 11:30 a.m.
The automotive industry continues to evolve at an incredible pace. New manufacturing approaches across the supply chain are needed so you can quickly and profitably adjust your manufacturing velocity and thrive in a global economy. Industry peers discuss their best practices for successfully implementing automotive manufacturing strategies in the age of the “connected car.”

Food & Beverage
Wednesday, November 18
1:00 p.m. – 3:00 p.m.
Global markets, consumer diversity and environmental sustainability are key forces driving the evolution of the food and beverage industries. Join us at this year’s forum to learn how others are using The Connected Enterprise to accelerate lean manufacturing, optimize their production lines and meet stringent regulatory requirements.

Life Sciences
Wednesday, November 18
9:00 a.m. – 11:00 a.m.
Changing healthcare landscapes, expiring patents, generic competition, pricing pressures and regulatory scrutiny are prompting life science leaders to adopt business models delivering better patient outcomes at lower costs. Leveraging manufacturing as a business asset allows companies to stay ahead of demand with improved traceability and reduced cycle times. Hear from industry leaders about integrated control and information system architectures that harness production intelligence to improve operations – from formulation to factory.

Chemical
Wednesday, November 18
1:00 p.m. – 3:30 p.m.
The chemical market is “back in the game,” especially in the US, due to the advantage enabled by low-cost shale feedstock. The US chemical industry is emerging as a growth industry and global leader. To gain a competitive advantage, many chemical companies are taking steps to expand their operations. In this forum, hear more about plant-wide controls and optimization, safety and how to get the most from your plant assets. The chemical renaissance is here, are you ready?

Global Machine & Equipment Builders (OEMs)
Thursday, November 19
9:00 a.m. – 11:30 a.m.
Smart Manufacturing is driving new priorities for end users as they look to optimize their production and supply chain by bringing together islands of information – and that directly impacts OEMs. As end users pursue Smart Manufacturing, they need OEM partners that create smart machines that easily integrate into a facility, provide access to information, and enable agile reaction to changing market demands.

Metals
Thursday, November 19
9:00 a.m. – 11:30 a.m.
Safety, energy management, operational efficiency and integration of new and existing technologies are just a few of the industry drivers currently facing the metals sector. Join us to learn how leading companies have deployed innovative solutions to help address these challenges. The Metals Forum will also provide an opportunity for you to meet and discuss your challenges with industry experts.
**Oil & Gas**

Wednesday, November 18  
9:00 a.m. – 11:30 a.m.

Across the entire oil and gas supply chain the current industry dynamics are having an impact. Oil and gas companies are striving for greater cost containment and process optimization. This forum provides an opportunity to hear how petroleum companies are using advanced automation and information technology to meet their operational challenges while maintaining focus on improving production efficiencies.

**Power & Energy Management**

Thursday, November 19  
9:00 a.m. – 11:30 a.m.

Regardless of the challenges facing industry when generating and consuming electricity, it’s always beneficial to hear how your peers are reacting. The Power & Energy Management forum provides that opportunity, providing insight into how advanced automation and information solutions are helping meet those challenges while providing a positive impact on your bottom line.

**Water Wastewater**

Wednesday, November 18  
1:00 p.m. – 3:30 p.m.

Globally, water treatment facilities are facing unprecedented concerns. For decades, the infrastructure has been able to handle and meet the demands of society; but today, aging infrastructure, growing population and urban sprawl are stretching treatment facilities beyond capacity.

At this forum, water industry professionals will provide insight into industry trends and requirements relating to security, implementation, and purchasing network-based process control and power systems.
HANDS-ON LAB REGISTRATION

Hands-on labs allow you to work directly with Rockwell Automation products. You can register for them before arriving at the Automation Fair event. Registering online for hands-on labs will save you time and help you plan your day more efficiently, giving you more time to take in all Automation Fair has to offer.

1 Register for Automation Fair®

2 Register for Hands-on Labs
Monday, September 21: Go to www.automationfair.com and choose “Hands-on Lab Registration.” (Remember you must be registered for the Automation Fair to register for hands-on labs.) You must register by 11:00 p.m. Eastern on Monday, October 26.

3 Check-in for your Hands-on Lab Seats
Tuesday, October 27: Check-in to confirm all your hands-on lab seat selections. You must confirm by 11:00 p.m. Eastern on Friday, November 6.

4 At Automation Fair
At Automation Fair, pick up your event badge from registration. Your badge will be your access into the hands-on labs you are registered for.

For more information about registering for hands-on labs at this year’s Automation Fair event, please go to: www.automationfair.com.

HANDS-ON LABS

Hands-on labs are ninety minutes and allow you to work hands-on with Rockwell Automation products. See above for information on how to register.

CONTROL

L07 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.

L12 Basic PLC Programming with Micro800® Controllers
This introductory lab will cover the basic capabilities and programming of micro Programmable Logic Controllers (PLCs). In this lab you will learn how to program the Micro800 PLC to control PowerFlex® drive and configure PanelView™ 800 HMI with the latest Connected Components Workbench™ software 8.01.

L13 Advanced PLC Programming for Micro800 Controllers and PanelView 800 Graphic Terminals
Learn how to use Connected Components Workbench software and Connected Components Accelerator Toolkit Building Blocks to apply the cost-effective Micro850 Controller and PanelView 800 Graphic Terminal in a simple labeling machine application. You will also learn how to use the advanced features of the Connected Components Workbench software Developer Edition such as the run mode change, user-defined data types, spy lists, archive manager and intellectual property protection.

L18 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 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.

L19 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.
L11  Building Applications with FactoryTalk® View SE and FactoryTalk ViewPoint

If you are new to FactoryTalk View Site Edition, or need a refresher on basics, this hands-on lab allows you to pick and choose from subjects related the basic building blocks for a FactoryTalk Site Edition application. Topics include screen creation, setup of data logs and trending, alarm setup and configuration, and an introduction to the new HTML 5 version of FactoryTalk ViewPoint.


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.

L17  Studio 5000 View Designer™ Featured on the PanelView 5000

Learn how to increase productivity with the new Studio 5000 View Designer software and PanelView 5000. 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.

L02  Applying Basic EtherNet/IP Features in Converged Plant-wide Ethernet Architectures

EtherNet/IP enables both seamless plant-wide information and convergence of industrial and non-industrial network traffic, while maintaining real-time communication for control applications. This hands-on lab will cover a variety of techniques, best practices, software and products using EtherNet/IP. This lab will provide Stratix 5700™ and Stratix 8000™ hardware familiarization, configure the Stratix 5700 using Device Manager; configure the Stratix 8000 using the Add-On Instruction and controller tags in Studio 5000; and Stratix™ FactoryTalk View faceplates for diagnostics.

L03  Applying Advanced EtherNet/IP Features in Converged Plant-wide Ethernet Architectures

EtherNet/IP enables both seamless plant-wide information sharing and convergence of industrial and non-industrial network traffic, while maintaining real-time communication for control applications. This hands-on lab will cover a variety of techniques, best practices, software and products using EtherNet/IP. It will also demonstrate Network Address Translation (NAT) in Layer 2 and Layer 3 architectures, VLAN segmentation and connected routing. A prior understanding of general Ethernet concepts is recommended.

L04  Introduction to the Design and Implementation of FactoryTalk Application in a Distributed Control System

Learn how to design and build a FactoryTalk security infrastructure to secure, manage access and resources in your control system. Attendees will learn how to configure user and group permissions in the FactoryTalk Administration Console to manage access control and permissions for Studio 5000 Logix Designer, FactoryTalk View applications, and FactoryTalk AssetCentre in a single coordinated system. After a demonstration on basic topics, attendees can have hand-on lab time on advanced features.

L05  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.

L09  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 Kinetic™ 5500 servo drives and PowerFlex 527 variable frequency drives.

L14  Speed Integration with Ethernet-enabled CENTERLINE® MCCs, Rockwell Software Studio 5000 and IntelliCENTER® Software

Experience the ease of integrating CENTERLINE Motor Control Centers (MCCs) with EtherNet/IP and their associated components — PowerFlex drives and E300 overload relays. Streamline your workflow by leveraging the simplified integration of IntelliCENTER software and Studio 5000 Logix Designer to simplify device configuration and reduce commissioning time and errors.

L15  Tools that Simplify Product Sizing and Selection

Develop basic competency 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.

L08  Introduction to the PlantPAx Process 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, you will learn about navigating and interfacing with key system functions in a utilities and batch area. As an engineer, you will 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.

L10  PlantPAx MPC: Optimization in the Logix Controller for Easy Deployment

The operational benefits realized from Model Predictive Control (MPC) are generally well understood. However, MPC can also have a significant impact on the effectiveness of plant resources from operation managers and process engineers to plant operators. This lab will familiarize users with the Rockwell Automation server- and controller-based MPC solutions, which help to improve overall production line operations, including the implications for plant personnel.

L01  Developing Safety Applications Using the GuardLogix® Integrated Safety Controller Platform

In this lab, you’ll learn how to use GuardLogix Integrated Safety Systems to 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 plant-wide information systems.

L06  Developing Safety Applications Using the Guardmaster® 440C-CR30 Software Configurable Safety Relay

In this lab, you’ll learn to use the Guardmaster 440C-CR30 Software Configurable Safety Relay to support small to intermediate-level safety applications. Built to meet IEC/IEC 3 requirements, and featuring 22 embedded safety I/O points and a USB programming port, the 440C-CR30 safety relay is configured with Connected Components Workbench software. A new EtherNet/IP plug-in module is now available for communicating diagnostic information to a Logix controller 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.
TECHNICAL SESSIONS

Technical sessions are sixty-minute presentations by leading industry and product experts. All sessions are available on a first-come, first-served basis on site – no registration required.

CONTROL

T01 Autodesk: Electromechanical Design with AutoCAD Electrical and Inventor Professional

Want to help ensure the physical version of your electrical design has enough space in the mechanical layout? Interested in keeping your mechanical and electrical designs in sync? Attend this session to learn how to eliminate the disconnect between electrical and mechanical design and combine them into an integrated 2D/3D workflow.

T02 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.

T03 Concept Systems: Vision Robotics – Safety and Optimization

Manufacturers work with Concept Systems to develop new methods of improving worker safety and optimize production lines. Bringing together the power of Rockwell Automation safety solutions, leading robotic platforms, and vision technologies allows Concept Systems to offer turn-key solutions to manufacturers across multiple industries. This session will cover case studies that highlight a variety of Rockwell Automation solutions and Encompass™ Partner technologies. Attendees will gain insight into new technologies and how Concept Systems, as a Rockwell Automation Solution Partner, is creating cost-effective solutions to solve business and technical challenges.

T04 How to Integrate Your Energy Management into Your Automation System

Understanding the answers power quality and energy management information you collect can help you reduce energy costs and reduce downtime.

T05 EPLAN: Easily Automate Your Electrical Design Processes

Learn how EPLAN EEC One will enable you to fulfill the exact needs of your electrical design process through standardization between processes. Creating unified document structures with guideline definitions based on reusable functions within projects, and using uniform master data that can lead to error-free documentation, users may be able to save 30–50% in design time and costs.

T06 Reduce Design Time for Small Machine Development with Connected Components

See how Connected Component solutions can help reduce design and setup time of a small machine application by being able to configure and program multiple devices in the same project. This includes Micro800 Controllers, the new PanelView 800 Terminals, PowerFlex Drives and Guardmaster safety products. And learn about new Connected Components Workbench software Release 9.0 features for enhanced experience.

T07 FANUC Corporation: Integrated Solutions for Powertrain Applications: FANUC and Rockwell Automation

Aggressive global fuel economy and emissions standards are driving automotive manufacturers to redesign powertrains. More flexible and agile systems are needed to meet today’s safety and security requirements and address the importance of manufacturing intelligence. Rockwell Automation and FANUC are collaborating to offer integrated automation solutions for powertrain applications that help simplify machine systems. Designed to benefit both manufacturers and machine tool builders, these solutions integrate FANUC CNCs and robots to Rockwell Automation cell controllers. Learn more about these solutions and how they can help provide you cost efficiencies, a safer work environment, and overall increased productivity.

T08 Modernize Your Control System

Rockwell Automation provides many tools to help users migrate their applications to newer control platforms. This lab will demonstrate how to convert their applications to a CompactLogix™ system. Several scenarios will be discussed including PLC-5, SLC™, PanelView™ migrations.

T09 Prosoft Technology: How to Integrate AGA/API Flow Computing Capability with Rockwell Automation Logix Controllers

For oil and gas applications, accurate and reliable flow measurement is required. Learn how adding a flow computer directly to your Logix® based processor can reduce maintenance cost, increase productivity, and give users the ability to perform advanced functions not possible with a dedicated stand-alone RTU or flow computer.

T10 SolidWorks: Boost Productivity and Improve Quality by Integrating Electrical and Mechanical Design in 3D

Explore the benefits of using 3D CAD technology for design of electrical-mechanical systems to develop electrical schematics and control panel. Discern techniques for routing wires, cables and harnesses that manufacturers can use for Electrical 3D technology to integrate the electrical and mechanical aspects of cabinet and product design.

SYSTEM

T11 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.

T12 Increasing Software Development Efficiency Using the Integrated Architecture Application Tools

Learn about new and existing Integrated Architecture tools that can help 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.

INFORMATION & VISUALIZATION SOFTWARE

T13 ACP/ThinManager: Integrated Architecture with ThinManager: Providing a Path to Your Plant’s Thin Client Future

Discover how ACP’s ThinManager can help 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!

T14 What’s New in Visualization

Discover new solutions that help improve productivity by expanding connectivity, enhancing design and maintenance tools. From machine-based operator interfaces to highly-networked systems, this session will focus on what’s new with the Rockwell Automation HMI and visualization hardware and software portfolio.

For a complete session schedule, visit www.automationfair.com
T15 Cybertrol Engineering: Cybertrol Leverages Cloud for Automation Architectures
How much automation software could be moved into the “cloud”? How much should?
In this session, we will discuss pros and cons of leveraging cloud architectures for SCADA systems. You have the opportunity to see Cybertrol’s cloud-based historian/reporting solution that helps remove the administrative hassle from your staff, while still providing the reporting you require at a lower cost.

T16 Information and The Connected Enterprise: Integrating Control and Information for Decision-Making Power to Increase Productivity
Integration of control and information on the manufacturing floor will be essential to remaining competitive. This session will demonstrate how enterprise manufacturing intelligence helps translate data from the plant floor into actionable information for decision makers at all levels of the business and enterprise. FactoryTalk information software connects disparate data sources for analysis and comparison by using reports, dashboards and graphics. This information helps manufacturers make measurable improvements to their processes and drive operational excellence.

T17 eWON: Easily Access a PanelView HMI from any Smartphone or Tablet
Discover how you can securely monitor and pilot your remote PanelView HMI or SCADA using a standard web browser. No additional software or apps are required.

T18 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. This session will demonstrate new features and functionalities.

T19 Fluke Corporation: An Overview of Asset Management and Predictive Maintenance
Asset management and predictive maintenance practices have been evolving rapidly in recent years. Learn the fundamental processes and technologies that underlie both disciplines and how the proliferation of mobile devices and cloud computing are helping to drive improvements.

T20 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 to their manufacturing intelligence systems, including mobile devices and web clients. In this session, see how Rockwell Software products help accomplish these goals with access to FactoryTalk View SE, FactoryTalk VantagePoint® EMI, and eventing on any mobile platform.

T21 MECCO Marketing and Traceability: Traceability and Serialization in the Connected Enterprise
Serialization for product traceability is critical to The Connected Enterprise. How can you bring data together across the entire company in order to reduce the impact of adverse events and improve inventory and manufacturing performance? This session will explore connected direct part marking to achieve full traceability.

T22 Mettler Toledo Inc.: Remote Alarming for Weighing Equipment
This session provides an overview of the capabilities for remote monitoring, troubleshooting, and asset utilization reporting of the new IND570 weighing terminal. The IND570 weighing terminal has an ability to report a variety of asset information via an EtherNet/IP connection using Class 3 messaging. The Mettler Toledo InTouchSM solution will be presented, showing how remote weighing equipment assets can be centrally monitored to help maximum uptime and performance.

NETWORKS & SECURITY

T23 Cisco: Trends in Enterprise Networking
Learn from Cisco experts the trends in Enterprise networking that may soon be impacting your EtherNet/IP networks. This will be a general overview of various technologies such as: transition from IPv4 to IPv6, flexibility gained from Software-defined Networking (SDN), TrustSec secure network access, BYOD and cloud computing (public, private, fog).

T24 New Security Features Help to Reduce Risk in Your Industrial Control System
Learn how you can help 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.
T25 ESTeem Wireless Modems: New Radio License Requirements Help Open New Markets

Many wireless control and data collection networks are not compatible with new FCC license requirements and are subject to large fines and penalties. Now is the time to update your customer’s legacy wireless network for FCC compliance with new radio modems providing both serial DF1 and EtherNet/IP interfaces and advanced secure networking features such as meshing and redundancy.

T26 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.

T27 General Cable: Industrial Ethernet – The Perfect Solution for an Imperfect Environment

Industrial environments are not like normal premise environments. Cables in these environments can be exposed to dirt, grease, oil, extreme EMI noise sources, harsh chemicals and even ultraviolet (UV) radiation. This presentation will provide insight on how to properly select the right Ethernet cable for an Industrial setting.

T28 Design Considerations for Robust EtherNet/IP Networking

Learn about top design considerations 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.

T29 HMS Industrial Networks Inc.: Bring Extended Network Connectivity to Your Logix Architecture

Are you trying to expand your business by converting your customer to a Rockwell Automation solution? Do you need to reduce capital expense by reusing devices and retrofitting your existing networks in your facility? HMS Industrial Networks presents a new family of network connectivity products based on the Anybus technology which enables ControlLogix and CompactLogix controllers on EtherNet/IP to seamlessly communicate with Modbus PRO/PUS DFI and serial devices. The solutions are fully integrated into Studio 5000 Logix Designer through Custom Add-on Profiles which helps simplifies configuration and reduces commissioning time.

T30 Building a Highly Available Network – Don’t Bring Me Down

Does your network keep you running or going out of your mind? Network performance is critical to the health of a process control system. Don’t waste your time with poor designs that can bring you down. This session demonstrates how a properly designed network can be transparent to the manufacturing environment. See live demonstrations of multiple network architectures, failure modes and recovery methods.

T31 Owl Computing Technologies: Cybersecurity for the Convergence of OT and IT

This session addresses cybersecurity solutions for the convergence OT (Operations Technology) and IT (Information Technology) networks that use data nodes as the underlying cybersecurity technology. It also describes how comprehensive cybersecurity solutions use a variety of other capabilities including FactoryTalk Historian replication secure transfer of software patches and updates into the plant and remote view capabilities.

T32 Panduit: Simplifying Infrastructure for The Connected Enterprise

An infrastructure that is designed with a building block approach helps simplify design deployment and maintenance and leads to lower implementation costs and less downtime. In this session you’ll gain knowledge about reference designs best practices and real deployment of robust EtherNet/IP network architectures.

T33 Softing (OLDI): Ethernet Cable Certification

Ethernet cable certification is increasingly important for industrial installations both for Ethernet TCP/IP communications as well as factory communications using EtherNet/IP. Technology trends and specific standards driving the need for certification will be covered. Actual test output from Softing’s WireXpert cable certifier will be shown.

POWER, MOTION & MOTOR CONTROL

T34 BLOCK USA, Inc.: Reduction of Common Mode Noise to Almost Zero Using High-Performance All-pole Sine Filters

All-pole sine filters offer a maximized filtration effect between inverters and motors. Pure sinusoidal motor voltages between the phases (differential mode), as well as between phase and earth or motor star point to earth (common mode), is generated. BLOCK USA, Inc. will present a newly designed filter featuring reduced size and lower cost of ownership.

T35 Advance Tuning for Motion Control

Learn how you can help reduce commissioning and maintenance time with load observer and tracking notch filters with your Kinetix drives.

T36 Schweitzer Engineering Laboratories: Securing Communications for SCADA and Critical Industrial Systems

Threats against automation and communications networks are increasing and can result in unauthorized access and espionage. Access to the devices in these networks must be secured or critical equipment and information face the risk of compromise. Learn how to mitigate these threats with the application of countermeasures and new technologies.

T37 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.
**PROCESS SOLUTIONS**


Industrial heating applications can help save energy and reduce the risk of utility penalties. Additionally, they can reduce equipment costs by reducing losses, harmonics and peak load – and by improving process efficiency and power. This presentation discusses AE Thyro® family features (such as dASM synchronization mode, VT mode, and VSC mode) and their implications on cost reduction.

**T47  Batch Best Practices: Saving Time and Costs**

Explore the new Batch Application Toolkit from Rockwell Automation, designed specifically for developers of batch applications. It includes documents, application examples and videos aimed to help reduce the risk and cost of your project implementation.

**T48  Endress+Hauser: Harnessing the Power of Field Instrumentation – Phosphorus Control in Water Recovery and Reclamation**

Phosphorus is a non-renewable resource with significant cost and environmental impacts associated with removal and control. As regulatory agencies, engineering firms, water reclamation owners, and operators work to meet new and increasingly stringent requirements, reducing costs with phosphorus management is an effective, automated on-line measurement and control strategy/solution.

**T49  Discovering the Functionality of the Rockwell Automation Library of Process Objects**

The Library of Process Objects provides rich functionality with known performance. In this session, you will discover the capabilities and typical applications of each library object – along with common library features, such as modes and alarms. Walk away with the knowledge to more efficiently develop and operate process systems and OEM process skids.

**T50  Hardy Process Solutions: Productivity and Process Weighing Solutions**

Hidden productivity thieves constantly rob manufacturing processes, but where do they hide? Here’s an example: On average, seven weight measurements are taken to process a hide? Here’s an example: On average, seven weight measurements are taken to process a...
T53  PlantPAx Process Control System: What’s New and What’s Next
Discover the newly released 2015 features of the PlantPAx process control system and what’s ahead for the upcoming year. Explore each new feature in depth and learn about the benefits this modern DCS offers compared to traditional DCS systems.

T54  Pepper+Luchs: Introducing WirelessHART with EtherNet/IP Gateway and Add-on Profile
WirelessHART is the only wireless standard approved for the process industry. This presentation will give an overview of the new WirelessHART technology, introduce the WirelessHART EtherNet/IP gateway and detail how it integrates into ControlLogix.

T55  Introduction to Migrating Your Legacy DCS System
Is your legacy DCS hampering your efforts to meet today’s demands? This session explores the advantages of migrating to a modern DCS. You’ll learn about the multitude of tools — scanners, cables, code conversion, wiring harnesses — available from Rockwell Automation. From justification to implementation and optimization, Rockwell Automation can help you throughout the lifecycle of your migration.

T56  Stone Technologies: Anchor Glass PlantPAx System Migrating from PID Controls to Advanced Process Controls
Working with Stone Technologies, Anchor Glass transitioned some challenging, slow-reacting process systems to gain tighter precision control. These process systems included a glass level system and a combustion burner system for glass temperature, which both moved from standard proportional-integral-derivative (PID) control to the Rockwell Automation Internal Model Control (IMC). Learn the before and after results of PID versus IMC with FactoryTalk VantagePoint and discover the downstream benefits of tighter control.

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 SIL1 through SIL3 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 and how each helps improve efficiencies and performance.

T58  Stratus Technologies: Virtualization for The Connected Enterprise
Moving toward a Connected Enterprise requires deploying sophisticated software solutions where production assets are located, which can be made easier with virtualization. While server virtualization is wildly popular with corporate IT, unleashing this power in industrial automation can provide implementation and maintainability simple enough for non-IT staff. Support your journey to a Connected Enterprise by learning about virtualization and how best to implement it outside the datacenter.

T59  Thermo Systems: FDA Selects PlantPAx Solution for Resilient Microgrid
The FDA White Oak campus in Silver Spring, MD selected a PlantPAx solution to provide electrical grid resiliency. The integrated control solution includes 22MW of on-site power generation and resilient Microgrid process controls. Hear how Solution Partner Thermo Systems, in partnership with the Rockwell Automation, successfully designed and implemented this integrated power generation and Microgrid automation solution.

SAFETY & COMPLIANCE

T60  Grace Engineered Products: Electrical Safety by Design
NFPA 70E brings safety-by-design of electrical equipment into better focus by helping to reduce workers’ exposure to voltage for routine maintenance tasks. Thru-panel PESD solutions such as zero-voltage verification and large-sized infrared windows are examples of designed-in safety that increases equipment reliability and productivity of maintenance tasks.

T61  Machinery Safety Control Selection: Relays to Integrated Control
Machinery control and safety applications range from simple to complex. Learn how to select the right safety logic system to help create a safer, sustainable, more productive, and cost-effective machine. Rockwell Automation experts will explore the pros and cons of different safety logic systems — from relays to integrated safety controllers — to help you make the right choice.

T62  Grantek: Alternatives to LOTO — What Are My Options?
With recent changes in international and national safety standards and the development of more advanced safety technology, what are some alternatives to Lock Out-Tag Out (LOTO)? In this high level overview of the OSHA regulatory requirements, we cover available options for making your machinery safer and more productive. Learn about best practices, including: machine safety policies, procedures, design specifications, available technology and validation concepts to help ensure your organization is making educated decisions towards safe automation.

T63  Safety System Development Process and Configuration Tools Overview
In this session, you will learn how to dramatically reduce development and deployment time of safety systems using the Safety Life Cycle methodology and an array of tools available from Rockwell Automation. You’ll use tools to help you determine return on investment for safety projects, design safety functions and systems, select appropriate safety devices, and ensure that your system meets global safety standards and directives being increasingly specified by manufacturers. These functions require a plan and proper documentation. This session will cover the verification and validation process, proper documentation, and available tools. Ideally, we recommend attending “Machinery Safety System Development and Configuration Tools Overview” workshop prior to this session.

T64  Hammond Power Solutions, Inc.: New 2016 Department of Energy Transformer Efficiency Regulations
New efficiency regulations in 2016, along with recent NEMA NEC and IEEE code changes, will impact medium- and low-voltage dry-type transformer designs. A proper understanding of these changes will be needed to properly specify and apply transformers.

T65  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, system diagnostics that reduce downtime and others.

T66  MTS Sensors: Leverage SIL2-Rated Sensors for Functional Safety and Hazardous Areas
Discover sensor technologies that address the unique needs of both hazardous environments and functional safety. Assess the risk of damage by using a functional safety assessment (IEC 61508) to determine the probability of failure. Help reduce risk by implementing safe operation through diagnostics and supervisory functions.

For a complete session schedule, visit www.automationfair.com
**T67** Introduction to Machinery Safety Application Design

Take some of the mystery out of designing machinery safety solutions by walking through the design of an actual application using aspects of the “safety lifecycle.” This process includes risk assessment, risk mitigation, component selection, functional requirements specification, circuit design and logic. Attendees will help design the circuit and perform verification testing via practical application of functional safety principles.

**T68** Pentair Equipment Protection (Hoffman): Changing Paradigms about Working on Live Electrical Equipment

Gain awareness of the areas within an enclosure that have potential for live power, understand the requirements from NFPA 70E for working in an enclosure containing live electrical components, and know how to prevent exposure to powered components. We’ll highlight Hoffman’s SEQUESTR disconnect enclosure which reduces exposure and adds safety.

**T69** 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 including the PowerFlex 7000, and arc assessment services.

**T70** RF Ideas, Inc.: How to Reduce Unauthorized Equipment Access

Operating today’s sophisticated automated process control systems means employees must meet safety and compliance rules and regulations. Help ensure that only authorized employees can access complex systems is critical to maintaining safety standards and compliance. Leveraging existing employee badge systems with badge readers helps ensure only trained, authorized employees have access.

**T71** ANSI RIA R15.06: Robot and Robot System Safety

ANSI RIA R15.06 - 2012 is the new robot system safety standard and the “old” 1999 R15.06 will no longer be valid for use as of the end of 2014. This session will outline the new standard and how it differs from the previous.

**T72** Ross Controls: Pneumatic Functional Safety Examples

Pneumatic safety issues are often overlooked resulting in unintended motion that can often result in hazardous situations. This session will walk through a few safety system examples examining failure modes and the functional safety aspects of the potential solutions.

**SOLUTIONS & SERVICES**

**T73** Badger Meter: Installation Tips for Ultrasonic Flow Meters

See a live demonstration on how to properly install ultrasonic flowmeters and quickly configure EtherNet/IP communications. Ultrasonic flowmeters are easily clamped onto the outside of pipes without interfering with process flow. This helps companies control maintenance and lost production costs by avoiding process downtime while adding new measurement points.

**T74** Field Modernization Options for Medium Voltage Drives

This session will cover the capability to upgrade medium-voltage drives, starters and SMCs in the field to help meet customer application needs, including full review of technical benefits and reliability impact.

**T75** Paper Converting Machine Company: Increasing Your Appetite for Migration – Taking a Bite-sized Approach

A complete control system replacement can be costly, risky and time-consuming. Yet, upgrades are necessary as hardware becomes obsolete. As a Rockwell Automation OEM Partner, PCMC has provided unique incremental migration paths leveraging Integrated Architecture, and a phased approach addressing safety systems, motors drives, logic controllers, HMIs, and I/O.

**T76** Front-End Engineering and Design (FEED)

Will we finish on time? Are we going over budget? What risks will commissioning and installation bring? These questions can’t be answered unless the proper time and care have been taken from the beginning. Front-End Engineering and Design (FEED) plays a critical role in preparing projects for success, including detailed budgets and timelines, total cost of ownership and risk assessment.

**T77** Stahlin Non-Metallic Enclosures: Performance Matters

During an objective comparison of non-metallic composite and stainless steel enclosures attendees will learn how materials perform in harsh environments. This presentation featuring relevant videos and actual application case studies will address the key elements of making a proper specification to ensure that enclosures meet specific on-the-job requirements.

**T78** Rod Pump Controller

Today, oil and gas companies are encountering unprecedented challenges and changing market conditions that escalate the need for operational excellence. OptiLift™ RPC helps extend the production life of existing oil and gas wells. Other artificial lift enhancements and wellhead monitoring techniques will be demonstrated.

**T79** Serialization

Achieving a return on your regulatory compliance serialization ePedigree investments requires an interoperable data solution. This data solution needs to connect all five serialization ePedigree data layers together with your Connected Enterprise. Once a business is connected with real-time visibility to both its customers and its products, the data created can be used to optimize a business in several key areas.

**T80** 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? This session will step through an MRO journey where you can act on Asset Intelligence to help improve plant productivity, utilizing smart devices, reliability professionals and asset strategies.

**T81** Using the Force to Manage Maintenance

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 work force. Companies spent $3.7 trillion US dollars on new technology in 2013 alone. These trends present serious challenges for manufacturers, leaving them with fewer skilled resources while supporting larger and more sophisticated systems that hold 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.

**T82** Scalable Secure Remote Monitoring Solutions

This presentation and demonstration highlights a range of solutions from secure remote access to cloud-based equipment monitoring and custom dashboards. Scalable secure remote access not only allows you to provide support to your customers, it connects you with critical data that can help you monitor equipment performance, prove SLA compliance, measure consumables, and make strategic decisions on R&D and machine design. Explore real examples of how remote monitoring solutions have enabled others to gain a competitive advantage in their industry.

**T83** Minimizing Obsolescence Risk on the Journey to The Connected Enterprise

With the convergence of information technology and operations technology on the manufacturing horizon, the $65B in legacy installed base in the US is limiting our industry’s ability to take advantage of the Connected Enterprise. Companies are facing difficult decisions on where to begin. This session will explore ways to minimize obsolescence risk on this journey.
THE CONNECTED ENTERPRISE

T84 The Connected Enterprise: A Day in the Life of a Production Order
As manufacturing and industrial operations become connected, they will change more profoundly in the next five years than in the past 20. Historically, the technology needed to enable this change was prohibitively expensive. However, The Internet of Things and other enabling technologies are changing that. This session follows the flow of an actual production order. Enjoy a glimpse into how the accelerated connection of Information Technology and Operations Technology enables unprecedented collaboration across the enterprise – linking processes and facilities to suppliers and customers in new ways that result in improved enterprise, plant and supply chain performance.

T85 The Future of Manufacturing in a Connected World
Integration of control and information on the manufacturing floor will be essential for manufacturers to remain competitive. In this session, Rockwell Automation and Cisco will discuss how they are delivering products, solutions and services that use our industry-leading best practices for networking and convergence for organizational efficiency. Topics include: use cases and solution sets for the plant of the future, automation infrastructure, security and compliance, mobility, video and collaboration, industrial computing and cloud, remote expertise and remote services, and energy management.

T86 Introduction to Virtualization for Manufacturing Environments
Many manufacturers understand the benefits a virtual infrastructure can bring to the production environment, but don’t know where to start. This session covers the use of virtualization in the manufacturing segment, considerations for implementing a virtualized solution and the set of virtualized templates offered by Rockwell Automation designed to help simplify the transition. We’ll provide a demonstration of virtualization technology and show you how to build an agile, efficient infrastructure with virtualization and deploy highly available applications.

T87 Building a Stronger Business with a “Connected” Workforce
Prepare for the convergence of operations technology and information technology fueled by the industrial Internet of Things. Bridge these traditional disciplines to enable harmonized skillsets, increased analytical knowledge, and a workforce empowered to make valuable business decisions. This session covers the benefits of developing and certifying industrial networking skills, and how to achieve professional success.

T88 Secure Network Architectures for The Connected Enterprise
Optimization of your connected enterprise requires a network architecture that is scalable, robust, secure and future-ready. Learn about the architectural security framework and solutions developed by Rockwell Automation and our partners to help improve the availability, integrity and confidentiality of the network architecture. A prior understanding of general Ethernet concepts is recommended.

T89 Trends in Mobility – The World is Not Flat
We all carry smart phones, and have become more mobile, but are we still living our lives as if the world is flat? Mobility is much more than viewing a webpage or report on our phone or tablet, it’s a fundamental shift in how we live our lives. Today’s contemporary software applications are designed with a “mobile first” approach that drives workflows back to the desktop interface and servers rather than the other way around. In this session, we’ll explore mobility trends and reference recent product introductions as examples. We encourage you to abandon the flat earth model, and join us in the belief that the world is round, and mobile is everything.

T90 New Strategies to Monitor, Optimize and Support Your Machines – Leveraging the Cloud
Maximizing the productivity of your equipment and keeping track of your assets in real time has been an elusive goal for most. We’ll be presenting a case study of how several machine builders are leveraging Cloud technology — and the Internet of Things — to differentiate their offering, and to partner much more closely with their customers to improve the performance of their machines.
FIRST (For Inspiration and Recognition of Science and Technology), a not-for-profit organization, has a vision to create a world where science and technology are celebrated and where young people can dream of becoming science and technology heroes.

The FIRST Robotics Competition (FRC) is a unique varsity sport of the mind, designed to help high school-aged young people discover how interesting and rewarding the life of engineers and researchers can be.

FIRST also offers the FIRST Tech Challenge (FTC), a more affordable and accessible program for high school students, the FIRST LEGO® League (FLL) for 9 to 14 year-olds and the Junior FIRST Lego League (JFLL) for 6 to 9 year-olds.

You are sure to be engaged as students showcase their FIRST robots in the FIRST Automation Fair booth. Among all the sophisticated automation products and systems you’ll see in the convention center, the FIRST booth will surely remind you why you were inspired to become an engineer.

UNIVERSITY RELATIONS

Rockwell Automation provides value by offering a broad range of partnering opportunities. The University Relations program is an extension of our partnerships, where relationships are built with selected universities that offer engineering, business and technology curriculums. Students gain exposure to Rockwell Automation technology and its application, helping them become better candidates for future jobs in industry.

During Automation Fair, students get to see a wide variety of products and technology, and attendees can learn more about the degree programs offered by many of the universities.

Current schools in the Rockwell Automation University Relations Program:

• Case Western Reserve University
• Florida A&M University
• Georgia Institute of Technology
• Marquette University
• Milwaukee School of Engineering
• North Carolina A&T University
• Penn State University
• Purdue University
• Texas A&M University
• The Ohio State University
• University of Illinois – Urbana/Champaign
• University of Michigan – Ann Arbor
• University of Wisconsin – Madison
• University of Wisconsin – Milwaukee

Stop by our showcasing schools at the Automation Fair event.