Pre-Show Program

Automation Fair® Event

November 15-16, 2017
Houston, Texas – George R. Brown Convention Center

DISCOVER
THE SOLUTIONS YOU’RE LOOKING FOR IN ONE PLACE

For More Information and to Register, Visit
www.automationfair.com
The Easiest Way to Plan Your Day

Get the most out of the Automation Fair® event

Tap into a wealth of in-depth industry knowledge from Rockwell Automation and members of the PartnerNetwork™ and learn how The Connected Enterprise can help make you more globally competitive and productive. Booths, forums, technical sessions and hands-on labs are labeled by industry to help you plan your ideal day at the 2017 Automation Fair® event.

AT  Automotive & Tire
CH  Chemical / Specialty Chemical
FB  Food & Beverage
LS  Life Sciences
MC  Mining & Cement
OEM Machine & Equipment Builders (OEMs)
OG  Oil & Gas
PE  Power & Energy
PP  Pulp & Paper
PR  Process
ST  Safety
TCE The Connected Enterprise
WW  Water Wastewater
Join us for the 2017 Automation Fair® event!

GEORGE R. BROWN CONVENTION CENTER
Wednesday, November 15 – 8 a.m. to 5:30 p.m.
Thursday, November 16 – 8 a.m. to 4 p.m.

HOW TO REGISTER
For detailed information on how to register, visit www.automationfair.com.

ROCKWELL AUTOMATION EVENT MOBILE APP
Coming soon! Look for the mobile app and get even more out of the Automation Fair® event! With the app, you can:

• Register for sessions
• 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 social media conversations and stay current on event news

Visit www.automationfair.com/mobile.page for up-to-date information.
PROCESS SOLUTIONS USER GROUP (PSUG) 2017 ANNUAL MEETING

November 13-14, 2017
George R. Brown Convention Center, Houston, Texas

Join us for our annual Process Solutions User Group (PSUG) meeting prior to the 2017 Automation Fair® event. 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® Distributed Control System. Create an entire Process Week of activities by attending PSUG and the Automation Fair® event.

FEE AND REGISTRATION

Register for PSUG by September 30 to receive the discounted early bird pricing of $499 (regularly $649.) This fee covers all sessions, labs, food and refreshments during the event. In addition, there is an optional Monday night networking and entertainment event including dinner.

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

AUTOMATION PERSPECTIVES 2017 GLOBAL MEDIA EVENT

November 14, 2017 – 7:00 a.m. to 1 p.m.
Hilton Americas
Houston, Texas

At Automation Perspectives, leaders and industry experts will share their vision and real-life strategies relating to smart manufacturing, beginning with The Connected Enterprise. This half-day event is open to members of the global industry media and executives from customer and partner companies.

More information can be found at: 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 of our PartnerNetwork members displaying their latest products and solutions at the Automation Fair® event.

EXHIBITING PARTNERNETWORK MEMBERS*

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<th>Encompass Partners</th>
<th>OEM Program Partners</th>
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Solution Partners

- Applied Control Engineering Inc.
- Barry-Wehmiller Design Group
- Concept Systems Inc.
- Cybertral Engineering LLC
- Interstates Control Systems, Inc.
- JMP Engineering
- Matrix PDM Engineering
- Matrix Technologies Inc.
- MehT Technologies Inc.
- Prime Controls, LP
- Revere Control Systems
- RoviSys
- Stone Technologies Inc.
- Wachter Electric Company Inc.
- Zeppelin Systems USA Inc.

Strategic Alliance Partners

- Cisco
- Endress+Hauser
- Panduit Corp.
Rockwell Automation Booths

Ideal Days Key:

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Engineering Our Future

It’s no secret that we need more students following a STEM (science, technology, engineering and math) path to be the innovators of the future. Learn about our STEM strategy and the programs we support. Interact with local students showcasing FIRST robots and ST Math Play while getting ideas on how to start a STEM program at your company.

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. Used by customers for over 100 years, Allen-Bradley components include Power, Energy Management, Connectivity, Logic, Sensing and Switching, Operator Interface and Safety products.

Global Lounge

Visit the Global Lounge area to meet-up with regional and country colleagues from Europe, Middle East, Africa (EMEA), Asia Pacific and Latin America and discuss our capabilities in each region.

Sign up for one of the Latin America Technology Tours at the Global Lounge welcome desk. These tours are offered in both Spanish and Portuguese (limited space so sign up early).

Information Solutions

Information Solutions and services can help you take advantage of your adoption of industrial IoT and connected operations to achieve desired productivity targets, speed time to market and reduce enterprise risk. See how you can make the most of your production data, converging information and operations technology, to deliver decision-making intelligence at every level of your enterprise.

Innovations

In the Innovation Booth, Rockwell Automation will showcase automation technologies on the horizon, some of which are more than two years away. Catch a glimpse into the future and learn about investments Rockwell Automation is making in design, customer experience, scalable compute, analytics, collaboration and mobility.

Integrated Architecture

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 Integrated Architecture® with our new control and information products, and interact with digital demos. Also, take the opportunity to talk to subject matter experts on security, automation design productivity, collaboration tools and motion control.

Intelligent Motor Control

In today’s dynamic global marketplace, you need to reduce energy consumption, increase asset utilization and optimize productivity. Visit us to see how the portfolio of Intelligent Motor Control products helps make it possible to move toward operational excellence with reduced time to market, lower total cost of ownership, reduced downtime and lower risk.


Let us show you a path from legacy discrete and continuous automation control and information systems to contemporary solutions using current technology. Learn about our hardware and software migration tools designed to make migration and conversion a natural next step in moving toward a more Connected Enterprise.

Our Best Kept Secret

Do you want the inside scoop on what can make your business more successful? Unlock some of the best kept secrets of how we do this every day – and why it’s more than just our products, services or solutions that make us your clear choice as a partner.
Product Selection, Configuration and Quoting  
Booth 639
Visit your one-stop shop for free desktop software and mobile apps that help you configure and select Rockwell Automation and Encompass™ Partner products. Build and validate your systems, estimate your projects, accelerate the mechanical and electrical design and set up your system! Learn how to optimize and troubleshoot your system, determine compatibility and locate product information and downloads.

Safety Solutions  
Booth 909
Expertise, experience and the broadest technology offering in industry have established Rockwell Automation as a world leader in industrial safety. See how you can improve performance using integrated safety solutions, development and design tools, and meet the experts who understand the challenges you face today in machine, process and electrical safety applications.

Services  
Booth 1441
Rockwell Automation Services offerings leverage the capabilities of The Connected Enterprise to address some of the most compelling manufacturing challenges today. Whether it’s a skills gap or an aging infrastructure, MRO spend or regulatory compliance concerns, the looming threat of cyberattacks or the need for IT/OT convergence to leverage new technologies, we have the solutions to suit your industry or application.

The Connected Enterprise Industries Pavilion  
Booth 1221
The Connected Enterprise Industries Pavilion showcases Rockwell Automation capabilities in several industries including Oil & Gas, Chemical and Food & Beverage, as well as Smart Machine and Equipment Builders. The Connected Enterprise demonstrates a knowledge-enabled, industrial enterprise where devices and processes are monitored and optimized to enhance productivity, safety, security, sustainability and economic performance, thereby unlocking the hidden value discovered through Digital Transformation of an organization.
Forums

The forums will feature representatives and experts from a variety of companies that will present their experiences and applications of the latest automation technologies used to increase their productivity and improve the efficiency of their business. See page 10 for information on how to register to attend the forums.

Chemical/Specialty Chemical
Wednesday, November 15
1:00 p.m. – 3:00 p.m.
In today’s global business climate, you are confronted with myriad challenges linked to cost controls, regulations, limited workforce, cyber security and ever-changing market pressures. Whether you’re producing high-volume commodity chemicals or low-volume specialty chemicals, you need to find ways to do so in the safest, most cost-effective manner.
During this forum, leading industry specialists will demonstrate how they manage these challenges, using information solutions and automation strategies to help keep them competitive.
[Image]

A Culture of Inclusion & Diversity in Manufacturing:
A Key Component of Business Strategy
Thursday, November 16
1:00 p.m. – 3:00 p.m.
Manufacturers today face a significant challenge in attracting and retaining talent, as their most experienced personnel retire in a “silver tsunami” over the next several years. Changes in demographics and expectations of the millennial generation, which will constitute a fast growing part of the workforce, will need to be addressed. A company culture of inclusion and engagement, along with a focus on environmental stewardship, community involvement and high ethical standards will be critical to attracting and retaining the best talent.
In the industrial controls world, Rockwell Automation is leading the industry in building a culture of inclusion. Our experience demonstrates that these efforts result in improved business performance. Join this forum to discuss inclusion & diversity challenges facing manufacturing with your industry peers. Share best practices and learn from the Rockwell Automation 10-year journey.
[Image]

Engineering, Procurement & Construction (EPC):
Creating Value for the EPCs
Wednesday, November 15
1:00 p.m. – 5:00 p.m.
Market dynamics are continuously challenging EPCs to execute projects at lower costs with fewer engineering hours and shorter schedules. Hear how Rockwell Automation is focused on providing you with design and estimating tools, the latest technologies and best practices to enable your company's success as measured by profitability, sales, reduced risks and customer satisfaction.
[Image]

Food & Beverage
Wednesday, November 15
9:00 a.m. – 11:00 a.m.
Consumers continually seek the new and different, and prioritize taste and nutritional value. Food and beverage producers are challenged to get new, high-quality products through the facility quickly, and keep prices low and food safer. The manufacturing world is also rapidly evolving.
Connected, information-enabled smart manufacturing connects previously siloed processes and creates new opportunities to help manufacturers better understand their operations. Smart manufacturing has the potential to completely transform operations in the food and beverage industry. Learn how best-in-class companies are remaining competitive and capitalizing on a Connected Enterprise.
[Image]
Machine & Equipment Builders (OEMs)
Thursday, November 16
9:00 a.m. - 11:00 a.m.

OEMs are challenged to continuously innovate to stay competitive. As more end users move to a Connected Enterprise to optimize their production and supply chain, they’re looking for more value from the machinery and equipment in their facilities. Smart machines and equipment provide unprecedented access to data, greater connectivity and robust security, which position OEMs and their customers for greater success.

Join us to learn how leading machine and equipment builders are capitalizing on this opportunity and are positioning themselves and their customers for greater success.

Oil & Gas
Wednesday, November 15; 9:00 a.m. – 11:00 a.m.
Thursday, November 16; 9:00 a.m. – 11:00 a.m.

Oil and gas companies strive for more efficient operations throughout their supply chains. Greater adoption of automation and information technology and associated services can help achieve operational excellence goals.

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
Wednesday, November 15
1:00 p.m. – 3:00 p.m.

From a “dash to gas” to regulation CWA 316B and the increasing adoption of alternatives, the power and energy industries continue to be dynamic. An increase in and the correct use of technology will help improve both the effective generation and the efficient use of what’s produced.

During this forum, leading companies and industry specialists with years of experience will demonstrate how they manage these challenges and use information and automation to achieve a competitive advantage.

Pulp & Paper
Thursday, November 16
9:00 a.m. – 11:00 a.m.

You need to meet the challenges of global competition, higher production costs and stringent environmental standards. That means you must streamline manufacturing processes while minimizing water, energy and material costs. In addition, you need to improve product quality, productivity, and capacity while reducing downtime. In this forum, you will learn more about the latest technologies, tools and strategies you can use to justify return on investment – and ways to modernize operations while minimizing risk.

Discover how the implementation of new technologies can enable you to address the workforce gap – and become more productive, competitive and sustainable.

Water Wastewater
Wednesday, November 15
9:00 a.m. – 11:00 a.m.

Globally, the water industry is evolving. Delivering reliable, safe and affordable access to water is no longer solely on the minds of water and wastewater managers. Raised consumer awareness and stakeholder operational demands over this most precious resource are guiding utilities to build smarter, more sustainable infrastructure.

During this forum water professionals will discuss industry trends and requirements, and how advancements in technology help utilities design, operate, and maintain today’s smart water plant.

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| PR | Process |
| ST | Safety |
| TCE | The Connected Enterprise |
| WW | Water Wastewater |
REGISTER TO ATTEND SESSIONS!

Register for any of the technical sessions, hands-on labs and forums you plan on attending at the 2017 Automation Fair® event. Please note, registration is required to attend any session.

1 Register to Attend the 2017 Automation Fair® Event

2 Register for Technical Sessions, Hands-on Labs and Forums
Register to attend technical sessions, hands-on labs and forums. You must register to attend the 2017 Automation Fair® event before signing up for sessions.

Online: Go to www.automationfair.com and click on the “Registration” links.

Mobile App: Register for sessions using the mobile app. You must be registered to attend the event.
Visit www.automationfair.com/mobile.page for details about the app.

3 At the Automation Fair® event
Pick up your event badge from registration. Your badge will be your access into the sessions you are registered for.
You may modify your session schedule at the event by using the mobile app or the session change kiosks.

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.

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CONTROL

L05 Experience the New Capabilities of the CompactLogix™ 5480 Controller
This session will introduce and demonstrate the capabilities of our new CompactLogix™ 5480 controller. Learn the power of Logix and Windows in one controller. The presentation will cover target applications, teaching the value provided by the features.
CH MC OG PE

L12 Studio 5000® and Logix: Basics Lab
New to Logix programming or need 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 help ensure a good design and prepare you for the advanced session.
AT FB LS OEM WW

L13 Studio 5000® and Logix: Advanced Lab
This advanced Studio 5000® and Logix 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.
AT FB LS OEM WW

L14 Experience Connected Components Workbench™ Software to Develop Your Basic Standalone Machine Application
This lab will guide you through the programming of a simple machine motor control application using the latest Connected Components Workbench™ software. The control solution will consist of a Micro800® Programmable Logic Controller (PLC), a PanelView™ 800 graphic terminal and a PowerFlex® variable frequency drive.
OEM

L15 Tools that Simplify Product Sizing and Selection
Use 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.
FB OEM

INFORMATION & VISUALIZATION SOFTWARE

L02 Experience the ThinManager® Platform’s Power and Simplicity: Basic Lab
This lab introduces the primary building blocks of the ThinManager® platform while demonstrating its ease of use and flexible content delivery options within a FactoryTalk® environment. This session includes hands on training with the latest Rockwell Automation® industrial grade thin client, the VersaView® 5200.
CH MC OG PE PP TCE WW
L06 Health and Diagnostics at Your Fingertips with FactoryTalk® Analytics for Devices

Learn how to apply our analytics appliance to real-world scenarios to diagnose issues and make your engineers more productive. You’ll see how easy and intuitive the product is to use, and have a chance to interact with the Shelby bot built inside!

AT CH FB LS MC OG PE TCE WW


This hands-on lab provides an overview of some features in FactoryTalk View® Studio for Machine Edition that can help increase your productivity. Topics include using Logix Extended properties, Runtime Security and RFID, Electronic Signature, plotting two or more variables against each other, and advanced Alarm features. See how these features can help you get more work done in less time.

AT OEM PP WW

L21 Distributed HMI with FactoryTalk® View Site Edition: Introductory Lab

Learn about the basic capabilities and features of a FactoryTalk® View Site Edition application for both desktop and mobile in this hands-on lab. 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.

AT FB LS OEM WW

L22 Studio 5000 View Designer® Featured on the PanelView™ 5000 Graphic Terminals

Learn how to increase productivity with Studio 5000 View Designer® software and PanelView 5000. Topics include creating a new application, using built-in animation for graphic elements, configuring basic security, exploring runtime diagnostics, using Add-On Graphics and configuring runtime-language switching. This lab will also cover new features such as data logging and historical trending, VNC, PDF viewer and emulate.

AT OEM

NETWORKS & SECURITY

L01 Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures

Learn a variety of techniques and best practices using EtherNet/IP, including Stratix® 5700 and Stratix® 8000 hardware familiarization. You will configure Stratix® switches using the Device Manager, the AOP and controller tags in Studio 5000®, use the Stratix® FactoryTalk® View faceplates for diagnostics, and see configuration and diagnostics of a Device Level Ring (DLR) Topology.

AT FB LS OEM WW

L03 Introduction to Network Security: Lab

Learn how to increase productivity with Studio 5000 View Designer® software and PanelView 5000. Topics include creating a new application, using built-in animation for graphic elements, configuring basic security, exploring runtime diagnostics, using Add-On Graphics and configuring runtime-language switching. This lab will also cover new features such as data logging and historical trending, VNC, PDF viewer and emulate.

AT FB LS OEM WW

L04 Design, Management, and Implementation of FactoryTalk® Security in a Distributed Control System

Learn to design and build a FactoryTalk® Security infrastructure. In this lab, you’ll configure FactoryTalk® Security for the first time after a default installation; configure users and groups, system policies, and secured actions in the FactoryTalk® Administration Console to manage access control and permissions; and apply basic security restrictions to Studio 5000 Logix Designer® projects.

AT CH MC OG PE TCE WW

POWER, MOTION & MOTOR CONTROL

L07 Integrated Motion on EtherNet/IP: Basic Lab

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.

AT OEM PP

L08 Speed Integration: CENTERLINE® MCCs, Studio 5000® Logix Designer and IntelliCENTER® Software

Experience the ease of integrating CENTERLINE® Motor Control Centers (MCCs) with EtherNet/IP and their associated components — PowerFlex® drives and E300™ Electronic 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.

AT CH FB LS MC OG PE TCE WW

L09 PowerFlex® Drives Configuration and Programming

Learn how to 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 can help enhance your user experience and reduce development time. Learn how Automatic Device Configuration can help save valuable time to get your machines back online faster.

AT OEM PP WW

L20 Integrated Motion on EtherNet/IP: Advanced Lab

This hands-on lab showcases how our Integrated Architecture® system takes motion to the next level. This session will be based on the new ControlLogix® 5580 controller, 5069 Compact I/O™ and Kinetic® 5700 servo drives and demonstrates how they combine to boost motion performance to unprecedented levels.

AT OEM

PROCESS SOLUTIONS

L16 Model Predictive Control Within the Logix Controller

Learn about Model Predictive Control (MPC) and how it increases capacity, quality and performance. Learn to use the new Process Library MPC Accelerator tools to make deployment easier and quicker. In addition, the MPC in the chassis is simple and robust. Learn how to develop advanced control or execute strategic project steps.

AT CH FB OG PE PR TCE WW

L17 Introduction to the PlantPAx® Distributed Control System for Operations and System Engineering

Explore the PlantPAx® DCS within a simulated plant environment through the eyes of an operator or system engineer. You will learn about navigating and interfacing with key system functions in a utilities and batch area, and how to execute simple configuration changes and add a new control strategy using the Rockwell Automation® Library of Process Objects.

AT CH FB LS OG PE PR PR WW

SAFETY & COMPLIANCE

L10 Develop Safety Applications Using Guardmaster® 440C- CR30 Configurable Safety Relay

Learn to use the Guardmaster® 440C-CR30 Configurable Safety Relay to support small to intermediate safety applications. Initially implementing a basic E-stop Safety Function, you will build Safety Functions - all using the Add-on Profile in Studio 5000 Logix Designer® — and diagnostic communication to a Logix controller.

AT OEM ST

L19 Develop Advanced Safety Applications Using the Allen-Bradley® GuardLogix® Integrated Safety Controller Platform

In this lab, you’ll learn how to use Allen-Bradley® GuardLogix® Integrated Safety Systems to support intermediate to advanced safety applications using a single controller and programming environment for safety, discrete, motion and drive functions, with secure, seamless connectivity to plantwide information systems.

AT OEM ST

SYSTEM

L11 Smart Sensors for Your Architecture

This lab highlights Allen-Bradley® smart sensors and how they enable The Connected Enterprise by providing seamless visibility of your processes through the Integrated Architecture®. You will experiment with the latest smart sensing technologies and find out how they can apply specific features to solve sample applications.

FB OEM TCE
Technical Sessions

Technical sessions are sixty-minute presentations by leading industry and product experts. See page 10 for information on how to register.

**Ideal Days Key:**

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**CONTROL**

**T02** Aparian, Inc.: DNP3 Integration in Logix Based Control Systems

This introduction to the DNP3 protocol and its seamless integration with Logix using the Aparian DNP3 Router will explain how to transform a Logix controller into a DNP3 Master or Outstation, and how to take advantage of Report-by-Exception mechanisms to maximize communication efficiency in the utilities and water wastewater industries.

**T10** FANUC: PLC Motion Controlled Interface: Custom Add-on Instruction Sets

This session will demonstrate PLC Motion Controlled using a set of custom FANUC AOs in compliance with PLCopen standards to perform a simple pick-and-place operation. The focus is to leverage the experience of controls engineers to program robotic motion without having years of robot programming experience.

**T11** ProSoft Technology: Help Reduce CAPEX and Increase Production for Oil and Gas Applications

By utilizing innovative technologies from ProSoft Technology, you can reduce capital expense while increasing production and achieving greater access to critical information regarding your oil and gas operations. With solutions such as a Logix-based flow computer, wireless technologies and remote monitoring, you can bring the digital oilfield to life.

**T39** 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.

**T40** What’s New in Connected Components Workbench™ Software?

New features released in Connected Components Workbench™ software assist in reducing design and setup time of small machine applications with a single project for all devices. Learn about the new Micro870™ controller and PanelView™ 800 VNC server support and connectivity to CompactLogix™ 5370 controllers.

**T48** Integrate Your Power & Automation Control Systems

With the availability of intelligent devices, it is easier to have access to real-time information on the equipment and operating conditions in your substation. Learn how we approach the integration of electrical devices into the Logix architecture to enable a single integrated power (or electrical) and automation control system.

**T70** Introduction to FLEX 5000™ I/O, the Next Generation of FLEX™ I/O

What happens when you combine FLEX™ I/O with our 5000 series I/O platform technology? FLEX 5000™ I/O provides enhanced communication with 1GB EtherNet/IP connectivity, mix-and-match capability of standard and safety with up to SIL3-rated modules and flexibility with support for Copper and Fiber Ports (SFP), Star, Ring and PRP topologies.

**INFORMATION & VISUALIZATION SOFTWARE**

**T08** SyTech, Inc.: Automate Regulatory and Compliance Reports

Do you spend significant time preparing regulatory reports? What if you can automate it using templates government agencies provide? This session demonstrates the setup of Excel templates with XLReporter to automatically produce regulatory reports for industries such as water wastewater.

**T35** 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.

**T36** Cloud-based Machine Analytics for Machine Builders

Learn how FactoryTalk® Analytics for Machines enables cloud-based remote monitoring of manufacturing assets for OEMs. Now machine builders can remotely monitor their equipment after it is deployed at customer sites anywhere in the world. They can help end users reduce downtime, identify asset maintenance needs and reduce the number of costly site visits, all while ensuring their machines are running at the expected levels of performance.

**T54** eRPortal Software Group, LLC: How to Mitigate Down Time Using IoT and The Connected Enterprise

eRPortal’s corrective action and notification platform provides automatic notification and instruction workflows anytime FactoryTalk® tags indicate fault conditions. A visual heatmap displays what assets are at risk, down or running. Mobile users see asset statuses based on proximity and critical spares availability at distributors “nearby” is exposed in real time.

**T55** Stone Technologies Inc: Rockline Industries Increases OEE Over 20 Percent with Data Analytics Solution

Learn how Rockline increased OEE and throughput by more than 20 percent. Using insights from automated data collection, understand how operational managers have taken advantage of incremental capacity on production lines. Rockline achieved a three-month payback on initial project over 10 years ago and continues to use the system daily. Stone Technologies, a Rockwell Automation® Information Solution Partner, designs and delivered the solutions at Rockline.
T66  Technology Innovations and Collaboration Tools to Improve Operations Management
Easily shareable information encourages collaboration—whether in a single plant or spread across an enterprise and the globe. Technologies are creating an environment that allows you to see and share operational information, enabling improved performance and reduced downtime. Learn how to achieve better results and drive increased profitability... available in a collaborative mobile app.

T67  Delivering Manufacturing Insights and Analytics for Better Decision Making
Gaining analytics insights that extend beyond single-equipment performance requires looking at multiple sources of data in a combined way. It’s becoming common for companies to look at manufacturing data combined with safety, product field performance, warranty data, and other non-traditional content. Learn how to build a strategy through actual examples.

T68  Asset Management to Help Protect Your Investments and Reduce Risk
Modern facilities have thousands of assets. How are you managing all those assets and protecting your investment? How do you manage the inventory with all the versions of firmware and software running? Learn how Asset Management can help protect your investments, reduce risk, reduce downtime and better manage production lifecycles.

T69  HMI Modernization
Keeping your HMI current means greater security, better usability and more flexibility for your system. Learn about the modern capabilities of an Allen-Bradley® HMI system, including distributed, machine level and mobile solutions, and discuss the benefits of modernizing your system by migrating, upgrading or implementing new capabilities found in the latest versions.

NETWORKS & SECURITY

T01  Select the Right Stratix® Switch for Your Application
There are many options to consider when choosing the appropriate industrial switch for your network—from unmanaged, lightly managed and fully managed versions. Learn how to get the balance of functionality at the right price-point for your application, and see how they are used within Converged Plantwide Ethernet tested and recommended network architectures.

T12  MTS Systems Corp. Sensors Division: EtherNet/IP + IO-Link: Selecting the Appropriate Output for Your Linear Position Sensor
Examine the differences between EtherNet/IP and IO-Link output protocols for linear position sensors. This session will explore which type of applications will likely benefit from each protocol, some common questions about each, as well as what output setup looks like.

T17  RF Ideas Inc: ID Badge Readers Enable Information Collection and Access Authorization
Existing Employee ID badges address today’s manufacturing challenges that go beyond getting inside the door. Increase overall security with authorization for specific users for specific screens. RFID-enabled badge readers help users improve, control and protect operations while improving regulatory compliance.

T22  Improve Visibility and Diagnostics of Your Network with the New Network Management Software (NMS)
Network Management Software (NMS) can help improve your industrial network visibility and troubleshooting procedures by providing intuitive network information within context of the automation system designed for the non-IT personnel. Discover plant floor assets, automatically create “as-built” topology of managed switches and devices, with live device-centric views for real-time configuration. NMS also monitors the network for alarms, events and audits which are automatically captured and provide for historical analysis.

T23  HMS Industrial Networks AB: Adding Wi-Fi Connectivity to Systems to Improve Efficiency
Leverage HMS Anybus Wireless solutions to add Wi-Fi connectivity to any machine without significant redesign. Learn how to integrate the Anybus Wireless system with a Rockwell Automation® PLC allowing for remote local access. Use local wireless to allow employees to access data at remote stations without leaving the truck.

T24  Cisco Systems, Inc.: Digital Manufacturing Solutions in Practice
See how Cisco solutions improve asset availability, performance and quality in real customer scenarios. Understand customer challenges and solutions to achieving outstanding business outcomes. Products and solutions such as Stratus™* and Converged Plantwide Ethernet have helped customers improve quality, improve efficiency and uptime, reduce costs and prepare for future growth.

T26  Phoenix Digital Corporation: Mission Critical Redundant Bridge and Tunnel Control and Automation at Louisville, KY
To alleviate traffic congestion in Louisville, KY, a new bridge and tunnel were installed with state-of-the-art automation and control. Critical to this technology was an easy to install and maintain redundant fiber-optic communication system. Learn how the bridge authority was able to implement a highly available system that they were able to self-maintain and support.

T28  Stratus Technologies: Modern Computing Infrastructure for The Connected Enterprise
A connected enterprise requires deploying sophisticated software solutions. Learn how to design in security, performance, reliability and support by using Converged Plantwide Ethernet (CPwE) design recommendations, virtualization and fault-tolerant computing.

T29  Zebra Technologies Corporation: Plant and Asset Visibility Enablement: PLC Connectivity and Smart Sensing
From implementation through ongoing management and visibility, Zebra Technologies is making it easier and more cost-effective to integrate best-in-class barcode scanning and label printing into EtherNet/IP connected PLC controlled systems. Learn how IoT solutions that sense, analyze and drive actions help make operations more visible and responsive.
**Technical Sessions**

**T82  Logix Security for Machine Builders and End Users**

Studio 5000 Logix Designer® is introducing a new way to control access to selected routines and add-on instructions using software licensing technology. Additionally, FactoryTalk® Security can now be used by machine builders and end users to enforce policies for accessing controllers and content.

AT FB OEM TCE

**T83  Identity and Mobility in Converged Plantwide Ethernet (CPwE) Architectures**

A defense-in-depth security approach requires enforcement of authentication and authorization policies for users of mobile devices running applications such as FactoryTalk® TeamONE™. This discussion reviews the use cases and design considerations to successfully deploy Identity and Mobility Services within the Cisco and Rockwell Automation® CPwE architecture using the Cisco Identity Services Engine (ISE) and Unified WLAN.

TCE WW

**T89  Design Considerations for Reliable EtherNet/IP Networking**

Review the considerations to help you design and deploy a scalable, more reliable, more safe and future-ready EtherNet/IP network infrastructure. Topics will include segmentation techniques, data prioritization, resiliency, structure and hierarchy.

AT FB TCE WW

**POWER, MOTION & MOTOR CONTROL**

**T07  Southwire Company: VFD Cables**

Learn what VFD cables are, why you should consider installing them as part of your VFD System, what system problems they address, how they reduce or prevent PLC problems, motor problems, cable failures, drive trips and how they can help increase your energy savings.

FB MC OG PE PP WW

**T13  Installation Considerations for Drives**

There are many installation factors that could affect your drives capabilities. Have you considered the temperatures it will be exposed to? Is the atmosphere dusty or humid? This session will cover installation considerations and the factors that you may need to consider to mitigate risk.

CH MC OEM OG PE WW

**T16  BCP Group: Reduced Energy Consumption by the Use of CILA2S PMM**

CILA2S ESP PMM is BCPGroups’ Intelligent Artificial Lift Controller for Electrical Submergible Pumps (ESP), based on Rockwell Automation technology. Using real field data, learn how the cost comparable IM solution and the PMM solution both help reduce energy consumption by 17-25%.

OG

**T20  MagneMotion® and iTRAK*: Introduction to Independent Cart Technology**

Independent cart technology is up-ending traditional motion control paradigms and Rockwell Automation is leading the industry with this new breed of motion control systems. Learn about how these solutions will be cornerstones in the factory of the future allowing unprecedented flexibility and speed on machines, without increasing machine size.

AT FB LS OEM

**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.

AT OEM

**T38  What’s New in PowerFlex® Drives**

Learn about the new capabilities and advanced features of today’s PowerFlex® drive portfolio. Get an update on the latest additions to the low and medium voltage families and how new motor control capabilities, safety options, TotalFORCE™ Technology and predictive diagnostics can keep your production running.

AT CH MC OEM OG PP PP ST WW

**T90  Motor & Power Control Solutions for Oil & Gas Applications**

In the oil and gas industry, you need to manage costs, extract the most value possible from assets and maximize uptime. Today’s motor and power control technology make it possible to measure increased efficiency and productivity and connect across your automation systems to deliver a real-time and actionable view into operating data to help remain competitive.

OG TCE

**PROCESS SOLUTIONS**

**T05  Pepperl+Fuchs Inc.: 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 and introduce the WirelessHART EtherNet/IP gateway and how it integrates into ControlLogix® control systems.

CH OG PE PR WW

**T15  Endress+Hauser: NAMUR NE107: Advanced Diagnostics Help Enhance Plant Safety, Quality, and Availability**

Plant safety is critical in all industries. Advanced diagnostics, which meet the requirements of NAMUR NE107, can provide operators with 24/7 device monitoring and diagnostic analysis and on-demand traceable verification. In this session, learn what NAMUR NE107 is, how you can implement safety in your plant while reducing downtime and which products meet the standard.

FB LS PR ST TCE

**T19  JMP Engineering Inc: Using PlantPAx® & VantagePoint® in Application of Steam CHP (CoGeneration) Project**

Learn how using Steam generators for electrical/thermal energy on a $27 million CHP automotive project, CEM increased efficiency and cost savings, reduced emissions, and saved energy for 7,400+ homes/yr. JMP provided controls system, data collection, and reporting system; PlantPAx®, as base platform for Balance of Power controls; and VantagePoint® provided real-time performance data.

PE PR

**T41  Batch Management: What’s New and What’s Next**

Explore the features and new capabilities of FactoryTalk® Batch Version 13 software and get an overview of new offerings such as controller-based sequencing with the SequenceManager™ solution and new mobility capabilities with FactoryTalk® BatchView™ software. Get a preview of upcoming features and capabilities of the Rockwell Automation® portfolio of batch and sequencing products.

CH FB LS OEM PR
T60  Advanced Energy: Temperature Management and The Connected Enterprise: Turning Data into Information

Connectivity-enabled thermal products support real-time decision-making for predictable manufacturing outcomes and agility in a changing marketplace. With exclusive Add-on Profiles (AOP), Advanced Energy’s Thermo-Family power controllers and Onyx™ series pyrometers integrate easily into the Rockwell Automation® architecture, providing valuable performance data to support efficiency and productivity throughout The Connected Enterprise.

T61  Control Station Inc.: PID Tuning Made Simple: Optimize Complex Loops in Six Easy Steps

Tuning PID control loops can be a regular source of frustration. That is especially true when dealing with non-linear level, sluggish temperature and valve stiction. This session showcases a step-by-step procedure for tuning complex PIDs that is intuitive and repeatable, using Control Station's LOOP-PRO TUNER.

T62  Hardy Process Solutions: Groundbreaking Dynamic Checkweighers Designed for The Connected Enterprise

Learn how Hardy's new family of checkweighers deliver the benefits of Open Source (programmable with Studio 5000®), Off-the-Shelf (made with Allen-Bradley® components) and Seamless Integration (FactoryTalk® data management). We listened to the needs of manufacturers and leveraged the Rockwell Automation® premier integration model. This novel approach seamlessly integrates equipment data, control and analytics into plant-level and enterprise networks.

T71  Migration Tools to Convert Your Legacy DCS and PLC-5® Systems to the PlantPAx® System

Are today's optimization and innovation demands hampered by your old process control system? Is support for your legacy DCS diminishing? Explore the advantages of migrating your legacy DCS or PLC-5® (systems to the PlantPAx® system) and learn about tools from Rockwell Automation that can help you migrate your systems at a comfortable pace.

T72  Process Safety and Safety Instrumented Systems: Comprehensive Solutions Portfolio for Fail-safe to TMR Safety Applications

Choosing the correct safety solution to meet availability and safety requirements is critical. Learn the latest changes in ISA 84 and ISA611 standards and certifications. Explore scalable offerings from SIL 1 through SIL 3 to fail-safe, fault-tolerant and triple modular redundant, and learn which is best to help improve efficiencies and performance.

T73  PlantPAx® System – What's New & What's Next

In this session, you will hear a brief overview of the PlantPAx® distributed control system and the latest release of features. Each feature will be detailed in full including the benefits of the modern DCS approach compared to traditional DCS systems.

T74  Exploring the Functionality of the Rockwell Automation® Library of Process Objects

The Rockwell Automation® Library of Process Objects lets you quickly develop process solutions with rich functionality and known performance. Learn how the objects function within a typical process control system, including the common library features such as modes, alarms, and features for operations, maintenance and engineering personnel, and hear about the new features for the 3.5 library release.

T75  Prime Controls LP: University of Texas Modernizes Utility Controls System with PlantPAx®

In support of the new Dell Medical Center Expansion, Prime Controls with Rockwell Automation provided a turnkey Control System Upgrade for the CS7 Facilities Chilled and Hot Water Plant. A PlantPAx® system was implemented via a design of Redundant ControlLogix® processors as well as Redundant FactoryTalk® SE Servers.

T76  Revere Control Systems Inc: How Plant Capacity Increased with Laminated Beam Press Control Modernization

Forecast demand for the coming years exceeded the current capacity of this wood products plant. The migration for this laminated beam press was essential to bringing the press on line and meeting demand. Plant production required alignment with corporate standards and removal of obsoleted equipment.

SAFETY & COMPLIANCE

T09  Ross Controls: Safety Standards Update with a Focus on Fluid Power

Within the past two years ISO 13849 Safety of Machinery, ANSI B11.0 General Safety Requirements, ANSI Z244 Energy Isolation & Alternative Measures, B155.1 Packaging & Processing Machinery were updated with B11.19 and B11.26 currently being updated or released. Learn some of the changes and specifically the effects on fluid power safety systems and circuit design requirements.

T18  Pentair - Hoffman: Boxing Up Electrical Safety: Methods to Help Reduce Risk through Design

Learn about how the enclosure design can help reduce exposure to electrical hazards. We'll focus on best practices for reducing risks associated with disconnect switches and highlight different designs that can enhance electrical safety. You'll also gain a better understanding of product and safety standards and how these are driving safety by design.

T28  Arc Flash Hazards and Arc Resistant Equipment – 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® 700D and arc assessment services.

T29  Safety System Connectivity: Help Reduce Cost, Downtime and Injuries

Connectivity is critical to keeping workers more safe and productive. This session includes understanding capabilities of smart safety devices in a streamlined Logix architecture, the use of AOPs for safety services, design requirements for integrating CIP safety-enabled devices, and the impact to the safety integrity of the system.

T42  Det-Tronics: Provide Life Safety through a NFPA 72 Flame/Gas Detection System

This session will describe how the Det-Tronics SIL-2 capable, fault-tolerant flame and gas pre-action system, certified to the latest standards for hazardous locations, has the unique capability to communicate on a DLR, creating a total integrated system that reduces complexity and the time needed for installation, programming and maintenance.
T43  Littelfuse Inc.: Design Strategies that Improve the Electrical Safety of Systems
Designing the right components into electrical systems can greatly improve system safety. Littelfuse discusses which components will make facilities safer by reducing incident energy levels, mitigating arc flash risk, and minimizing danger of electrical shock while enabling compliance to codes and standards.
PR

T77  Improve 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.
AT FB OEM ST

T78  Improve Safety and Compliance Using The Connected Enterprise
Reducing enterprise risks, and improving security, worker safety, and productivity are paramount to manufacturing success. This session will discuss how risks can be identified by geography or machine type, operator behaviors can be addressed, and machinery safety compliance improved by utilizing data already available in your control system.
TCE ST

T79  Introduction to the Allen-Bradley® Integrated Safety System
In this session, you’ll be introduced to the Allen-Bradley™ 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 more secure, seamless connectivity to plantwide information systems.
AT OEM ST

T80  Introduction to Machinery Safety Application Design
Take the mystery out of machinery safety systems by designing an actual application utilizing the safety lifecycle. The process includes risk assessment, risk mitigation, component selection, functional requirements specification, circuit design and logic. In this session, you will help design the circuit and perform verification testing via practical application of functional safety principles.
AT OEM ST TCE

T81  Streamline the Safety System Development Process
You’ll learn to dramatically reduce safety system development time using the Rockwell Automation® suite of safety development tools. You’ll determine return on investment for safety projects, design safety functions and systems, select appropriate safety devices, verify and document that your system meets global safety standards increasingly specified by manufacturers.
AT OEM ST

T24  Safe and Secure – Help Mitigate Your Risk through Services and Technology
The convergence of cyber security and safety has never been more important than it is today. Learn about emerging standards and recent threats, and see how through a combination of professional service, managed services and technology you can mitigate your risk today.
CH FB LS MC OG PE PP TCE WW

T25  Leverage the Digital Enterprise to Maximize Asset Performance
Operations and maintenance continue to get challenged to drive towards near zero downtime and do so with the lowest operating cost. This session will discuss how companies are overcoming these challenges by acting on maintenance insights and how smart assets and strategic services can maximize asset performance.
AT CH FB LS MC OG PE PP TCE

T26  Drive Operational Productivity with Integrated Services
Pressures to improve productivity are felt from all directions. Finding additional productivity can be daunting with an aging workforce, rising costs of downtime, an ever-growing skills gap and the advent of connected devices. Learn how to bridge this gap by leveraging integrated services and the digital world.
OG TCE

T27  Optimize the Digital Oilfield with ConnectedProduction™
Where big data, information management and the Internet of Things meet the oil and gas industry is where you will find Rockwell Automation® ConnectedProduction™. Learn how ConnectedProduction™ is helping to manage the changing requirements for today’s digital oilfields.
OG TCE

T49  Emulate3D: AMHS Virtual Commissioning Software Enables Robust Offline Controls Testing
Connect PLCs to a functionality accurate model of your fulfillment center, assembly line or baggage handling system to test your control logic offline. Begin testing earlier than would otherwise be possible and run repeatable load sequences through the system in complete safety, off-site. Save time and money with virtual commissioning.
AT OEM

T50  EPLAN Software & Services: PLC Data Exchange Between Electrical Controls Design and Studio 5000®
Increasing productivity in electrical controls design and PLC logic development is challenging, from a technical and process workflow perspective. Mitigating electrical connections, errors between the PLC hardware and the control circuits increases productivity and quality. EPLAN Software provides a bi-directional interface to Studio 5000 Architect®, fostering a more efficient workflow.
CH MC OG PE TCE

T51  Grace Engineered Products, Inc.: Find Faults Before They Find You – Continuous Hot Spot Monitoring
Hot spots arising from high fluctuating currents and resistance are the greatest enemy of the electrical systems, affecting equipment performance and useful life, while increasing arc flash hazards. NFPA 70B instructs facilities to identify hotspots early before they cause any problems critical to equipment health and to preventing devastating arc flashes.
PE ST
Upgrades to Motor Control Centers

In systems where the install base includes industrial Ethernet and Fieldbus protocols, maintaining communication across devices is critical. Upgrading these systems isn’t always feasible. Learn how a single WebPort Gateway device can connect multiple devices, each with a different protocol, saving you money and the headache of configuring multiple gateway devices.

Panduit Corp: Physical Network Upgrades to Motor Control Centers

Non-Ethernet/IP-enabled MCCs are hard to monitor and maintain, creating a gap in your overall IIoT strategy. An alternative to purchasing new is to upgrade. Learn how the Panduit solution follows a validated architecture and can enable rapid field deployment with reduced risk for MCC upgrades.

T33 Multiwell Pad Solutions with Integrated Architecture® Design

The oil and gas industry is embracing Multiwell Pad design for its environmental and economic benefits, allowing operators to consolidate RTU and PLC functionality into a single platform. Learn how Rockwell Automation leverages Integrated Architecture® with Well Manager to provide these solutions.

T63 Why Move Automation to the Sea Floor?

Explore the benefits of moving automation and control to the sea bed. This session will highlight the ways Rockwell Automation is helping to solve the industry’s toughest challenges through eliminating complex automation and safety risk faced by subsea operators.

T64 Modern Science – Phased Modernization of Legacy DCS Systems in Chemical Plants

Modernizing your control systems to take advantage of The Connected Enterprise can be challenging. Prioritizing needs, adhering to schedules and maintaining production with limited CAPEX can create paralysis. This session focuses on prioritizing and executing phased modernization while mitigating product obsolescence risk for legacy DCS systems in chemical plants.

T65 Spectrum Controls Inc: Single Solution for Connecting Multiple Devices, across Multiple Protocols

In systems where the install base includes industrial Ethernet and Fieldbus protocols, maintaining communication across devices is critical and upgrading the equipment isn’t always feasible. Learn how a single WebPort Gateway device can connect multiple devices, each with a different protocol, saving you money and the headache of configuring multiple gateway devices.

Panduit Corp: Physical Network Upgrades to Motor Control Centers

Non-Ethernet/IP-enabled MCCs are hard to monitor and maintain, creating a gap in your overall IIoT strategy. An alternative to purchasing new is to upgrade. Learn how the Panduit solution follows a validated architecture and can enable rapid field deployment with reduced risk for MCC upgrades.

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Smart devices deliver real-time control and information that feeds up through your connected plant. This session will provide an overview of some of our smart devices - including smart motor control, sensors and safety - and show how they can help during the design, operation and maintenance of The Connected Enterprise.

T30 Smart Devices: Design, Operate and Maintain The Connected Enterprise

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T31 What’s New in Studio 5000®

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.

THE CONNECTED ENTERPRISE

T06 WIN-911 Software: Next Generation Alarming

This session will introduce our next generation solution and new license levels. We will talk about how the changing IIoT landscape makes alarm notification even more important, as well as how to talk about the value WIN-911 brings to your FactoryTalk™ clients.

T14 MECCO: Track-and-Trace for Oil & Gas Parts Manufacturing

For oil & gas industry manufacturing and fabricating, identifying parts can present unique challenges. In this session, we will explore how this industry can improve part identification and utilize track-and-trace technology to improve efficiency.

T21 Deliver the Plant of the Future Today

Learn how Cisco and Rockwell Automation are collaborating to help you prepare for your Plant of the Future. From planning and design of your network infrastructure, to thoughtful security that addresses your risk tolerance, to applying cost-effective computer resources to meet your analytical needs and improve productivity and quality.

T22 Cyber Security — Why and Where Do I Start?

Securing The Connected Enterprise requires a holistic defense-in-depth approach. This discussion will address various system-level scenarios with consideration to the attack continuum, how to best utilize the breadth of solutions offered by Rockwell Automation and our partners, and discuss developing standards and regulations around security and the Rockwell Automation approach for building security into their products.

T23 Leverage the IIoT Infrastructure to Help Drive Results

A smart manufacturing approach needs a robust IIoT infrastructure that enables the integration of smart devices, the control architecture and operational software on a single secure network. Learn how to leverage contemporary cloud and analytic platforms to digitize your enterprise, and modern approaches that break through boundaries not considered before, allowing innovative new approaches to productivity and new markets.

T44 Motorola Solutions: Use Unified Workgroup Communications to Connect Front-Line Employees

SeQuent and Motorola Solutions will jointly present and discuss the key challenges manufacturers face when building a bridge from plant floor automation systems to communication devices. This session will include a turnkey demonstration of how Rockwell Software® Alarms & Events can be dispatched to the Motorola Team Communications platform.

T45 Interstates Control Systems Inc.: Starting the Journey to The Connected Enterprise

Interstates Control Systems examines the path towards a connected enterprise. Evaluating the current state of infrastructure, controls, process management, and data flow is a critical first step. Learn how establishing risks and priorities for future improvements is helping clients prepare for the next step in the path to being “connected”.

T46 Softing (OLDI); Connect ControlLogix® to Manufacturing Execution Systems (MES)

Did you know that the ControlLogix® control system has a standardized solution to enable IoT that doesn’t require custom programming? Did you know there is an in-chassis module that slides into ControlLogix and connects you to SQL databases? Leave your C++ code behind, and start monitoring production metrics and downloading recipes today.

Find session and hands-on lab registration information on page 10
**T47  Tripwire: Unobtrusive Cyber Security with Tripwire and Rockwell Automation® AssetCentre**

As ICS environments become increasingly connected, implementing cyber security controls that enhance the reliability and resiliency of systems is essential. Explore a hybrid approach to securing critical infrastructure that enables both IT and OT teams to monitor changes, identify threats and vulnerabilities and reduce risks in a non-invasive, non-disruptive way.

**T84  Develop a Secure Architecture for The Connected Enterprise**

New innovative technologies like cloud, and new service models like remote monitoring are helping to improve operational efficiency. Learn about the architectural security framework and solutions to help improve the availability, integrity and confidentiality of the architecture.

**T86  Demystify Industrie 4.0**

Industrie 4.0 is a German-government-sponsored vision for advanced manufacturing. Learn why Industrie 4.0 is different from fieldbus wars, what key technologies are involved and how they interact (OPC UA, AutomationML, IEC 61360 and TSN). This session will also demonstrate how The Connected Enterprise is enabling Industrie 4.0 through practical examples.

**T87  Where to Begin Your Digital Transformation**

To achieve the benefits of a connected enterprise, proper planning is important. Our global consultants have the right balance of technology and industry expertise to initiate a step-by-step process to evaluate, design, deploy and manage projects. Our mission is to help reduce your risk and maximize your return on investment.

**T88  Move towards The Connected Enterprise by Modernizing Your Control and Information Systems**

Modernization of discrete and continuous control systems to provide access to actionable information for more informed business decisions, faster performance for more throughput and agility via greater capacity. This session describes the tools, utilities and services available to help you analyze, plan and execute your modernization strategies.

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WORKFORCE OF THE FUTURE

Highly engaged students become highly motivated employees. The kind of employees who will help us to better serve you – and help you create, innovate, and deliver value for your customers.

It’s no secret that we’re facing a global workforce crisis – we need more students following a STEM (science, technology, engineering and math) path so they can be the innovators of the future.

That’s why we support STEM education. This is how we’ll help address the growing industry skills gap, and foster diverse thinking – the kind of thinking that supports the sophisticated technologies that are the hallmark of modern industrial automation and information.

For us, STEM is more than textbooks and course work. The programs we support, including FIRST (For Inspiration and Recognition of Science and Technology), deeply engage students in problem-solving with a key component: having fun.

It’s more than game-playing. We support STEM because when we help students see what’s possible in STEM, we help them see their future, with our company, and with yours.

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 the Automation Fair® event, 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.

Visit our STEM booth to learn more about the programs we support – maybe it’ll give you ideas on how to start a program at your company. Also, watch and interact with local students showcasing their FIRST robots and try our newest activity, ST Math Play.