Join us for the 2018 Automation Fair® Event

PLAN YOUR DAYS AT THE 2018 AUTOMATION FAIR® EVENT

Attending Automation Fair® equips you with unmeasurable knowledge and skill-building opportunities in just two days.

To help you plan your time at the event, we’ve organized the sessions and labs by the following tracks:

- Control
- Information Solutions
- Network Infrastructure
- Power, Motion, and Motor Control
- Process Solutions
- Safety and Security
- Services and Solutions
- System
- Visualization

IDEAL DAYS

Ideal Days focus on the following industries. To view an industry’s Ideal Day planner simply click on the industry name or visit www.automationfair.com.

- Automotive & Tire
- Chemical
- Food & Beverage
- Life Sciences
- Marine
- Material Handling
- Mining, Metals & Cement
- OEMs/Smart Machines
- Oil & Gas
- Power & Energy
- Pulp & Paper
- Water Wastewater
- Workforce Development
ROCKWELL AUTOMATION

EVENTS ROK! MOBILE APP
Coming soon! Look for the mobile app and get even more out of the Automation Fair®! 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 for up-to-date information.

Join us for the 2018 Automation Fair®!

PENNSYLVANIA CONVENTION CENTER
Wednesday, November 14 – 8 a.m. to 5:30 p.m.
Thursday, November 15 – 8 a.m. to 4 p.m.

HOW TO REGISTER
For detailed information on how to register, visit www.automationfair.com.
**Co-located Events**

**PROCESS SOLUTIONS USER GROUP (PSUG) 2018 ANNUAL MEETING**

**Monday, November 12 - Tuesday, November 13**  
Pennsylvania Convention Center, Philadelphia, PA

Join us for our annual Process Solutions User Group (PSUG) meeting prior to the 2018 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 through voting 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**

PSUG registration ($499 through September 30; $649 after September 30) fee covers all sessions, labs, food and refreshments during the event. In addition, there is an optional Monday night dinner, networking and entertainment event at Reading Terminal Market.

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

**AUTOMATION PERSPECTIVES 2018 GLOBAL MEDIA EVENT**

**Tuesday, November 13 – 8:00 a.m. to 12 p.m.**  
Grand Hall Ballroom – Pennsylvania Convention Center, Philadelphia, PA

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.rok.auto/automationperspectives](http://www.rok.auto/automationperspectives)
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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Organizations

- Control System Integrators Association - CSIA
- SupplyFORCE

Publications

- Automation & InTech
- Automation World
- CFE Media
- Efficient Plant
- Putman Media
- SME Media
- The Journal

Universities

- Case Western Reserve University
- Georgia Institute of Technology
- Milwaukee School of Engineering (MSOE)
- Penn State University
- Purdue University
- Texas A&M University
- University of Michigan
- University of Wisconsin - Milwaukee

*Current as of September 26, 2018.
Rockwell Automation Booths

**Connected Services**

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.

**Engineered Our Future**

It’s no secret that we’re facing a global industry skills gap. Through the support of STEM education, we’re able to help foster diverse thinking – the kind of thinking that supports the sophisticated technologies that are the hallmark of modern industrial automation and information.

Want to get inspired? Stop by to interact with local students showcasing their FIRST robots, and meet students who will give you a test run of our newest activity, ST Math Play.

**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, sensing, analytics, collaboration and mobility.

**Integrated Architecture**

See how our control and information portfolio helps deliver a connected enterprise with smarter technology, enhanced productivity, and a more secure environment. Discover the value of our new products on real machines and in interactive demos. See the power of Logix technology and how it integrates discrete, motion, safety and process control into one common design environment with one network and one control engine. Talk to subject matter experts on security, analytics and collaboration tools.

**Intelligent Packaged Power**

In the Intelligent Packaged Power booth, Rockwell Automation will showcase how you can extend The Connected Enterprise by securely merging your Power Management and Controls environments into a single suite of tools for maximum visibility.

**myRockwellAutomation**

Be an early adopter of myRockwellAutomation.com, our new integrated digital experience. Interact firsthand with the website to personalize it to meet your needs and learn about the applications offered in our subscription portal. Try out free software and mobile apps that help you configure and select Rockwell Automation® and Encompass™ Partner products. Build and validate your systems, estimate your projects, and accelerate the mechanical and electrical design and set up your system!
Rockwell Automation Solutions

The Rockwell Automation Solutions exhibit will feature MAVERICK Technologies - a platform-independent systems integrator and a global leader in industrial automation, enterprise integration and strategic manufacturing solutions. MAVERICK Technologies can help identify suboptimal operations and improve safety, efficiency and overall profitability. Learn how we can help with automation services on projects such as DCS migrations, PLC upgrades, commissioning and startup, enterprise integration, operational consulting, field services, safety, compliance, and sustaining services.

Smart Devices

Smart machines allow manufacturers to better leverage the most powerful element that too few organizations are fully capitalizing on: their own real-time data. Learn how our portfolio of Smart Devices—smart sensing, smart safety and smart motor control—enable your Connected Enterprise by providing seamless integration and raw data to help enhance productivity machine- and plant-wide. Smart Devices are highlighted as part of our full line of industry-leading drives, industrial control and power control components.

The Connected Enterprise Industries Pavilion

The digital transformation of your entire operations and value chain – from components to systems and from suppliers to customers – is the key to hidden value which can make a significant contribution to the productivity, quality, compliance and profitability of your enterprise. Through interactive displays, OEM equipment, and featured demonstrations for the chemical, life science, food and beverage, water/wastewater and mining industries, the pavilion will showcase new automation technology developments and provide insight as to how Rockwell Automation® information solutions, process automation strategies, and services are helping both consumers and heavy industries reap the benefits of The Connected Enterprise.
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.

**Chemical**
Wednesday, November 14
9:00 a.m. – 11:00 a.m.

In today’s global business climate you are confronted with myriad challenges linked to cost controls, regulations, limited work force, 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.

**Food & Beverage**
Thursday, 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 companies are under pressure to get new, high-quality products through the facility quickly, while keeping prices low and food safe. Learn how industry leaders are increasing yield and OEE, tackling security concerns, and improving flexibility with smart manufacturing to support The Connected Enterprise.

**Life Sciences**
Wednesday, November 14
1:00 p.m. – 3:00 p.m.

Trends toward personalized medicine, the drive for operational efficiency, and risk and regulatory pressures are challenging Life Sciences companies to consider the Facility of the Future. Discover how best-in-class companies are implementing technologies like single use, mobility, analytics, and smart connected assets to reduce risk to production, brand and IP, while maintaining quality and compliance.

**Material Handling**
Wednesday, November 14
1:00 p.m. – 3:00 p.m.

Point A to Point B
Supply Chain Trends
Are you curious about the evolving material handling market? Attend this forum to expand your knowledge of the material handling market economy. You will gain insight on industry trends, what’s driving them and the current challenges affecting the market. Today, retailers are using automation technology in their front and back offices to deliver digital transformation, decrease cost, and increase operational efficiencies. During our panel conversation, you will have the opportunity to hear from leading retailers about new growth initiatives, implementation of new technologies, and using automation to improve consumer engagement.
Minning
Wednesday, November 14
1:00 p.m. - 3:00 p.m.

The mining industry is continually challenged to be profitable, regardless of the volatility in commodities prices. You look for ways to run a safe operation and comply with regulations while maintaining or increasing production rates. It is a tough situation, but the adoption of technology can help. This forum will look at how mining customers are adopting and using digital solutions to reduce unscheduled downtime, increase throughput and minimize process variability.

OEMs/Smart Machines
Wednesday, November 14
9:00 a.m. - 11:00 a.m.

Smart Machines for Smart Manufacturing (OEMs)
OEMs are challenged to continuously innovate to stay competitive and with the push for smart manufacturing underway, customers are looking for the ability to act on production intelligence, improve operations and respond to challenges created by the skilled-labor shortage. 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.

Power & Energy
Thursday, November 15
9:00 a.m. - 11:00 a.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.

Water Wastewater
Wednesday, November 14
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.

Workforce Development
Thursday, November 15
9:00 a.m. - 11:00 a.m.

Workforce Development: Unleash the Power of Your Workforce
The skills gap is real and all signs show that the difficulty in filling open positions will get worse before it gets better. Join our discussion on ways to help tackle this current phenomenon especially in the manufacturing sector. You’ll hear from a panel of employment experts, educators, and peers on how they are navigating and tackling today’s skills gap by leveraging new technologies to improve and empower employees. You’ll leave with a better understanding on how to accomplish aligning talent needs with business goals and the benefits of the return on employee investment.
Register to Attend Sessions!

Register for any of the technical sessions, hands-on labs and forums you plan on attending at the 2018 Automation Fair® event. Please note, registration is required to attend any session.

1. Register to Attend the 2018 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 2018 Automation Fair® event before signing up for sessions.

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.

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

Hands-On Labs

Hands-on labs are ninety minutes and allow you to work hands-on with Rockwell Automation products.

See left for information on how to register to attend the forums.

Control

L03 Experience Connected Components Workbench™ Software to Develop Your Basic Standalone Machine Application
   Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   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.

L16 Scalable Compute Hands-on Experience
   Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   This session will introduce and demonstrate the capabilities of our new scalable compute technology. You will get some hands-on experience using and configuring the Application Program Interface (API). Learn the power of Logix and Windows software together. The presentation will cover target applications, teaching the value provided by the features.

L17 Studio 5000 Logix Designer®: Basics Lab
   Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   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 Logix Designer® and highlight the importance of good design practices. Mastering these fundamentals will help ensure a good design and prepare you for the advanced session.

L18 Studio 5000 Logix Designer®: Advanced Lab
   Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
   So you’ve got the basics, now let’s take it to the next level with this advanced 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.

Information Solutions

L08 Automate the Discovery of New Insights with Embedded Analytics
   Wednesday: 12:30 p.m.
   Thursday: 8:00 a.m.
   Learn how to integrate and use our new innovative embedded analytics products from the FactoryTalk® Analytics portfolio as well as our collaboration application, FactoryTalk® TeamONE™. This hands-on lab introduces each product and guides you through resolving real-world problems. Bring your own device and download the FactoryTalk TeamONE app beforehand to get the most from this session.
NETWORK INFRASTRUCTURE

**L14 Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures**
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Learn to integrate Stratix® switches and EtherNet/IP devices into your plant network to improve reliability, manageability and ease of use. You’ll become familiar with Stratix® 5700 features, management and diagnostics tools including Device Manager, Studio 5000® Add-On Profiles (AOP), FactoryTalk® View faceplates, and configure a Device Level Ring (DLR) Topology.

**POWER, MOTION & MOTOR CONTROL**

**L04 Drive Configuration and Programming Lab**
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
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.

**L05 Integrating CENTERLINE® Motor Control Centers with Studio 5000® and InteliCENTER® Software**
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
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 InteliCENTER® software and Studio 5000 Logix Designer® to simplify device configuration and reduce commissioning time and errors.

**PROCESS SOLUTIONS**

**L09 Integrated Motion on EtherNet/IP: Advanced Lab**
Wednesday: 2:30 p.m.
Thursday: 12:30 p.m., 2:30 p.m.
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, PanelView™ 5500 and Kinetix® 5700 servo drives and demonstrates how they combine to boost motion performance and advanced safety.

**L19 Integrated Motion on EtherNet/IP: Basic Lab**
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Learn how to configure, program and commission a CompactLogix™ 5370 controller with integrated motion on EtherNet/IP using the new Kinetix® 5500 servo drives and PowerFlex® 527 variable frequency drives.

**L11 Introduction to the PlantPAx® Distributed Control System for Operations and System Engineering**
Wednesday: 8:00 a.m., 10:00 a.m.
Thursday: 12:30 p.m., 2:30 p.m.
This lab examines the PlantPAx® DCS 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.

**L13 Easy Advanced Control Embedded in PlantPAx®**
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
The operational benefits realized from Model Predictive Control (MPC) are significant and show rapid project returns. Implement model predictive control in a Logix chassis or learn how the Process Library MPC toolkit makes MPC easier than ever to implement. Library objects to perform plant tests for process models, to switch between MPC and PID, and to track MPC model quality now support developing, operating and maintaining your application.
SAFETY & SECURITY

L10  Developing Advanced Safety Applications Using the Allen-Bradley® Integrated Safety Controller Platform
Wednesday: 8:00 a.m., 10:00 a.m.
Thursday: 10:00 a.m.
In this lab, you’ll learn how to use Allen-Bradley® Integrated Safety Systems to support advanced level safety functions including safely-limited speed - using a single controller and programming environment for safety, discrete, motion, and drive functions, and with secure, seamless connectivity to plant-wide information systems.

L12  Smart Safety Services: Using Software Tools to Manage the Safety Lifecycle and Obtain Valuable Data
Wednesday: 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m.
Although many customers understand that well-executed safety implementations can help reduce risk, improve productivity and achieve compliance, only a few have the proper tools and processes to achieve these goals. In this lab, you will learn how to use our RASWin (Risk Assessment Software for Windows) software to manage the safety lifecycle, and our ScanESC software to monitor your LOTO program and leverage safety-related data.

L15  Introduction to Network Security Lab
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
A resilient industrial network security system is essential to help ensure that data is protected and that proper access is only given to the right people at the right time. In this session, you will learn the basic security functions you can use to start optimizing security in your plant network. See how security features in managed switches, like port security, access control lists, and port thresholds, as well as specific capabilities of the Stratix® 5950 Security appliance with deep packet inspection, can help mitigate potential security risks.

L22  Smart Safety Systems: Reducing Costs, Downtime and Injuries
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Intelligent devices help improve insight into machinery operation and worker behaviors, while providing feedback on system operation to reduce downtime. In this lab, you’ll learn programming of safety devices, design requirements for integrating additional CIP Safety enabled devices, and the impact to the safety integrity of the system.

SYSTEM

L02  Tools that Simplify Product Sizing and Selection
Wednesday: 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m.
Via an instructor-led lab, you will explore Motion Analyzer (MA), Integrated Architecture® Builder (IAB), ProposalWorks™, and Device Objects. The lab will start with Motion Analyzer to select and validate the motion control products used in your project. Then you will use IAB to select the best controller for the job by verifying network performance. Next the information from MA and IAB will be passed to ProposalWorks™ to create a complete bill of material and proposal including items such as wiring diagrams and product certificates. Finally, you will learn about Device Objects and how they kick start your application development efforts by saving you time in the creation of your controller and HMI application code.

L06  Smart Sensors for Your Architecture
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
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. Attendees will experiment with the latest smart sensing technologies and find out how they can apply specific features to solve sample applications.

L21  ThinManager® Experience the Platform’s Power and Simplicity: Basic Lab
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
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 box thin client, the VersaView® S200.

VISUALIZATION

L01  Machine-level HMI with FactoryTalk® View Machine Edition: Introductory Lab
Wednesday: 8:00 a.m., 10:00 a.m.
Thursday: 12:30 p.m., 2:30 p.m.
If you are new to the FactoryTalk® View Machine Edition application, or just need a refresher on the basics, this hands-on lab allows you to learn about the basic capabilities and features of the FactoryTalk® Machine Edition application. Topics include creating an application, working with displays, understanding the basics of global objects, and working with tags, using tag placeholders, testing and running the application, applying graphic animations, using language switching.

L07  Distributed HMI with FactoryTalk® View Site Edition: Introductory Lab
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
If you are new to the FactoryTalk® View Site Edition and FactoryTalk® ViewPoint, this hands-on lab allows you to learn about the basic capabilities and features of a FactoryTalk® View SE application for both desktop and mobile. You will build a simple application from the beginning. Topics include creating an application, adding displays, working with tags and animations, basic alarming, trending, and mobility. This lab will give you a solid understanding of how a FactoryTalk® View SE HMI application works and how you can extend it to mobile devices.

L20  Designing Machine-level HMI with PanelView™ 5000 and Studio 5000® View Designer™: Introductory Lab
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Learn how easy it is to create, download, and run a PanelView™ 5000 project using the new Studio 5000 View Designer™ software. 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, taking advantage of pre-defined project content, testing a project, and downloading to a terminal.

L04  Machine-level HMI with FactoryTalk® View Machine Edition: Advanced Lab
Wednesday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
Thursday: 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.
This lab introduces the advanced features of the FactoryTalk® View Machine Edition application. Topics include advanced level safety functions including safely-limited speed - using a single controller and programming environment for safety, discrete, motion, and drive functions, and with secure, seamless connectivity to plant-wide information systems. Additionally, you will learn how to use Allen-Bradley integrated safety systems to support advanced level safety functions including safely-limited speed - using a single controller and programming environment for safety, discrete, motion, and drive functions, and with secure, seamless connectivity to plant-wide information systems.
**TECHNICAL SESSIONS**

Technical sessions are sixty-minute presentations by leading industry and product experts.

See page 10 for information on how to register to attend the forums.

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**CONTROL**

**T01** Introduction to FLEX 5000™ I/O  
Wednesday: 8:00 a.m.  
Thursday: 8:00 a.m.  
Continue to deliver value with our next generation 5000 series I/O platform technology! Learn about FLEX 5000™ I/O enhanced communication with 1 Gb EtherNet/IP connectivity, mix-and-match capability of standard and safety modules up to SIL 3-rated, plus flexible support for Copper and Fiber ports (SFP), Star, Ring and PRP topologies.

**T08** Designing Highly Reliable DC Powered Control Systems  
Wednesday: 8:00 a.m.  
Thursday: 8:00 a.m.  
Control systems are becoming complex and sensitive and if the 24VDC power supply fails, the whole system shuts down resulting in down time. Devices such as: buffer, redundancy, DC/DC converters and UPS products can help a power supply system to improve the reliability of the whole control system.

**T09** Smart Devices: Helping Design, Operate and Maintain The Connected Enterprise  
Wednesday: 9:00 a.m.  
Thursday: 9:00 a.m.  
Smart devices deliver real-time control and information that feeds up through your connected plant. This session will give 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.

**T10** Studio 5000® Application Code Manager: Introduction and Demonstration  
Wednesday: 10:00 a.m.  
Thursday: 10:00 a.m.  
This session combines presentation with an instructor-led demonstration of Application Code Manager (ACM) capability. This session will cover how to quickly build your automation projects using reusable code stored in libraries. See how configuration, not programming, is used by selecting library objects (control modules, equipment modules, etc.) and providing configuration data, such as object name and descriptions, equipment setpoints, control interlocks, I/O mapping, etc., required for your project. Once all the configuration, not programming, is provided the project will be built (ACD file) which can be downloaded to a controller.

**T11** Studio 5000® Design Environment® Overview  
Wednesday: 11:00 a.m.  
Thursday: 11:00 a.m.  
Are you a new user of Studio 5000® Design Environment? Join us to learn about holistic environment and the features and value of the different applications, including: Logix Designer, Architect, View Designer, Application Code Manager and Emulate.

**T12** What’s New in Connected Components Workbench™ Software  
Wednesday: 1:00 p.m.  
Thursday: 1:00 p.m.  
Learn about the new features in Connected Components Workbench™ software which assist in reducing design and setup time of small machine applications by being able to configure and program multiple devices in the same project. This includes Micro800™ Controllers, PanelView™ 800 Graphic Terminals, PowerFlex® Drives and Guardmaster® safety products.

**T13** What’s New in Logix  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
Learn what’s new in our Logix control platform. This session will cover advances in control, I/O platforms, and design software for high-performance machine control.

**T50** FANUC’s New PLC Motion Interface and Other Tools for High-level Rockwell Automation® Integration  
Wednesday: 8:00 a.m.  
Thursday: 8:00 a.m.  
FANUC’s latest PLC Motion Interface option provides a quick and easy way to integrate a FANUC robot with Allen Bradley PLC’s and HMIs. This session will cover features, benefits, FANUC’s Add-On Instructions, applications and case examples of PLC Motion and other available connectivity products that provide powerful integrated solutions.

**T78** Maplesoft: Using Digital Twins for Fast, Low-Risk Virtual Commissioning  
Wednesday: 8:00 a.m.  
Thursday: 8:00 a.m.  
We will introduce the basics of a model-driven digital twin and explore their growing utility in the manufacturing industry. See how digital twins are used for virtual commissioning to reduce the errors and delays commonly associated with machine-level commissioning.

**T79** Matrix Technologies Inc.: PlantPAx® - High Precision Formaldehyde Blending Process  
Wednesday: 9:00 a.m.  
Thursday: 9:00 a.m.  
A chemical facility intended to install and integrate a new high precision blending system with automated ratio control. The solution uses PhaseManager™ and PlantPAx® Library of Process Objects for logic development, HMI graphics and Alarm Management. The system incorporates DeviceNet networks, EtherNet/IP networks, PowerFlex® drives and Starters.

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**INFORMATION SOLUTIONS**

**T02** How to Get Started with Embedded Analytics  
Wednesday: 9:00 a.m.  
Thursday: 9:00 a.m.  
We want to help customers make decisions as close to the source of the data as possible. We have embedded analytics offerings designed to be embedded within a control network – both at the device and system level. Learn about Project Sherlock and FactoryTalk® Analytics for Devices and how they can bring you value today.
T04 The Power of Machines: Machine Learning and How it can Benefit Your Production and Improvement Goals

Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.

Discover what machine learning is and how to apply it to help drive operational performance. Learn how to apply AI applications successfully and how to develop specific applications like energy optimization, predictive maintenance and predictive KPIs.

T05 Addressing Specific Manufacturing Challenges of All Sizes and Complexities with Scalable MES

Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.

Manufacturing execution system (MES) software can connect, manage, validate and optimize all aspects of production. Learn the various options for implementation from comprehensive that can help you meet a range of productivity, quality, compliance and cost saving goals to individual fit-for-purpose applications at a machine or work area level that can address specific challenges while building toward an eventual full-scale MES deployment.

T06 Scalable Analytics: Providing Actionable Insights for Key Stakeholders at All Levels of Your Organization

Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.

Learn about FactoryTalk® Analytics and ThingWorx tools and how having the right information at the device, system or enterprise level can speed time to insight giving actionable information to the people who need it for critical improvements.

T07 Improve Visibility and Diagnostics of Your Network with Network Management Software

Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.

Learn how FactoryTalk® Network Manager™ (FTMN) software from Rockwell Automation® can help improve industrial network visibility and troubleshooting by providing intuitive network information. Designed for non-IT personnel, FTMN allows for discovery of plant floor assets, creation of “as-built” topology with live device-centric views, and alarm/event monitoring for historical analysis.

T08 Resilient Network Protocols for High-availability Systems

Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.

High-availability process control systems require networks that match them in reliability. With multiple choices available, this session will help you understand the commonly used options, with a focus on Parallel Redundancy Protocol (PRP).

T09 Build the Factory of the Future with FactoryTalk® Analytics and ThingWorx

Wednesday: 8:00 a.m., 1:00 p.m.
Thursday: 8:00 a.m., 1:00 p.m.

Connected operations are driven by actionable insights. Industrial organizations are tasked with turning raw, industrial Internet of Things data into proactive insights to tighten production schedules and maximize revenue. This session reviews how FactoryTalk® Analytics and ThingWorx synergize to enable advanced analytics capabilities and discusses key elements for applying the solution in the context of the factory.

T10 Simplify Operations Management with ThingWorx, Vuforia and FactoryTalk® ProductionCentre® MES

Wednesday: 9:00 a.m., 2:00 p.m.
Thursday: 9:00 a.m., 2:00 p.m.

The Connected Enterprise journey helps customers to capitalize on industrial Internet of Things and augmented reality to unlock value where our physical and digital worlds converge. This comprehensive and flexible offering aligns smart-factory technologies resulting in unmatched, integrated information solution to help increase productivity, heighten plant efficiency, lower operational risk and improve system interoperability.

T11 Learn How to Make Your Data Work for You

Wednesday: 10:00 a.m., 3:00 p.m.
Thursday: 10:00 a.m., 3:00 p.m.

Analytics are inseparable from both Industry 4.0 and the Industrial Internet of Things (IIoT). Join subject matter experts from ThingWorx and Rockwell Automation as they share best practices and lessons learned to help you leverage the full value of your industrial Internet of Things data. This session also provides practical advice on how to ready your organization for the factory of the future.

T12 Rockwell Automation and OSIsoft: Operational Data Infrastructure for The Connected Enterprise

Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.

Optimized for manufacturing data collection from Rockwell Automation® centric controls, machines and work cells with seamless integration to an OSIsoft Enterprise Infrastructure are designed to help empower personal at all levels with insight and analytics to more effectively address productivity, quality, environmental, energy, and other business improvement initiatives.

T13 Using TeamONE™ for Secure Mobility and Collaboration

Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.

Collaboration through integrated mobility tools, like FactoryTalk® TeamONE™, helps you increase reliability and uptime for your manufacturing operation. In this session, you will see the real-time value of FactoryTalk® TeamONE™ by identifying problematic devices quickly. We will highlight the integration between FactoryTalk® TeamONE™ with FactoryTalk® Alarms and Events, FactoryTalk® Analytics for Devices, Drives, Controllers and other EtherNet/IP devices.

T14 Scalable Analytics: Providing Actionable Insights for Key Stakeholders at All Levels of Your Organization

Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.

Learn about FactoryTalk® Analytics and ThingWorx tools and how having the right information at the device, system or enterprise level can speed time to insight giving actionable information to the people who need it for critical improvements.

T15 Get the Most Customer Value from Industrial Internet of Things with FactoryTalk® Analytics and ThingWorx

Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.

Industrial business can create scalable and secure solutions that provide high levels of ROI. Learn about the ThingWorx® Platform, a complete, end-to-end technology platform, with the functionality, flexibility and agility needed to develop, deploy and extend industrial Internet of Things applications.

T16 Resilient Network Protocols for High-availability Systems

Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.

High-availability process control systems require networks that match them in reliability. With multiple choices available, this session will help you understand the commonly used options, with a focus on Parallel Redundancy Protocol (PRP).
Technical Sessions

T17 Selecting the Right Stratix® Switch for Your Application
Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.
There’s a lot to consider when choosing the appropriate industrial switch for your network. Fully managed, lightly managed, unmanaged – which is best for your application? Learn how to balance functionality and price for your application, and how industrial switches are used in Converged Plantwide Ethernet tested network architectures.

T22 Kepware Technologies: Best Practices for Industrial Control System Security
Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.
Recent cybersecurity attacks have demonstrated that traditional methods of securing Industrial Control Systems (ICS) networks are no longer sufficient. We will introduce best practices for auditing your existing network operations, how to design a network with best-in-class security, and how to harden and deploy KEPserveEX to maximize ICS network security.

T35 Dialogight: Improve Personnel and Plant Safety with Innovations in Smart Lighting
Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.
Intelligent lighting helps ensure adequate illumination, collects data from sensors placed throughout the facility and detects dangerous conditions. Hear how smart lighting networks can be used to collect and transport facility-wide machine and sensor data, send alerts for hazards, identify locations of hazards and light a safe evacuation path for workers.

T53 Design Considerations for Reliable EtherNet/IP Networking
Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.
This discussion will review the considerations to help you design and deploy a scalable, reliable, safe and future-ready EtherNet/IP network infrastructure. Topics will include segmentation techniques, data prioritization, resiliency, structure and hierarchy.

T54 The Next Phase of the IT/OT Integration – Extending IT Security to the Cell/Area Zone of the Plant Architecture
Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.
This session will review the extension of IT Security strategies into the Cell/Area and IACS devices, and how today’s network infrastructure will evolve and adapt to tomorrow’s requirements and threats. Topics include enhanced remote access, network and security health monitoring, access control and role-based segmentation in a structured, scalable manner.

T55 Migrating and Modernizing Legacy IACS Networks
Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.
This session will help customers to migrate from legacy industrial automation and control systems to a converged infrastructure that helps to troubleshoot issues faster, avoid costly downtime, and improve security to the plant floor. Share best practices and challenges on typical customer journeys from serial networks, islands of operations, and unsecured, unmanaged plant floor network environments to data ready, secure, lower-cost plant floor environments. Session will highlight the joint Rockwell Automation and Cisco solution to achieve including phasing best practices, processes to follow, brownfield versus greenfield, new use cases that can be deployed, and how to take advantage and capture the benefits of managed, secured switches.

T56 Claroty: Case Study: An Innovative Security Operations Center (SOC) by OT, for OT
Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.
Applicable to many industries, this case study focuses on the offshore drilling subsegment, within the exploration part of upstream oil and gas operations. The changing liability landscape in offshore drilling drove OT professionals to become the corporate experts with their own security operations center (SOC) to meet customer cybersecurity requirements and help ensure predictable production.

T57 ESIeen Wireless Modems: Deploying Wireless as an Essential Component of The Connected Enterprise
Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.
Wireless communications have become an essential component in The Connected Enterprise. Delivering an integrated, reliable and secure wireless solution for the IIoT infrastructure requires a carefully engineered solution, tailored to overcome the specific project requirements and environmental constraints.

T58 Panduit: The Connected Cabinet
Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.
To fully use industrial Ethernet throughout the plant floor, control panel design strategies must support industrial Ethernet-enabled switches and networked devices. This session demonstrates how an Ethernet enabled connected panel allows the business to measure productivity in real-time, improve efficiencies, increase productivity and drive out costs.

T59 Stratus Technologies, Inc.
Edge Computing For Industrial IoT
Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.
New industrial IoT solutions allow organizations to turn massive amounts of machine-based data into actionable intelligence. Capitalizing on this trend requires computing resources to be deployed closer to the sources of the data including machines such as pumps, turbines, sensors, etc. However, software and computing infrastructure located outside the data center can be a challenge to maintain. This session will describe how to design and deploy a zero-touch, edge computing infrastructure that delivers reliability, operational simplicity and a low total cost of ownership.

T83 HMS Industrial Networks: Enabling Safe Service
Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.
A workplace accident is something every company would like to avoid. This issue is even more complicated with an accident involving a non-employee. Many times this is a service person that has been given temporary access to the facility. HMS will present several strategies for improving facility safety by enabling remote service either in-plant or remotely. Topics will include how to enable on-site visits while limiting manufacturing floor access, access to remote sites and enabling remote service.

POWER, MOTION & MOTOR CONTROL

T18 Harmonic Mitigation - Problems, Causes, Limitations, Solutions
Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.
Non-linear loads have a significant impact on the supply voltage. This causes transformer overloads, overheating, failures and non-proper plant operation. Stopped operation cost money and creates inefficiency. The seminar tells electricians how to recognize harmonic issues, locate and to solve them by implementing the correct solution like Harmonic Filters.
Wednesday: 1:00 p.m.  
Thursday: 1:00 p.m.  
With the expanding use 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.

**T20** Leverage Process and Motor Control Technology to Monitor and Extend Mechanical Equipment Life  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
Leverage the capabilities of the Logix control platform combined with the intelligent motor control portfolio, intuitive software and EtherNet/IP network to improve productivity and reliability of your motors. See how technology advancements in process and motor control technology can monitor critical characteristics and detect common problems to extend equipment life and reduce ongoing operational expenses. We will focus this presentation on pumps.

**T21** Soft Starter or VFD - Which is Best for Your Application?  
Wednesday: 3:00 p.m.  
Thursday: 3:00 p.m.  
AC drives continue to be applied at a rate of approximately 20:1 even in situations when soft starters are sufficient to do the job. So why choose a soft starter? Substantial savings can be realized when using a soft starter instead of an AC drive in the proper applications.

**T22** What's New in Kinetix® Motion Control  
Wednesday: 9:00 a.m.  
Thursday: 9:00 a.m.  
Learn what's new in our Kinetix® motion control platform. This session will review products and technologies for OEMs.

**T23** MagneMotion® and iTRAK® Independent Cart Technology: Introduction  
Wednesday: 9:00 a.m.  
Thursday: 9:00 a.m.  
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. Come 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.

**T24** What's New in PowerFlex® Drives  
Wednesday: 11:00 a.m.  
Thursday: 11:00 a.m.  
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.

**T25** Arc Flash Hazards and Arc Resistant Equipment - Standards and Solutions  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
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.

**T26** What's New in PowerFlex® Drives  
Wednesday: 10:00 a.m.  
Thursday: 10:00 a.m.  
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.

**T27** Arc Flash Hazards and Arc Resistant Equipment - Standards and Solutions  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
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.

**T28** What's New in PowerFlex® Drives  
Wednesday: 11:00 a.m.  
Thursday: 11:00 a.m.  
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.

**T29** Arc Flash Hazards and Arc Resistant Equipment - Standards and Solutions  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
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.

**T30** What's New in PowerFlex® Drives  
Wednesday: 10:00 a.m.  
Thursday: 10:00 a.m.  
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.

**T31** Arc Flash Hazards and Arc Resistant Equipment - Standards and Solutions  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
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.

**T32** What's New in PowerFlex® Drives  
Wednesday: 11:00 a.m.  
Thursday: 11:00 a.m.  
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.

**T33** Arc Flash Hazards and Arc Resistant Equipment - Standards and Solutions  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
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.

**T34** What's New in PowerFlex® Drives  
Wednesday: 10:00 a.m.  
Thursday: 10:00 a.m.  
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.

**T35** Arc Flash Hazards and Arc Resistant Equipment - Standards and Solutions  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
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.

**T36** What's New in PowerFlex® Drives  
Wednesday: 11:00 a.m.  
Thursday: 11:00 a.m.  
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.

**T37** Arc Flash Hazards and Arc Resistant Equipment - Standards and Solutions  
Wednesday: 2:00 p.m.  
Thursday: 2:00 p.m.  
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.
T48 STOBER Drives, Inc.:
STOBER’S SERVOSTOP Brake for Emergency Braking with Rockwell Automation® GuardLogix® Safety Controller
Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.
STOBER’s SERVOSTOP emergency brake couples directly with STOBER gearboxes and Rockwell Automation’s servo motors to offer the designer a redundant option for use with the new GuardLogix® 5580 and CompactGuardLogix 5380 safety controllers.

PROCESS SOLUTIONS

T29 Mettler-Toledo, LLC: METTLER TOLEDO
Help Ensure Accuracy and Minimize Scale Calibration Effort with Three Different Remote PLC Calibration Methods
Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.
An EtherNet/IP connected weight transmitter’s calibration to the weighing sensor is critical to receiving accurate weight data, but the process by which this occurs is often overlooked. Reduce time and effort required to integrate three different remote PLC scale calibration methods without sacrificing flexibility to meet unique process and accuracy demands.

T36 Batch Management: Overview and What’s New and What’s Next
Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.
The Rockwell Automation® modern batch solution leads to increased productivity and scalability through groundbreaking new products. This session explores the features and all new capabilities of FactoryTalk® Batch Version 13 software. It also provides an overview of new offerings such as controller-based sequencing with the SequenceManager™ solution and new mobility capabilities with FactoryTalk® Batch View™ software. The session will also provide a preview of upcoming features and capabilities of the Rockwell Automation® portfolio of batch and sequencing products.

T37 PlantPAx® System – What’s New & What’s Next
Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.
In this session, you will hear a brief overview of the PlantPAx® distributed control system. You will then discover 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.

T38 Control Station, Inc.:
Tune PID Controllers in Six Easy Steps:
Optimizing Complex Loops Using LOOP-PRO TUNER
Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.
Tuning PID controllers can be a regular source of frustration. That is especially true when dealing with non-linear flow, sluggish temperature and unstable level controllers. This session showcases a step-by-step procedure for tuning Logix, SLC™ and PLC-5® controllers that is 1) intuitive and 2) repeatable, using Control Station’s LOOP-PRO TUNER.

T61 Exploring the Functionality of the Rockwell Automation® Library of Process Objects
Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.
The Rockwell Automation® Library of Process Objects lets you quickly develop process solutions with rich functionality and known performance. In this session, objects in the library and their functions within a typical process control system will be presented, common library features such as modes, alarms, and features for operations, maintenance and engineering personnel will be explained and new features for the latest library release will be highlighted. Walk away knowing how to more effectively develop, operate and maintain process systems.

T62 DCS Modernization Tools, Tips and Tricks to Mitigate Risks
Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.
In today’s dynamic manufacturing environment, companies are constrained by limited capabilities of their legacy DCS and their ability to support these legacy systems. This session explores the barriers and benefits of modernization, valuable methodologies, execution practices, and tools that help assist in planning, budgeting, and replacing legacy DCS systems.

T63 Automated Control Concepts Inc.: Batch Automation System Helps Life Science Manufacturer Satisfy cGMP Requirements during Major Process Upgrade
Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.
A Rockwell Automation® solution was used to satisfy critical cGMP user requirements of a multi-million dollar pharmaceutical project. This presentation describes how the system integrator leveraged Rockwell Automation® hardware and software products including FactoryTalk® Batch, redundant ViewSE servers, Batch reporting, and ControlLogix® controllers to result in a more reliable process control system.

T64 Endress+Hauser: Instrumentation and EtherNet/IP – the Myths, the Facts and the Future
Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.
ODVA’s EtherNet/IP is one of the fastest growing digital communication protocols in the process industry. EtherNet/IP provides unparalleled speed and availability of information. Instrument-specific Add-on Profiles (AOPs) delivers ease of setup and maintenance. Learn what options are available today to capitalize on advantages and how to plan for tomorrow.

T65 exida Consulting LLC: Functional Safety for Managers – What Managers Need to Know
Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.
The IEC61511 Standard is built around a safety lifecycle (SLC™) to provide a consistent approach to risk identification and risk reduction, in accordance with a company’s tolerable risk. Managers need to be competent when it comes to managing SLC™ tasks; being responsible for personnel who are performing SLC™ tasks. Understanding the importance of performing preventative maintenance and mechanical integrity is key; arbitrarily cutting expenditure on maintenance could lead to serious incidents and litigation.

T67 MECCO: Automating Production Management with Track and Trace
Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.
Learn how to automate your inventory and production management in a way that is scalable to your needs and helps meet productivity goals. This session will focus on integrating the software and direct part marking components of a traceability system, using examples from a manufacturer who is pioneering this approach.
SAFETY & SECURITY

Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.

Control system security is traditionally addressed by defense in depth architecture, with multiple layers of security. As attackers have become more sophisticated, CIP-connected devices must be able to defend themselves. This session explains how CIP Security helps devices protect themselves from malicious attacks focusing on authenticity, integrity and confidentiality.

T40  Logix Security for Machine Builders and End Users
Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.

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. Come and learn about these new capabilities.

T41  Safe Position and Speed Monitoring – Real World Application of Advanced Safety Technology
Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.

Explore real-world advanced safety applications and how innovative machine design can dramatically improve productivity. Minimizing lockout/tagout downtime with alternative measures - including safe position and speed monitoring - can help protect workers and improve productivity.

T42  Symantec Critical System Protection: Silver Bullet for OT Endpoint Security
Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.

Overview of Symantec Critical System Protection - A silver bullet for Operational Technology endpoint security that provides timeless, signature-less & zero day protection for OT assets like HMI/SCADA, Historians, Engineering Workstations and more.

T68  Pepperl+Fuchs, Inc.: Hazardous Area Approved Mobile Devices Bring FactoryTalk® TeamONE™ Productivity to any Site Location
Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.

The range of HazLoc approved mobile devices now in the Encompass™ Partner Network Program allows end users to benefit from all productivity offered by FactoryTalk® TeamONE™ at their site, even in Division/Zone 1 or 2 rated areas.

T70  Introduction to the Allen-Bradley® Integrated Safety System
Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.

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 secure, seamless connectivity to plant-wide information systems.

T71  Safety System Connectivity: Device to Enterprise
Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.

Connectivity from device to enterprise is critical to keeping workers safer and productive. In this session, you’ll understand programming of safety devices in GuardLogic®, use of AOPs for Safety Devices, integration of safety from GuardLink® to Ethernet, and the impact to the safety integrity of the system.

T72  Safety System Development Tools to Streamline Design and Implementation
Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.

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.

T73  Bridging the Skills Gap: A Practical Approach
Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.

Do you need to improve the performance of your manufacturing assets? Struggling with downtime? Trying to find ways to get more out of them? We will provide an overview on how services and The Connected Enterprise can help enable you to manage your asset performance, lower TCO, and increase your utilization by focusing on cloud-enabled technology and strategies.

T74  Industrial Cybersecurity: The Never-Ending Journey
Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.

Time is of the essence when protecting your organization from complex cyber threats. The clock doesn’t start when you have been breached — it’s always ticking. Now more than ever we must have both a guide and a map on how to traverse the obstacles of the never-ending cybersecurity journey. Come hear from both customers and partners alike on how they traversed challenges of this journey and some of the techniques they utilized to overcome them.
T75 Digital Asset Management
Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.
With the convergence of IT and OT, your assets are more connected than ever, which creates an opportunity to increase productivity and reduce total cost of ownership. Come see a live demo of the “MyRockwellAutomation” website and how it delivers unprecedented value when combined with the Rockwell Automation® Data Driven Services Platform to help you manage and track your assets and repairs, interact with remote expertise, and improve the reliability of your equipment. Additionally, you will see where the platform is headed over the coming months/years.

T76 Flexible Manufacturing with Single Use and Mobile Systems
Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.
Single-use and mobile solutions for pharma and life sciences companies demand agile architectures that offer rapid reconfigurability and reprogrammability. Learn how Rockwell Automation meets the challenge of incorporating single-use systems into legacy production systems using a single scalable, secure architecture designed to fit business needs.

T77 Intelligent Control in Metals Applications
Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.
The metals industry faces workforce challenges, less in-house technical expertise and pressures to improve productivity. Rockwell Automation can help you tackle these issues with new FactoryTalk® Analytics Logix-based Artificial Intelligence technology. Plug it in, choose the data you want to learn from, and you are on your way to making predictions! Preview it in applications such as casters, mills and processing lines, and learn how existing staff can leverage this powerful capability.

T80 nVent Hoffman: Case Study: How Automation Empowers Panel Builders to Gain an Edge
Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.
Adopting automation within panel building unlocks significant labor savings — leading to faster build times and more competitive project bids. Don’t let traditional, manual methods hold you back. Take an in-depth look at how panel builders are reinventing holes/cutouts, wiring and duct/DIN prep. Are you ready to gain the automated edge?

T81 Concept Systems Inc: Plant Modernization: Moving from Yesterday to Tomorrow
Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.
From an automation assessment to leveraging new technologies like The Connected Enterprise and MobileView™, learn what you need to know about developing and implementing a modernization plan.

T82 SyTech Inc.: Alarm Management and ISA-18.2 — How Do I Get Started?
Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.
Don’t get started on the wrong track. This presentation shows how to get started creating an effective alarm management program that complies with the ISA-18.2 standard. Performing a thorough alarm system performance benchmarking and gap assessment identifies systematic issues and sets the stage for implementing a successful 7-step program.

T85 Optimize Multi-Well Pads with ConnectedProduction™
Wednesday: 8:00 a.m.
Thursday: 8:00 a.m.
The oil and gas industry is embracing Multi Well Pad design for its environmental and economic benefits, allowing operators to consolidate RTU and PLC functionality into a single platform. Learn how a ConnectedProduction™ solution can help you achieve greater insight into your operations using this new design to enable a true digital oilfield with improved production intelligence.

T86 How to Generate Real Value with IIoT and The Connected Enterprise
Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.
You’ve been hearing about the Industrial Internet of Things (IIoT), The Connected Enterprise, and analytics for years, but struggle with actually applying it. This discussion will paint a clear picture on how to turn theory into reality. Hear from Metso, who partnered with Rockwell Automation to develop a leading IIoT solution to increase efficiency in the mining industry.

T87 ProSoft Technology: Phased Modernization Tools and Techniques: Modernize on Your Maintenance Budget
Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.
Sustaining operations of your existing system is critical to maintain profitability. Learn how ProSoft Technology can help extend the life of your existing Remote I/O network by upgrading existing drives, PanelView™, and FLEX™ I/O adapters to EtherNet/IP with minimal scheduled downtime and without modifying the PLC code.

T88 Spectrum Controls Inc.: Universal Industrial Gateway – Connect Multiple Devices, Across Multiple Protocols, in a Single Box
Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.
Learn how a single Universal Industrial Gateway can connect multiple devices simultaneously, each with a different protocol, saving you time, money, and the headache of configuring multiple gateway devices. Maintain communication in systems where Industrial Ethernet and/or serial protocols coexist.

T91 Emulate3D, Ltd.: From Throughput Simulation Analysis to Virtual Commissioning and Dynamic Digital Twins — Show Me the Value
Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.
There is a growing understanding that an accurate Digital Twin of an automated system enables users to understand its actual response to a variety of different operating conditions without disrupting existing operation. Knowing what to model and to what level of resolution is key to producing a useful industrial tool.

T26 ThinManager® Overview
Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.
The ThinManager® platform is designed to simplify the way productivity content is delivered, and devices are managed within manufacturing environments. Learn how ThinManager® software can revolutionize everything from the plant floor to the control room, change the way you view mobility in those areas, and deliver and manage The Connected Enterprise today. In addition, this session will introduce what’s new in ThinManager®.
T84 DT Engineering: Unlocking the True Potential of Independent Cart Technology with The Connected Enterprise

Wednesday: 3:00 p.m.
Thursday: 3:00 p.m.

In this session, Rockwell Automation® OEM Partner DT Engineering will highlight application examples using independent cart technology and the enhanced value it can bring when combined with Connected Enterprise technologies. You will learn about the unprecedented flexibility and speed of the iTRAK® system as well as the information technologies that can be integrated to maximize your Return on Investment.

T89 Applying Modern Analytics to Maximize Savings & Minimize Downtime with Energy Management

Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.

This session explores how to apply modern analytics in your facility to help meet your energy reduction goals and reduce downtime caused by power quality events.

T90 Softing Inc: How to Connect ControlLogix® to Manufacturing Execution Systems (MES) for Track & Trace, Recipe Management, and Analytics

Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.

Learn how ESCO used ControlLogix® to transact with SQL databases, central to customer MES, to enable track & trace on high-speed conveyors and sorters. Once per second, stored procedures were used to look up destination information from the SQL database, provide internal routing, and document successful transactions with ControlLogix®.

VISUALIZATION

T06 Applied Control Engineering: Success Story: Applying ISA-101 Concepts in a New PlantPAx® Application

Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.

Learn how to apply advanced HMI graphical concepts in a PlantPAx® application. Discussion focuses on how to deliver an interface that highlights critical parameters and abnormal situations. The presentation is based on a greenfield PlantPAx® implementation. The talk includes how to gain operator buy in and use Rockwell Automation® HMI tools.

T30 EPLAN Software and Services: Data Store/Share/View and The Connected Enterprise

Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.

The Connected Enterprise from Rockwell Automation encourages the use of intelligent data to be implemented properly. Providing the correct data at the ideal time to the best resources is critical in an effective corporate environment. Work instructions, bill of material, schematics and panel layout can be available 24/7.

T31 Llumin: Adding Value to FactoryTalk® with TPM and Workflow

Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.

See how ReadyAsset’s role in The Connected Enterprise adds value to Rockwell Automation® FactoryTalk® with integrated TPM and condition-based maintenance functionality. Also see how our analytics tools, along with Llumin’s Notification workflow adds audit and compliance for FactoryTalk® View and FTPC Operators and Plant Management overall.

T32 Ocean Data Systems: Characteristics of an Industrial Reporting Solution for Compliance, Performance and Ad Hoc Analysis

Wednesday: 11:00 a.m.
Thursday: 11:00 a.m.

Of all the tools for report generation, most take a significant amount of integration to get to a final solution. That final solution, due to programming and scripting, is rarely easy to maintain and lacks in reliability. The key characteristics unique to an Industrial solution will be explored in this session.

T33 SeQent: Do You Know What’s Happening on Your Manufacturing Floor RIGHT NOW?

Wednesday: 1:00 p.m.
Thursday: 1:00 p.m.

SeQent interfaces with FactoryTalk®, OPC, and other manufacturing data sources to offer real-time wireless alarm & event management, fixed & mobile industrial visualization and a Wi-Fi enabled notification platform accessed through devices such as tablets, smartphones, and Motorola two-way radios. Attend this session to see a demo and learn more!

T34 Schweitzer Engineering Laboratories: Benefits of Unifying a Power Management System with a Factory Automation System

Wednesday: 2:00 p.m.
Thursday: 2:00 p.m.

Learn how integrated systems increase energy and plant efficiency and safety, help prevent critical process shutdowns, provide complete HMI situational awareness, and reduce maintenance and lifecycle costs. IEC 61850 high-speed GOOSE deterministic messaging connected to EtherNet/IP produces modern benefits for power and factory automation and process engineers.

T51 FactoryTalk® AssetCentre: Overview

Wednesday: 9:00 a.m.
Thursday: 9:00 a.m.

Learn about FactoryTalk® AssetCentre core functionality including version control, audit information, security, reporting and automated backup and compare of devices including ControlLogix® controllers, CompactLogix™ controllers, PowerFlex® drives, and PanelView™ Plus graphic terminals. Discover how FactoryTalk® AssetCentre’s Asset Inventory Agent and Product Compatibility and Download Center engagement can empower asset lifecycle decision making.

T52 What’s New & What’s Next in Visualization at Rockwell Automation

Wednesday: 10:00 a.m.
Thursday: 10:00 a.m.

Discover the newly released features of Visualization software and hardware. See what’s ahead for the upcoming year. This session will show how new capabilities enable scalable solutions, efficient product design, access to real-time information, and improve operator effectiveness.
VISIT THESE SPECIAL FEATURES

In the commons area in the exhibit hall.

GLOBAL LOUNGE

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

You may also register for Automation Fair® Event Technology Booth Tours at the Global Lounge Welcome Desk. Tours are conducted in English and the following local languages:

- Latin America: Spanish and Portuguese
- Asia Pacific: Chinese, Korean and Japanese

HISTORY OF INNOVATION

Celebrate 115 Years of the Allen-Bradley® Brand

When Lynde Bradley and Dr. Stanton Allen formed the Compression Rehostat Company in 1903, they didn’t start with much, but their impact has been pretty huge over the past 115 years. Visit the History of Innovation booth to learn more about our evolution and celebrate the anniversary!

- Take your photo with our founders
- Original Allen-Bradley products and photos
- Milestones in development of the first PLC
- Three generations of the CENTERLINE® 2100 Motor Control Center
MERCHANDISE BOOTH

Shop the Rockwell Automation Branded Merchandise Collection, including headwear, clothing, notebooks, drinkware and corporate gifts. Visit the Merchandise Booth to see the latest Rockwell Automation and Automation Fair® merchandise selections.

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 what we do every day to impact our company culture – and why it’s more than just our products, services and solutions that make us your trusted and valued partner.

For a sneak peek, check out: www.rabestkeptsecret.com