Rockwell Automation

On the Move

Program Guide

August 11-12 • Spokane, WA

Learn more: https://rok.auto/raotm_spokane

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CES

Rockwell Automation

On the Move

join us

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

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

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For additional information visit: https://rok.auto/raotm_spokane

get answers

50 **TECHNICAL SESSIONS**

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

12 **HANDS-ON LABS**

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

get inspired

40+
EXHIBITORS

NETWORK

With industry application and technology leaders

earn hours

EARN PROFESSIONAL DEVELOPMENT HOURS (PDH)

Attend classes to get certificates of completion

go digital

events ROK

PLAN YOUR DAY

Download the EVENTS ROK mobile app from your app store!

Login using your email address you used to register to attend this event.

Rockwell Automation

On the Move

register today

https://rok.auto/raotm_spokane

For more information, contact your local distributor or Shannon Boule at smboule@ra.rockwell.com or 510.363.7328.

hands-on labs

Wednesday, August 11

	CLASSROOM 205	CLASSROOM 206A	CLASSROOM 206B	CLASSROOM 206C	CLASSROOM 206D	CLASSROOM 207
7:30 AM	**Registration and show floor open**					
8:00 AM	HOL02 – Studio 5000 Logix Designer® Application: Basic Lab	HOL15 – System Design – PlantPAx 5.0 – New Controllers and Workflows	HOL14 – Integrated Motion on EtherNet/IP	HOL11 – Basic Stratix® Switch and EtherNet/IP Features in (CPwE) Architectures		
9:30 AM	**Visit show floor**					
10:00 AM				HOL20 – Studio 5000® Application Code Manager Project Execution and Library Management	HOL07 – Notifications and Taking Action Using IoT Data Using FactoryTalk® InnovationSuite	HOL25 – Distributed HMI with FactoryTalk® View Site Edition: Basic Lab
11:30 PM	**Lunch and visit show floor**					
1:00 PM	HOL01 – Studio 5000 Logix Designer® Application: Advanced Lab	HOL24 – Designing Machine-level HMI with PanelView™ 5000 and Studio 5000 View Designer®: Basic Lab	HOL13 – Basic Drives Programming	HOL11 – Basic Stratix® Switch and EtherNet/IP Features in (CPwE) Architectures		
2:30 PM	**Visit show floor**					
3:00 PM				HOL03 – Design for Micro Control with Connected Components Workbench™ Software	HOL26 – ThinManager® Experience the Platform's Power and Simplicity: Basic Lab	HOL18 – Introduction to the Design and Implementation of FactoryTalk® Security in a Control System
4:30 PM	**Distributor hospitality – visit show floor**					

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Wednesday, August 11

	CONFERENCE THEATER	BALLROOM 111A	BALLROOM 1 111B	BALLROOM 111C	MEETING ROOM 102ABC	MEETING ROOM 201ABC	MEETING ROOM 202ABC
7:30 AM	Registration and show floor open						
8:00 AM	PT04 - The Urgency of Cybersecurity: Take the Next Step	PT13 - How Do I Extract Analytics from My Smart Drive Solution?	PT32 - Modernization: Improve Your Performance in Established Equipment	PRPT01 - Overview of the New PlantPAx® 5.0 System: What's New and What's Next?	PT12 - How a Smart Machine Can Help Make You Profitable	PT34 - Real World Solutions for Your Next in Extended Reality	PT03 - Navigate Change with Modern Remote Support Options
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11:00 AM	PT07 - CIP Security: Improve Your Control System Defense-in-Depth Security	CT570 - Going to Ground: AC Drives - Wiring, Bonding & Grounding Best Practices	CT572 - Digital Twin Technology	PRPT05 - Introduction to the Rockwell Automation® Library of Process Objects	CT573 - Logix Tips and Tricks	PT31 - Purpose-driven Analytics utilizing FactoryTalk Edge Gateway and Smart Objects Linked to Device and Machine Builder Library Application Content	PT02 - Find the Trusted Partnership You Need with Lifecycle IQ™ Services
12:00 PM	Lunch and visit show floor						
1:00 PM	PRPT06 - Securing and Connecting Your PlantPAx® Systems to the Enterprise: 62443-3-3 Best Practice	CT571 - AC Drives and Harmonics: Review of Power Control Harmonics, Power Factor and Distortion	PT22 - Manage Today's Production Challenges with a Modern HMI	PRPT03 - Implementation of PlantPAx® Systems: Best Practices and What's New	PT69 - Three Successful Blueprints to Deploy Software on Edge Computing and Demo	PT50 - Build Smarter Machines Using Machine Data, Analytics and Augmented Reality	PT43 - VFD Cable: Essential or Overkill?
2:00 PM	Visit show floor						
2:30 PM	PT51 - The Future to Safe and Secure Communications for Remote Assets is Here	PT68 - Allen-Bradley® Kinetix® and STOBER: Integration with New STOBER Generation Three	PT19 - Never Miss an Update: Manage Your Enterprise Software/ Firmware with Ease	PT24 - ThinManager® Delivering and Managing The Connected Enterprise: Overview	PT47 - Micro800™ Controllers: Spectrum Controls Helping Rockwell Automation Extend System Solutions	CT574 - An Introduction to Fiix CMMS: Moving from Reactive to Preventative Maintenance	PRPT15 - Process Analytics & Optimization: Multi-site Deployment of Plant-wide Controller Diagnostic Solution
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4:00 PM	PT26 - Design Considerations for Reliable EtherNet/IP Networking	PT61 - Leveraging Technology to Monitor Power Quality and Motor Protection	PT21 - Power Your Smart Machine with the Latest Technologies in Control Software and Hardware	PRPT08 - Apply Human Factors to Alarm Management & HMI Design to Improve Operator Performance	PT58 - Securing Your OT Environment with Speed and Agility, while Embracing IT/OT Convergence	PT53 - Dream Report: Reporting in the Pharmaceutical and Food Industries	PT49 - Keeping Control Equipment Cool in Harsh Environments

hands-on labs

Thursday, August 12

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hands-on labs

HOL01 – Studio 5000 Logix Designer® Application: Advanced Lab: 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.

HOL02 – Studio 5000 Logix Designer® Application: Basic Lab: Are you new to Logix programming or want a quick refresher on the basics? This session will provide an overview of the core capabilities offered in the Studio 5000 Logix Designer® application and highlight the importance of good design practices. Mastering these fundamentals will ensure a good design and prepare you for the advanced session.

HOL03 – Design for Micro Control with Connected Components Workbench™ Software: Experience basic programming of a Micro800™ controller. Learn Connected Components Workbench™ software capabilities such as similar workflows to RSLogix 500® and Studio 5000 Logix Designer® applications, instruction library toolbar and Logix theme programming environment. Discover how to develop and test programs with the Micro800™ Simulator. Plus, see your digital engineering lab come to life via a virtual bottle filling machine.

HOL07 – Notifications and Taking Action using IoT Data using FactoryTalk® InnovationSuite: Providing operators, managers and engineers with relevant and timely information regarding operational status of their equipment is fundamental in achieving efficient, world-class operations. In this lab, you will learn about the various techniques used to notify users of various situations that require immediate action. You will leverage ThingWorx and ThingWorx Flow in order to generate notifications. Don't wait for things to happen - take action!

HOL11 – Basic Stratix® Switch and EtherNet/IP Features in Converged Plantwide Ethernet (CPwE) Architectures: This training will cover a variety of techniques and best practices using EtherNet/IP. We will demonstrate how to configure Stratix® switches using the Device Manager, the AOP and controller tags in Studio 5000®; and how to use the Stratix® FactoryTalk® View faceplates for diagnostics. It will also show configuration and diagnostics of a Device Level Ring (DLR) Topology.

HOL13 – Basic Drives Programming: Learn the basics of drive configuration and programming using PowerFlex® 525 AC and PowerFlex® 755 AC drives. Attendees will configure these drives using Connected Components Workbench™ software and the Studio 5000® Logix Designer application. This lab will show how Premier Integration enhances the use of PowerFlex® AC drives with ControlLogix® and CompactLogix™ controllers and other Allen-Bradley® products. You will also learn about the Automatic Device Configuration (ADC) feature for PowerFlex® drives in the Studio 5000® environment.

HOL14 – Integrated Motion on EtherNet/IP: Are you involved in the implementation of motion systems? With this pick-and-choose experience, you can familiarize yourself with the foundational concepts for implementing an Integrated Motion solution. If you are already familiar with the core concepts, you can take your learning to the next level by exploring additional topics for programming or troubleshooting a motion application. Upon completion of this experience, you'll be accustomed to the tools, techniques and features that are available for successful implementation of an integrated motion system.

HOL15 – System Design – PlantPAx® 5.0 - New Controllers and Workflows for Process Control: PlantPAx® 5.0 system design lab integration workstations, servers and controllers for implementation teams designing process control applications.

HOL18 – Introduction to the Design and Implementation of FactoryTalk® Security in a Control System: Learn how to design and build a FactoryTalk® Security infrastructure to secure and manage access and resources in your control system. In this lab you will learn how to: 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 have an opportunity apply basic security restrictions to Studio 5000 Logix Designer® projects. Topics include introduction to FactoryTalk® Directory, user/group management, setting security policies in the FactoryTalk® Directory, and understanding single sign on.

For additional information visit: https://rok.auto/raotm_spokane

HOL20 – Studio 5000® Application Code Manager Project Execution and Library Management: Quickly build your automation projects using the Rockwell Automation® Application Code Manager. This lab will provide you the opportunity to create project content by selecting library objects (control modules, equipment's modules, etc.) and providing configuration data, such as object name and description (i.e. V100, Tank 100 Inlet Valve), equipment setpoints, control interlocks, conditional inclusion (i.e. has diagnostics), etc. Once all the configuration, not programming, is provided you will initiate a project build (ACD file) that you will be able to download to a controller to run. In addition, this lab will provide you the opportunity to create a new library object that includes Logix, FactoryTalk® View SE, FactoryTalk® Historian and FactoryTalk® Alarms and Event content. Work with ACM Library Designer and Library Object Manager to build and publish library objects into the ACM database. Create highly parameterized library objects for modular reuse and flexibility.

HOL24 – Designing Machine-level HMI with PanelView™ 5000 and Studio 5000 View Designer®: Basic Lab: Learn how easy it is to create, download and run a PanelView™ 5000 graphic terminal project using Studio 5000 View Designer® software. This introductory lab covers tasks 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.

HOL25 – Distributed HMI with FactoryTalk® View Site Edition: Basic Lab: If you are new to FactoryTalk® View Site Edition, 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® View Site Edition application. Topics include creating an application, working with displays, working with tags, testing and running the application, applying graphic animations and creating trends.

HOL26 – ThinManager® Experience the Platform's Power and Simplicity: Basic Lab: If you are new to FactoryTalk® View Site Edition, 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® View Site Edition application. Topics include creating an application, working with displays, working with tags, testing and running the application, applying graphic animations and creating trends.

technical sessions

PT02 – Find the Trusted Partnership You Need with Lifecycle IQ™ Services: Sometimes achieving results requires a fresh perspective and an experienced coach. You need the right partner to lead the way. Someone who can work within the realities of your business and provide a more holistic perspective. Learn how Lifecycle IQ™ Services provides you with the depth of expertise and breadth of thinking you need to see possibilities and transform them into reality. Hear about how our teams of experts are helping customers achieve the productivity, safety and security they desire, no matter where you are in the lifecycle.

PT03 – Navigate Change with Modern Remote Support Options: More employees than ever before are working remotely, and new pressures face those remaining on the plant floor or in the field. Rockwell Automation has services available that will make remote monitoring and application support your first line of defense; augmented reality a valuable troubleshooting tool when on-site visits are not possible; and e-learning a way to improve workforce skills. Find out how modern support services can help your organization through these challenging times and beyond.

PT04 – The Urgency of Cybersecurity: Take the Next Step: Faced with a range of obstacles, manufacturers are changing how they approach cybersecurity. Cybersecurity has always been one of the most important pillars in digital transformation, but over the past several months, its importance has heightened. In this session, hear from cybersecurity leaders on how the lessons they have recently learned will impact the way manufacturers approach security going forward. Learn how to drive cybersecurity priorities and investments with an outcome driven approach.

PT05 – Cybersecurity for OT Systems: Where Do I Start?: Securing The Connected Enterprise requires a holistic defense in depth approach that provides insights to improve your bottom line. This discussion will address various system level scenarios with consideration to the attack continuum: help prevent, detect and respond. Attendees will better understand how to use the breadth of solutions offered by Rockwell Automation and our partners. In addition, learn about developing standards and regulations around security and the Rockwell Automation approach for building security into products.

PT06 – Overcome IT/OT Convergence Challenges with Managed Services: With IT/OT convergence transforming the plant floor, companies are struggling to find the right people and skill sets to manage not only new technologies but also new security threats. And now, the global pandemic is only exacerbating the situation by creating a greater need for secure remote access to plants. Some companies are finding relief by using remote, third-party managed services to monitor and manage key aspects of their operations. This session will explore areas where these services can help manufacturers address their top challenges, like cybersecurity, remote access and asset management. The session will also explore how managed services can help companies get more from increasingly digitalized plants – such as by managing virtualized applications that help drive flexible manufacturing, and using remote connectivity to centralize domain experts and reduce their travel needs.

PT07 – CIP Security: Improve Your Control System Defense-in-Depth Security: Control system security is traditionally addressed by defense in depth architecture with multiple layers of security. As threat actors have become more sophisticated, CIP-connected devices must be able to defend themselves. This session explains how CIP Security helps enable devices to protect themselves from malicious attacks focusing on authenticity, integrity and confidentiality.

PT09 – Mechatronics: Help Reduce Design Time and Commissioning Risk: Learn how you can reduce machine design time and commissioning risk by leveraging the Rockwell Automation® Mechatronics solution approach. From virtual design of your integrated robotic solution to cutting edge Independent Cart Technology to virtual commissioning, we'll demonstrate how a mechatronics lifecycle approach can optimize your machine or line design and get to production faster than before.

PT11 – Reduce Your Design Time for Small and Medium-sized Machines: Reduced design time means faster time to market, especially for small to medium-sized machines. The new Allen-Bradley® Kinetix® 5300 and Kinetix® 5100 servo drives from Rockwell Automation are designed to be paired with Allen-Bradley® controllers & motors, right-sized for small and medium machines. Discover examples of how this design approach can simplify machine design for OEMs and speed time to market.

For additional information visit: https://rok.auto/raotm_spokane

PT12 – How a Smart Machine Can Help Make You Profitable: Smart devices are foundational to smarter machines and equipment, smart connected systems and knowledge-driven operations. They are often your first step in a digital transformation because they deliver the data. The valuable information that can reduce one of your most significant issues – unplanned downtime. Join this session to learn how you can improve productivity with information that starts at your plant floor with devices that can enable predictive maintenance, pinpoint performance issues and reduce repair time. Bring the cost of lost productivity to the session and see how you will achieve significant savings – and a fast return on investment (ROI).

PT13 – How Do I Extract Analytics from My Smart Drive Solution?: In this session, customers will learn the value they get when they combine PowerFlex® drives with an analytics solution. PowerFlex® analytics functionality will be covered with a focus on integration into FactoryTalk® Analytics to provide solution level value. Highlighted use cases will show how combining these Rockwell Automation solutions can improve quality, productivity and reduced unplanned downtime.

PT15 – Apply Advanced Sensing Products to Solve Difficult Applications: Learn how our portfolio of smart sensors can help you solve difficult applications while supplying the real-time data to enable The Connected Enterprise. Highlighted will be the new Swift-E reconfigurable 3D sensor that helps customers implement flexible sensing to address application challenges including completeness checking, height/proximity sensing and box measurement.

PT19 – Never Miss an Update: Manage Your Enterprise Software/Firmware with Ease: Understanding what software and firmware you have and where it is could be the difference between a day of wasted time and getting real work done. Whether it's getting the latest patches or learning when that new version is released, staying informed means staying productive. Hear how users are able to manage their current software and firmware while also putting themselves in position to hear about the latest developments as they happen.

PT21 – Power Your Smart Machine with the Latest Technologies in Control Software and Hardware: Be more productive by harnessing smart information from your plant floor and delivering it to locations where that data can help you make the best decisions. In this session, you'll learn about solutions that deliver smart information: a scalable hardware portfolio that offers PC computing capability where Logix resides, enhanced visualization hardware offerings, our partnership with PTC, and new investments in our Analytics portfolio that allow proper contextualization of that data. Emulate3D™ is another key software offering that enables you to create a digital copy of your plant floor for testing, optimization and operator training to take advantage of that data. We will finish by looking into the future to explain how the products we are developing today will serve the evolving digital environment.

PT22 – Manage Today's Production Challenges with a Modern HMI: In today's world, managing the safety and security of your employees and operations while still meeting production quotas is more complex than ever before. Plant floor control, presentation of production data and providing remote connectivity to your operations are crucial, but, with a variety of options available, it can be hard to choose the right solution. This session will guide you through the challenges of optimizing your human machine interface and discuss how to securely deliver the right content to the right user at the right location. You'll learn about key decision criteria to consider when choosing an HMI solution and how our visualization platform answers the call.

PT23 – Work Smarter, Faster and More Efficient by Employing a Digital Environment: Big change starts with a small step. Understanding what is possible with digital engineering allows you to start with the area of your projects that you can improve today. Whether using a digital twin for virtual commissioning, or testing your program in an emulated environment before ordering parts, there are numerous starting points that you can choose as the right step for your company. It's time to rethink how you work and challenge your status quo.

PT24 – ThinManager® Delivering and Managing The Connected Enterprise: Overview: The ThinManager® platform is designed to simplify the way productivity content is delivered, and devices are managed within manufacturing or production 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® 12.

technical sessions

PT25 – Fundamentals of EtherNet/IP IIoT Network Technology: This discussion will review the capabilities and features of EtherNet/IP, including an overview of networking technology and terminology. Learn how the Common Industrial Protocol (CIP) fully uses the Open Systems Interconnection (OSI) 7-layer reference model and enables the Industrial Internet of Things (IIoT).

PT26 – Design Considerations for Reliable EtherNet/IP Networking: 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. A prior understanding of general Ethernet concepts, or attendance of the Fundamentals of EtherNet/IP Network IIoT Technology session is recommended.

PT29 – Apply EtherNet/IP Network Features for High-Performance Machine-level Architectures: This discussion reviews what to consider to successfully design and deploy high-performance EtherNet/IP features such as: Gigabit Ethernet, Direct Device Level Ring (DLR) to meet machine level network topology needs and Network Address Translation (NAT) to enable application code reuse. Discussions will also include recommendations for architectures that include real-time applications such as motion control and switch selection considerations. A prior understanding of general Ethernet concepts, or attendance of the Fundamentals of EtherNet/IP Network Technology session is recommended.

PT30 – Safe Position and Speed Monitoring: Real World Application of Advanced Safety Technology: Explore real-world advanced safety applications and how innovative machine design can improve productivity. Minimizing lock-out/tag-out downtime with alternative measures – including safe position and speed monitoring – can help protect workers and improve productivity.

PT31 – Purpose Driven Analytics Utilizing FactoryTalk Edge Gateway and Smart Objects linked to Device and Machine Builder Library Application Content: Experience how Smart Objects deliver meaningful information at the OT level when linked to Device Library and Machine Builder Library Content. You will see how FactoryTalk® Edge Gateway organizes and presents information models to an analytics engine and how equipment and behavior changes are discovered automatically. This demonstration will extend by showing workflows that add and update the Line Layout using Application Code Manager and leverage an AI engine to create meaningful insights in the process.

PT32 – Modernization: Improve Your Performance in Established Equipment: Aging equipment is less productive, less secure, increases safety risks and is more expensive to maintain. See how an effective modernization program can give machinery new life, making it more profitable, more secure, safer and less costly.

PT33 – What is Your Digital OEE Strategy? Innovate to Improve Operational Performance: Does your OEE solution report data, but lack insight? To make real improvements, you need to understand not just how your assets are performing, but why. Your workforce needs real-time data with actionable information that makes them more aware and efficient, so they can make your plant more productive. Learn how a scalable OEE strategy can help your workforce to visualize, benchmark and optimize assets and information as you implement your digital transformation using your existing control system and data you already collect.

PT34 – Real World Solutions for Your Next in Extended Reality: Extended reality (XR) is the next key component of a digital transformation. As part of The Connected Enterprise, extended reality uses a mix of wearable and handheld augmented reality (AR), mixed reality (MR) and virtual reality (VR) tools to evolve manufacturing and Industry 4.0, enable and support remote working, and deliver significant business benefits.

PT40 – Extend Visibility and Handling of Alarms and Events with WIN-911 Mobile: This session will focus on leveraging FactoryTalk® Alarms & Events for proactive alarm notification, as well as best practices for FactoryTalk® integration with a demonstration of the latest mobile app solution, WIN-911 Mobile.

PT43 – VFD Cable: Essential or Overkill?: We will examine issues that exist in VFD systems (control & communication issues, motors failure, drive trips, and more) and see how a properly terminated VFD cable can help solve them. We will show how high frequency drive outputs cause issues.

PT47 – Micro800™ Controllers: Spectrum Controls Helping Rockwell Automation Extend System Solutions: Learn how the combined Micro800™ Expansion and Plug-in offerings from Rockwell Automation and Spectrum Controls fulfill all of your needs as the winning solution. Special focus: Machine Builders, check out the most cost-effective solutions available in the market.

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PT49 – Keeping Control Equipment Cool in Harsh Environments: Discussion will revolve around material selection, common maintenance requirements, and cooling options to improve uptime and life of equipment in harsh environments by selecting the proper enclosure and cooling equipment.

PT50 – Build Smarter Machines Using Machine Data, Analytics and Augmented Reality: See how LLumin's READYAsset for Machines, can be used by OEMs to add pro-active maintenance into their offerings by incorporating machine conditions, analytics, and PTC Vuforia®.

PT51 – The Future to Safe and Secure Communications for Remote Assets is Here: With increased urbanization, services like water and wastewater, and power and gas distribution systems need to operate reliably and securely. Achieve this with secure and managed communication to remote sites using ProSoft's platform-agnostic solution.

PT53 – Dream Report: Reporting in the Pharmaceutical and Food Industries: Dream Report is a powerful reporting solution for all pharmaceutical, life sciences and food processing applications, with industry-specific functionality including batch definitions, electronic signatures, version management, audit trails and much more.

PT58 – Securing your OT Environment with Speed and Agility, while embracing IT/OT Convergence: As enterprises modernize to embrace concepts like Industry 4.0 as well as a remote workforce, OT cyber security is more critical than ever due to the implications of IT/OT convergence. The severity and frequency of OT threats to critical infrastructure is growing, and this expanded attack surface—which is invisible to traditional IT cyber security tools—has raised the urgency in which organizations must respond. For this reason, Claroty and Rockwell Automation will demonstrate how you can leverage market leading asset visibility from Claroty's Continuous Threat Detection and vulnerability disclosure to ensure that your operations remain secure, while your operational efficiency and IIOT goals remain on track, in a secure OT environment. In this session, hear how the latest innovations from Claroty can be utilized in combination with Rockwell Automations' services to address your OT cyber security needs with speed and accuracy.

PT61 – Leveraging Technology to Monitor Power Quality and Motor Protection: New sinewave filter technology with power quality monitoring ensures electrical assets are protected from failure, provides early detection of power quality problems, enables process control adjustments and provides real-time power quality data and your power assets. Learn about a complete suite of power solutions for your VFD, motor, harmonics and power quality applications.

PT68 – Allen-Bradley® Kinetix® and STOBER: Integration with New STOBER Generation Three: STOBER Drives will show how our Synchronous Geared Motors can increase machine performance and offer space saving solutions that easily integrate into Kinetix® 5500/5700 systems. Applications and our Generation 3 gearing will also be reviewed.

PT69 – Three Successful Blueprints to Deploy Software on Edge Computing and Demo: Edge computing is one of today's fastest-growing software deployment option for engineers. Gain actionable insights from customer stories, lessons learned and a demo of how to easily deploy apps on ztC Edge - a simple, protected and autonomous platform.

PT76 – Planning a Smart Machine Journey? We Have an App for That: Technology in the automation space is constantly evolving. From IIoT to analytics to machine learning, there are many new technologies you can employ for your benefit. In this session, we will distill the steps necessary to facilitate your journey. The result is a repeatable five step process that starts at assessment and finishes with new revenue streams based on Rockwell Automation® solutions that help you bring efficiency, productivity and longer lifecycles to your plant floor.

PT77 – A Simplified Intelligent Packaged Power Experience with Effective Program Management: Learn how our upfront consultative and program management services can help you across the full lifecycle – from initial design through commissioning, maintenance and optimization of your intelligent power system. We start with conceptual designs for an intelligent power solution, allowing for a complete digitally enabled power system along with intelligent motor and drive control. This helps mitigate risk with coordinated full scope solutions, including required switchgear, E-houses, MCCs, drives, and complete eSCADA and control systems. Come discover how our program management and project services can help you take the next step.

technical sessions

PRPT01 – Overview of the New PlantPAx® 5.0 System: What's New and What's Next?: The newly released PlantPAx® 5.0 DCS, the flagship system from Rockwell Automation, uses a plant-wide approach that scales from skids to large operations and provides actionable information for data driven decision-making across your enterprise. Learn how this modern approach to a DCS with the addition of new workflows, controllers and availability features helps streamline projects and reduce engineering efforts. As part of this session you will also be introduced to latest release of FactoryTalk® Batch v14, which adds online functionality for those industries looking to address complex batching applications.

PRPT02 – Defining and Sizing PlantPAx® Systems: Best Practices and What's Next?: Proper use of the PlantPAx® System Estimator helps ensure your system is designed for optimal performance. In this session you will learn about the latest tools, capabilities and guidelines provided by Rockwell Automation to help you define and size the appropriate PlantPAx® system architecture based on your project requirements. We will review the latest system and architecture rules, as tested in our characterization lab. We'll also examine capabilities offered in the PlantPAx® System Estimator including MCC integration and advanced sizing features to help you carry out and confirm proper sizing for new systems as well as system expansions. You will also get a preview of upcoming features that will provide you more flexibility to define and size systems for a wider range of system requirements.

PRPT03 – Implementation of PlantPAx® Systems: Best Practices and What's New: Engineering efficiency and consistent delivery are key topics for implementing any DCS successfully. Learn how to bring the Rockwell Automation® Modern DCS to the market faster using the latest capabilities and guidelines for implementing a system including the newly introduced graphic framework. This session will cover tools such as bulk-editing of library code and control strategies of common process functions. We will also cover system-wide functionality such as the integration of alarming and the ability to display information with contextual relevance.

PRPT05 – Introduction to the Rockwell Automation® Library of Process Objects: The Rockwell Automation® Library of Process Objects helps you quickly develop process solutions with rich functionality and known performance. In this session, we'll demonstrate how to build a control strategy using library objects. We'll present the library objects and their functions within a typical control system, highlighting features for operators, maintainers and engineers. Walk away understanding the value of using the library to develop process solutions.

PRPT06 – Securing and Connecting Your PlantPAx® Systems to the Enterprise: 62443-3-3 Best Practice: Integrating your PlantPAx® systems with your enterprise enables better visibility and collaboration that can help improve your bottom line. In this session, you will learn best practices to make this integration happen, including standard reference architectures and the latest in security and application guidelines. Discover how these capabilities align with The Connected Enterprise, as well as implications of establishing an enterprise data infrastructure and/or cloud-based applications.

PRPT08 – Apply Human Factors to Alarm Management & HMI Design to Improve Operator Performance: This presentation will highlight human factors principles that shape operator performance. It will discuss mental models, situation awareness, how operators process information and how they make decisions. Attendees will learn how to apply alarm management and HMI design in a way that effectively leverages these key human factors principles. They will also learn how to create an environment that promotes situation awareness and effective response to abnormal situations.

PRPT15 – Process Analytics & Optimization: Multi-Site Deployment of Plant-Wide Controller Diagnostic Solution: Scalability and usability are critical considerations especially for multi-site technology deployments. PlantESP is an intuitive process analytics and optimization solution that easily scales to support multi-site and enterprise deployments. This session will showcase the challenges of alternative solutions and demonstrate how PlantESP's architecture and metrics provide significant value in multi-site environments.

For additional information visit: https://rok.auto/raotm_spokane

CT570 – Going to Ground: AC Drives-Wiring, Bonding & Grounding Best Practices: Environmental conditions and power quality events can be extremely costly and reduce the life of a variable frequency AC drive system. Learn how you can optimize your variable frequency AC drive system investment through thoughtful installation considerations. This session will provide guidelines and recommendations to improve reliability, up-time, and longevity of a variable frequency AC drive system.

CT571 – AC Drives and Harmonics: Review of Power Control Harmonics, Power Factor and Distortion: This workshop will review harmonics in power systems caused by adjustable speed drives, with a focus on how they affect the power distribution system to which they are connected, including power factor and generator supplies. It will also provide a comparison of various harmonic mitigation techniques used with adjustable speed drives.

CT572 – Digital Twin Technology: Learn how "Digital Twin Technology" can help manufacturers animate and simulate a proposed system to reduce risk for all shareholders involved in an automation system.

CT573 – Logix Tips and Tricks: Learn about some tips and tricks in Studio 5000®. In this session we will cover User Defined Data Types, Add-On Instructions, Produced and Consumed Tags between Controllers, Customized Programming Techniques and features in Studio 5000® that enhance and increase efficiency in program development.

CT574 – An Introduction to Fiix CMMS: Moving from Reactive to Preventative Maintenance: It's time to say goodbye to paper work orders, spreadsheets, and hard-to-use software and simplify your journey to modern maintenance. Fiix is a cloud-based CMMS software that helps maintenance leaders plan, track, and optimize maintenance, complete with reports, embedded AI tools, and integrations to your control systems, ERP, and more. In this session, you'll learn how Fiix is helping maintenance departments move from reactive to preventative maintenance (and beyond!) through Fiix's mobile work order creation, asset hierarchies, and intelligent parts management capabilities.

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On the Move

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