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DX STRATEGISTS TRACK DESCRIPTIONS

DX01 Digital Co-innovation Brings The Connected Enterprise to Life

Sujeet Chand, SVP, Chief Technical Officer, Rockwell Automation
David Petrucci, Strategy Leader, Manufacturing Industry, Microsoft
Kathleen Mitford, EVP Chief Strategy Officer, PTC
Prith Banerjee, Chief Technology Officer, Ansys
George Young, Global Managing Director, Kalypso
Ian McGregor, Co-founder, Emulate3D

The pace of innovation is accelerating quicker than ever to maximize workforce productivity and optimize operations by delivering information to the appropriate person or system at the right time. Rockwell Automation is co-innovating with our partner ecosystem of digital leaders to help you bring your connected enterprise to life with best-of-breed solutions that connect critical business functions. Learn best practices on implementing a digital thread strategy enabled by advanced digital capabilities, such as browser-based CAD, 3D emulation, physics-based digital twins, and cloud to deliver exciting new capabilities for collaborative design, preventive maintenance, and real-time visibility.

DX02 Accelerate Innovation from Edge to Cloud to Improve Your Operations

Christoph Berlin, Partner Group Program Manager, Microsoft
Arvind Rao, Director, Information Solutions Product Manager, Rockwell Automation

Businesses and technology are evolving more quickly today than ever before. Collaboration between Operations and IT is essential to maximize value and expertise to improve your bottom line. Microsoft and Rockwell Automation are working on innovative edge-to-cloud-based solutions that leverage the best of both worlds to deliver increased agility and productivity. Learn how to deliver data contextualization and data modeling at the edge, enabling richer analytics insights. Then moving that data to the Azure cloud for easier consumption and fast access to holistic insights across machines, devices, and assets to deliver relevant, contextualized data for real-time collaboration across the value chain.

DX03 Enabling Workforce Continuity: Keeping Operations Going in Times of Crisis

Wes Sylvester, Global Director, Cisco

In these unprecedented times, it's more important than ever to be able to connect and work virtually. Teams need to be able to access production environments and maintain operations from a distance. That's why technology like remote access and cybersecurity are crucial to keeping visibility to your network, what devices are connected, and the status of production. This presentation will look at the best practices for technologies, standards, and solutions to enable workforce continuity.

DX04 Digital Twins: Challenges and Opportunities in Various Industries

Prith Banerjee, Chief Technology Officer, Ansys

The use of Digital Twins supports the Design, Analysis, Build, Manufacturing and Operations phases of asset-intensive industries. Digital Twins have a physical asset, a virtual asset (a simulation model of the asset), and a two-way information flow between the physical and virtual worlds using an IoT platform. Most recently, companies are using Hybrid approaches combining data-based analytics and physics-based approaches to build very accurate digital twins that require less training data. In this talk, we will discuss the challenges and opportunities of digital twins in various industries and our successes with various customers.

DX05 Leverage Smart Manufacturing to Drive Productivity and Growth

Simon Jacobson, Vice President Analyst, Gartner

The pre-pandemic focus on supply chains enabling agility and growth, driven by smart manufacturing, now faces a more powerful catalyst. COVID-19 created obstacles and opportunities for organizations to reboot smart manufacturing. Organizations have a rare moment to cultivate a balanced strategy in which manufacturing operations contribute to bottom-line improvements and drive top-line growth. It's time to shape your long-term strategy without hindering short-term actions.

DX06 Automotive 20/20: The State of Industry 4.0

Brett Smith, Director, Technology Center for Automotive Research

The Center for Automotive Research conducted a survey with leading car manufacturers and OEMs to assess the current state of adoption of digital transformation in terms of challenges being encountered, approaches and use case priorities, the value estimated or captured so far, and future opportunities. Insights from the study will be shared and implementation pathways discussed on how companies are adapting their approaches and plans to address gaps and looking for what is next on their digital transformation journey.

DX07 Understand the Value of PLM in Your Digital Transformation

Jon Nelson, Director, Kalypso
Larry Dube, Vice President, PLM Strategy, Fresenius Medical Care

Over the last 25 years PLM has evolved from engineering-focused document management and product data management to more strategic quality management and innovation management capabilities. Digital thread capabilities pushes the scope even further because PLM manages critical product data throughout the product lifecycle and across the supply chain. PLM provides a critical infrastructure for the digital transformation of the end-to-end product development lifecycle. Tackling this strategic, mission-critical PLM of today requires a comprehensive, integrated approach that combines business value, technology and organizational change.

DX08 Get a Handle on Your Data and Improve Your Competitive Edge with Artificial Intelligence

Chelsea Barnes, Digital Innovation Manager, Kalypso
Jordan Reynolds, Principal, Global Director of Data Science, Kalypso

Manufacturers that have gathered years of detailed data are now faced with the daunting challenge of converting it into competitive advantage. Applying artificial intelligence (AI) and data science-driven approaches can be game changing, but companies often get stuck moving beyond a proof of value due to challenges around data, technology, infrastructure and organizational change. Join this session to learn how manufacturers can deliver immediate value with the data and infrastructure they already have while building the business foundation to scale AI across the enterprise.

DX09 Get the Most Out of Machine Learning to Boost Industrial Performance

Michael Tay, Product Manager, Advanced Analytics, Rockwell Automation

Machine learning provides a data driven multiplier to expand your operations team's reach and effiency. By taking data and building operational models that leverage your team's know-how with data science, your team can continuously and indirectly oversee data from ten to twenty times their current capabilities. Learning to detect developing problems and opportunities is something your teams currently accomplish with deep dives into disparate data, but imagine a world where most of these problems are analyzed via streaming intelligent analytics, developed and maintained from your experiences.

DX10 FactoryTalk® InnovationSuite: Your Key to Industrial Digital Transformation

Andrew Ellis, Director, Global Technical Consultants, Rockwell Automation

Jennifer Mansfield, Product Marketing Manager, Analytics, Rockwell Automation

Ninety percent of industrial companies are investing in digital manufacturing to increase revenue, reduce operating costs and maximize asset efficiency. FactoryTalk® InnovationSuite, is the industry's first purpose-built platform designed to harmonize OT and IT to deliver maximum business outcomes for clients. FactoryTalk® InnovationSuite combines innovations in MES, advanced analytics, machine learning, IIoT and augmented reality (AR) into a tightly integrated software suite, tailored by industry, and right sized for scale. Discover how the Rockwell Automation unique digital transformation solution maximizes the value of operational data, delivering insightful views for rapid business decisioning for industrial leaders.

Sessions will run for 60 minutes.

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DX STRATEGISTS TRACK DESCRIPTIONS

DX11 Industrial Analytics: Reshape What's Possible

Gaurav Verma, Digital Transformation Marketing Manager, Rockwell Automation

Nithiya Parameswaran, Enterprise Analytics Business Leader, Rockwell Automation

Andrew Ellis, Director, Global Technical Consultants, Rockwell Automation

Analytics are often positioned as a turnkey solution, but turns out to be more complicated than that. To realize the promise of analytics, manufacturers need to manage high volume of information, integrate data from heterogeneous systems, deliver actionable insights in real-time and leverage deep process and domain expertise. You need a partner that not only knows your objectives but has a strong heritage in manufacturing and is familiar with the unique challenges in industrial analytics, manufacturing processes, hardware, and operations technology (OT). Join us to discover how Rockwell Automation® FactoryTalk® Analytics makes it easier to derive meaningful insights, scale insights across the organization and act on those insights.

DX12 MES: The Heart of Your Digital Transformation

Todd Montpas, Product Management, Information Software, Rockwell Automation

John Clemons, Senior MES Consultant, Rockwell Automation

Can you demonstrate compliance, catch quality concerns before they ship and adjust quickly to product changes? Are you resilient enough to withstand supply chain disruptions? Learn how manufacturing execution systems stand as the backbone to your digital transformation journey. We will walk through before and after examples that explain not only the process and the information available, but illustrate process improvement and what the information can do for a manufacturer.

DX13 Manufacturing Digital Transformation with Impact, Speed and Scale

JP Provencher, VP, Manufacturing Strategy and Solutions, PTC

There has never been a greater challenge imposed upon manufacturing and supply chains around the world than today. These disruptions are having dramatic effects on corporate leaders who are responsible for organizational strategies focused on value and optimized revenue. Even as companies are adjusting to a new normal, 80% have indicated that digital transformation has become more urgent as a result of the pandemic, but how do you determine which initiatives will have the greatest impact on optimal asset utilization and how do you operationalize digital transformations at scale?
Key take-aways:

- Gain insight on how customers can unlock value creation using impact, speed and scale
- Create a prescriptive framework to enable business goals, boost productivity and increase business resilience and agility
- Learn how PTC, Rockwell Automation and our combined partner ecosystem can jointly drive the execution and enablement of digital transformation

Sessions will run for 60 minutes.

INDUSTRY FORUMS DESCRIPTIONS

IF01 Ready or Not, the Remote OEM Future is Here

Billy Goodman, Managing Director, CAMA USA, Inc.

Yuichi Kusuguchi, General Manager, Hirata Corporation

Bryan Downer, Vice President of Sales and Marketing, Sani-Matic, Inc.

Mika Ide, Chief, Sales Engineering, Hirata Corporation

Alex West, Senior Principal Analyst, Omdia

Dan Throne, Regional OEM Manager, North America, Rockwell Automation

The year 2020 has been a catalyst for innovation and digital acceleration. Even the most advanced OEMs have had to instantly adapt to new ways of doing business. As machine and equipment builders around the world are challenged to sell, design, commission and service from afar, your "next" is closer than ever. Join us for a panel discussion featuring OEMs who have embraced the new way of doing business and spurred reinvention in response to this challenge. Hear the stories, challenges and triumphs from your peers as they navigate the now and pivot towards what's next in innovation, accessibility, worker safety, validation, training and problem resolution.

IF02 Accelerating Time to Value with Life Sciences Digital Transformation Strategies

Kristen Manchester, Senior Product Manager, MES/Sensors/Digital, Cytiva

Chris Binion, Director, Global Augmented Execution Systems, Thermo Fisher

Tom Oberbeck, Manager, MES, Biomerieux

Hooman Hooshiar, Director of Manufacturing Technology, Fresenius Kabi

David Sharpe, Director, Global Consumer Products Industry, Rockwell Automation

The current pace of change in the life sciences industry is both exciting and extraordinary. Major market forces such as intensifying regulatory scrutiny, growing product quality demands, emerging digital technologies and evolving healthcare models are causing core paradigm shifts in business strategies and processes alike. This environment opens opportunities for life sciences companies to better serve more people around the world with increasingly innovative and affordable diagnostics, treatments, combination devices and cures. Join us for a panel discussion with industry leaders who are implementing digital transformation strategies to build resilience, drive competitive advantage and help improve patient lives.

IF03 Oil and Gas Operations: Digital Automation Trends for Improved Operational Efficiency

Fred Wasden, Ph.D., P.E., Managing Member, Optilytix LLC

Chetan Desai, Vice President, Digital Technology, Schlumberger

Pal Roach, Oil and Gas Industry Consultant, Rockwell Automation

Andy Weatherhead, Chief Technology and Digital Officer, Sensia

Dave Hedge, IT Solution Architect, ExxonMobil

Mark Lacour, Director, modalpoint LLC

The oil and gas industry has experienced extreme volatility in the last few years: from oversupply and low prices to limited financial resources and more recently the challenges of managing operations in person. Nevertheless companies need to continue to turn a profit and act sustainably. And to help, the industry has recognized the importance of digital technologies to transform the way they operate. Many forms of technology in the IIOT space are providing opportunities for end users to optimize their assets and reduce their costs while managing the rapidly changing workforce dynamic. This forum will discuss the industry's needs and the capabilities of its suppliers to deploy digital technologies and deliver advanced automation to achieve better operational efficiencies.

IF04 Setting the Course for Digital Manufacturing in Food and Beverage

Rob Dargie, Amway

Jaime Loranca, Heineken

Gerald Holt, Global Director, Power and Control, Grupo Bimbo

Gopal Elumalai, Process Controls Automation, Digital Transformation (DX), ADM

Marcus Parsons, Director, Global Industry Strategy & Marketing, Rockwell Automation

As we navigate the largest business disruption in modern history, food and beverage companies have been faced with a variety of challenges that caused some to pause investment and others to accelerate digital transformation initiatives. Early results indicate the companies who double down on digital strategies are better positioned to maintain business continuity and resiliency, while improving operational efficiencies. Attend the Food and Beverage Industry Forum and hear from industry leaders who found innovative ways to leverage technology to improve performance, overcome security concerns, manage remote work and meet consumer demands. Our panel of digital transformation strategists will share how they got started, where they are now and what's next.

IF05 Efficient and Cost-Effective Power and Energy Solutions

David Donnaruma, Senior Controls Engineer, TTS Energy Services

Frank DiCola, CEO and Managing Partner, DCO Energy, LLC

Ricky Morgan, Vice President, Engineering, TTS Energy Services

Kurt Berg, Chief Engineer, Controls & Systems, EthosEnergy

Tom McDonnell, Power Generation and Energy Industry Leader, North America, Rockwell Automation

The power and energy industry continues to be dynamic with increasing production demands, the greening of fuel sources and the complex compliance requirements. No matter what job function, or level of experience, it is increasingly important to understand how to leverage the new technologies that are available in the automation industry today. Come hear leading companies and industry specialists demonstrate how they are leveraging Rockwell Automation technology and solutions to manage these challenges to achieve a competitive advantage. Speakers will address how Rockwell Automation technologies are being used across the different types of generation to provide tangible business outcomes.

IF0IF06 Adapting to the New Normal by Digitalizing Your Chemical Operations

George Young, Global Managing Director, Kalypso: A Rockwell Automation Company

William Grieco, CEO, RAPID Manufacturing Intitute

Adriano Carvalho, Corporate Automation Supervisor, FS Bioenergia

Marcelo Fernandez, CIO, FS Bioenergia

Gordon Bordelon, Regional Industry Manager, Rockwell Automation

The global pandemic has caused upheaval everywhere in the economy and especially in the chemical industry where demand destruction, disrupted supply chains and human capital challenges have been exacerbated. However, perhaps there's a silver lining: the accelerating adoption of digital technologies to safely and efficiently run operations in the new normal. And this has become a requirement to maintain a competitive advantage; it's no longer a "nice to have". While the chemical industry just can't digitalize overnight, it can't afford to wait years to reap the benefits of a digital thread. This panel discussion will bring together a variety of industry experts to discuss how digitalization can be rapidly achieved with the right technology, smart assets and planning to provide lasting business value.

IF07 The Next in Digital Transformation for the Water Industry

Kevin Stively, Vice President and Managing Director, Brown and Caldwell

Erik Jorgensen, Principal Engineer, Eastern Municipal Water District

Michael Prosser, Director of Special Projects, Design Build Engineering Services, Tesco Controls, Inc.

Janine Nielsen, Business Development Manager, Rockwell Automation

Automation plays an important role in the water industry's transformation to using IIoT and digital platforms to achieve a Connected Water Plant. In this forum, the audience will hear from panelists about how challenges in the water industry are being addressed and what is the impact of the "digital transformation" on plant infrastructure, operations (security, efficiency, reliability, quality, etc.) and their workforce.

IF08 Innovation in Turbulent Times: What's Next for the Mining Industry

Daniel Riquelme, Manager Control Systems, BHP

Phil Nelson, Principal Engineer, XPS Expert Process Solutions

Carl Weatherell, Executive Director and CEO, Canada Mining Innovation Council

John Woods, Global Sponsor for Smart Connected Operations, Kalypso: A Rockwell Automation Company

Michael Klein, Director of Global Industry Marketing Strategy, Rockwell Automation

There is a major shift occurring in the mining industry. The impacts of the global pandemic, along with new technologies and trends enabling digital transformation, are driving a change in productivity, supply chain and maintenance. This moderated panel discussion brings together industry experts to engage in conversation and bring real life examples on how innovation has impacted their operations, the challenges they're facing and the benefits they've seen.

Sessions will run for 60 minutes.

INDUSTRY FORUMS DESCRIPTIONS

IF09 Changing Times, Evolving Technology and Emerging Opportunities: What's Next for the Metals Industry

Antonello Mordeglia, President, Danieli Automation

Antonio Ambra, Business Development Manager, AIC

Ronald Ashburn, Executive Director, Association for Iron and Steel Technology

Wim Van Der Stricht, CTO, Technology Strategy, ArcelorMittal

Michael Klein, Director of Global Industry Marketing Strategy, Rockwell Automation

The metals industry has long faced an uphill battle when it comes to modernization. The impacts of the global pandemic, along with new technologies and trends enabling digital transformation, are driving a change in productivity, supply chain and maintenance. This moderated panel discussion brings together industry experts to engage in conversation and bring real life examples on how innovation has impacted their operations, the challenges they're facing and the benefits they've seen.

IF10 MES and the Digital Launch: Challenges and Opportunities during Unprecedented Times

Mike Boike, Director of Manufacturing, Head of AZ Operations, Lucid Motors

Mark Hernandez, Senior Vice President, Global Manufacturing and Supply Chain, Navistar

Brian Jacobs, Director of Manufacturing Engineering, Adient

Jason Cleveland, Vice President of Engineering, Eagle Technologies

Luca De Ferrari, Software Sales Manager, Rockwell Automation

Learn how leading companies in the automotive and tire sectors are launching new vehicles, production plants and equipment lines using digital solutions during one of the most challenging times in years. This panel discussion will explore how these companies are currently evaluating digital solutions, defining system requirements and processes, and executing complex projects globally, all within exceptionally tight timelines and budgets. You'll learn how technology can help manufacturers cope with unexpected and unprecedented challenges, while at the same time boosting productivity, and understand how, while no launch is easy, these leaders have realized decades of success with leading organizations. Whether you are a leading automotive and tire manufacturer, a startup company, or a tier supplier building and delivering manufacturing solutions, this is a must attend session.

Sessions will run for 60 minutes.

PERSPECTIVES DESCRIPTIONS

KN01 Imagine YOUR Next with Rockwell Automation

Welcome

Year in Review and Vision

Blake Moret, Chairman and Chief Executive Officer, Rockwell Automation

Rockwell Automation Thought Leadership

The Connected Supply Chain

Ernest Nicolas, Senior Vice President, Integrated Supply Chain, Rockwell Automation

Software and Control

Chris Nardecchia, Senior Vice President, Software and Control (Interim) and Chief Information Officer, Rockwell Automation

Tessa Myers, Vice President, Product Management, Rockwell Automation

Intelligent Devices

Fran Wlodarczyk, Senior Vice President, Intelligent Devices, Rockwell Automation

Lifecycle IQ Services

Frank Kulaszewicz, Senior Vice President, Lifecycle Services, Rockwell Automation

KN02 Define OUR Next Together

Keynote

ARMI Project: Passion for Innovation; How to Define Your Next in Innovation

Dean Kamen, Executive Director and Chairman of the Board, Advanced Regenerative Manufacturing Institute (ARMI) and President, DEKA Research and Development

Fireside Chat

Blake Moret, Chairman and Chief Executive Officer, Rockwell Automation

Jim Heppelmann, President and Chief Executive Officer, PTC

The Inevitability of Digitization

Ajei Gopal, Chief Executive Officer, Ansys

Intelligent Devices

Fran Wlodarczyk, Senior Vice President, Intelligent Devices, Rockwell Automation

Next in CPG: Survival Tactics for the Post-Pandemic Future

Steve Riordan, Global Director, CPG and Life Sciences, Kalypso

Rein Singfield, Manager, Kalypso

KN03 Discover YOUR Next: Inspire Innovation

Keynote

Jason Silva, Storyteller, Futurist

Customer Stories: *Successes Amidst Current Environment*

Universal Machines

Bart Alfons Talloen, Vice President, Supply Chain Innovation and Insights, Johnson & Johnson

The Future of Manufacturing

Sudhi Bangalore, Chief Technology Officer, Global Operations, Stanley Black & Decker

Developing a Productive Workforce in Age of Digital Transformation

Mike Carroll, SVP, Innovation, Georgia Pacific

Pete Frandina, Managing Director, North America Industry X, Accenture

Fireside Chat

Blake Moret, Chairman and Chief Executive Officer, Rockwell Automation

Chuck Robbins, Chairman and Chief Executive Officer, Cisco

Event Close

Sidney Sollazo, Director, Sales Enablement, Rockwell Automation

Sessions will run for 60 minutes.

PRODUCT and **TECHNOLOGY SESSIONS** DESCRIPTIONS

PT01 Create a Workforce Development Strategy that Works for You

Rockwell Automation, ProSoft

Manufacturers have been facing the industrial skills gap for years. And it's only going to get worse. The good news? There are many ways to mitigate workforce challenges. Learn how to develop a workforce development strategy and some of the ways you can take action today, from machinery design, cybersecurity, to e-learning to remote and managed support.

PT02 Find the Trusted Partnership You Need with Lifecycle Services

Rockwell Automation

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 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

Rockwell Automation

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

Rockwell Automation

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?

Rockwell Automation

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

Rockwell Automation

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

Rockwell Automation

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.

PT08 What's Next for Your Plant Floor Using Independent Cart Technology

Rockwell Automation

Does space come at a premium on your plant floor? Ever wonder how you can: Increase production without expanding manufacturing space? Maintain social distancing requirements and still be productive? Increase efficiency and flexibility for line changeovers and improve uptime? Attend this session on how Independent Cart Technologies from Rockwell Automation can help with the ever-evolving challenges manufacturers face in optimizing plant floor space needs.

PT09 Mechatronics: Help Reduce Design Time and Commissioning Risk

Rockwell Automation

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.

PT10 Myth Busters: Debunking the Top Misconceptions about Collaborative Robotic Applications

Rockwell Automation

Humans and robots working together to increase productivity and output is becoming more commonplace. However, so are the misconceptions about collaborative robotics applications. This session will address the common myths related to robots and provide straightforward solutions. Topics range from difficulty in implementation to challenges in maintaining safety in collaborative robotic applications.

PT11 Reduce Your Design Time for Small and Medium-sized Machines

Rockwell Automation

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 and 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.

PT12 How a Smart Machine Can Help Make You Profitable

Rockwell Automation

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?

Rockwell Automation

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.

PT14 Introduction to Intelligent Packaged Power

Rockwell Automation

With the expanding use of intelligent devices, it's 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.

PT15 Apply Advanced Sensing Products to Solve Difficult Applications

Rockwell Automation

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.

Sessions will run for 60 minutes.

PRODUCT and **TECHNOLOGY SESSIONS** DESCRIPTIONS

PT16 Understanding Arc Flash Hazards, Solutions and Standards

Rockwell Automation

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 and a review of arc-resistant equipment including the PowerFlex® 7000 AC drive.

PT17 Short-Circuit Current Ratings and Your Panel

Rockwell Automation

What has changed in the UL508A third edition? What are the implications on the panel? Have questions on short-circuit current ratings? This session will provide examples for short-circuit current ratings of panels based on the methods stated in UL 508A Supplement B. While other standards require short-circuit ratings, this webinar focuses on UL508A SB4 and SB5, short circuit and panel marking.

PT18 North America Standards Update: Applying Standards Changes to Allen-Bradley® Products

Rockwell Automation

Learn the high-level application of North America standards and codes to Allen-Bradley® products. This session covers both the recent changes and gives guidance on how to use Allen-Bradley® products to meet North American standards and codes. This presentation focuses on what has changed in the 2020 National Electrical Code and changes to the electrical safety standard for machinery (NFPA79) and industrial control panels (UL508A). After this session, you'll understand how recent changes affect customers and the application of industrial components.

PT19 Never Miss an Update: Manage Your Enterprise Software/Firmware with Ease

Rockwell Automation

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.

PT20 Connect, Enable and Secure Modern Industrial Architectures with FactoryTalk® Industrial Automation Software

Rockwell Automation

Smart operations are connected operations. Today, systems can connect machines, operators, data scientists, business systems and more to enable a completely Connected Enterprise. It takes the right communication technologies to enable those connections in a scalable and secure way. In this session, you will learn how our communications portfolio and network of partners enable the connections you need to get the most out of your operations.

PT21 Power Your Smart Machine with the Latest Technologies in Control Software and Hardware

Rockwell Automation

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

Rockwell Automation

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

Rockwell Automation

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

Rockwell Automation

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.

PT25 Fundamentals of EtherNet/IP IIoT Network Technology

Rockwell Automation

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

Rockwell Automation

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.

PT27 The Next Phase of the IT/OT Integration: Extend Your IT Security to the Cell/Area Zone of the Plant Architecture

Rockwell Automation, Ansys

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.

PT28 How Safety Product Mission Time Affects Your Risk

Rockwell Automation

Everything ages – even the systems that help keep your workers safe. The system you installed 20 years ago may no longer be keeping your workforce safe or productive. Safety product mission time is essentially the useful life of the safety product, and will vary depending on the product and its use. Once expired, the risk of failure increases along with risk to workers. This session will discuss the general mission time of safety products and when product or system replacement is necessary or modernization might be the more sensible option.

PT29 Apply EtherNet/IP Network Features for High-Performance Machine-level Architectures

Rockwell Automation

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

Rockwell Automation

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.

Sessions will run for 60 minutes.

PRODUCT and **TECHNOLOGY SESSIONS** DESCRIPTIONS

PT31 Purpose Driven Analytics Utilizing FactoryTalk Edge Gateway and Smart Objects linked to Device and Machine Builder Library Application Content

Rockwell Automation

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

Rockwell Automation

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

Rockwell Automation

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

Rockwell Automation, Kalypso

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.

PT35 Increase Production and Help Reduce Risk by Digitalizing the Next Generation of Floating Production Assets

Rockwell Automation

In recent years, FPSOs and particularly FLNG vessels because of the increased global demand for natural gas have increased in popularity as a way to produce hydrocarbons. Much time and effort have gone into the design of these enormous vessels to maximize their efficiency and production capability. This presentation will look at how Rockwell Automation and Sensia are partnering to bring a fully digitalized production solution to the next generation of these ships. From integrating the reservoir and sea-bed equipment, through wells and onto the vessel with on-shore operations and dedicated service centers, this new solution has the potential for 10-30% in automation savings as part of a capital project, plus potential increased production of 2-4% with correlated risk reductions in all HSSE areas.

PT36 Advances in Industrial Computing

Rockwell Automation

Industrial computing provides a multitude of tasks providing information from operator to enterprise. Working in tough environments, reliability and versatility are critical to helping provide and protect the information you use to operate, analyze and inform your organization. This session will discuss the range of uses and form factors industrial computing provides and how it improves your organization's performance.

PT37 Loop Tuning: Help Eliminate the Guesswork of Tuning PID Controllers

Control Station

Tuning oscillatory, noisy control loops shouldn't be a hit-or-miss proposition. Proven methods and available tools allow practitioners to eliminate the guesswork. This session shows how a simple, repeatable approach and use of simulation tools deliver consistent, optimal results.

PT38 Integration of IIoT Devices with Your Allen-Bradley® PLCs over EtherNet/IP

Grace Technologies

Most facility owners are constantly challenged with this question: What should I do with my existing equipment and systems in my digital journey with smart devices? We will show you how to make the best use of your existing systems with EtherNet/IP.

PT39 Reports from PLC, IoT, Historian and Alarms, with the Least Effort and Money

SyTech Inc

Produce professional web-ready reports and dashboards from the vast array of Rockwell Automation data. This session shows how to utilize your basic Excel skills to produce reports on any device and deliver to the right person, at the right time.

PT40 Extend Visibility and Handling of Alarms and Events with WIN-911 Mobile

WIN-911

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.

PT41 Single Pair Ethernet Applications and Implementation

Panduit

A new communication technology, Single Pair Ethernet, has been standardized for industrial devices. In this session, a panel of experts will discuss new SPE products and applications that benefit from it, and how it will help migration from fieldbus controls.

PT42 Identify, Solve and Help Prevent Industrial Ethernet Cable Problems in Harsh Industrial Environments

Fluke

Over 50% of industrial Ethernet problems are related to network cables. Commissioning delays and intermittent machine downtime are generally addressed with guesswork rather than root cause identification. In this session, you will learn Rockwell Automation cable test guidance, applicable standards, troubleshooting methods and pro-active steps to prevent problems.

PT43 VFD Cable: Essential or Overkill?

Southwire

We will examine issues that exist in VFD systems (control and 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.

PT44 Explore the Digital Thread with Rockwell Automation and EPLAN

EPLAN

The interface between the Rockwell Automation® Studio 5000® environment and the EPLAN Platform allows engineering to automatically transfer PLC specific data between the design and the programming environments. This reduces time, errors and increases productivity.

PT45 Ethernet-Advanced Physical Layer for the Future of Process Automation

Endress+Hauser

Unlock the potential of smart sensors and instruments for production facilities, enabled by Ethernet-APL technology. Get ready for, APL two wire Power over Ethernet, leveraging successful adoption of four wire Ethernet instruments over the decade.

PT46 Maximizing the Benefits of IIoT: The Powerful Combination of ThingWorx and Ewon Flexy

HMS Networks

The current business climate increased the importance of Digital Transformation (DX) for both end users and automation system suppliers. Companies are seeking easy to deploy IIoT solutions that allow them to achieve positive business outcomes quickly. Ewon Flexy makes industrial control system data collection simple and scalable, at the same time, it offers easy integration with IoT software platforms such as ThingWorx that add advanced IIoT capabilities that take your business value return to the next level. This presentation focuses on how Ewon Flexy users can integrate their devices to the ThingWorx software platform using HMS Networks' software connector. HMS will take the opportunity to present a real-life application from Dynamic Air, a conveying systems manufacturer which recently implemented an Ewon Flexy and ThingWorx solution. Claudio Luiz Ferreira from Dynamic Air Brazil will talk about their own DX experience and how HMS and ThingWorx helped them to achieve their objectives.

Sessions will run for 60 minutes.

PRODUCT and **TECHNOLOGY SESSIONS** DESCRIPTIONS

PT47 Micro800™ Controllers: Spectrum Controls Helping Rockwell Automation Extend System Solutions

Spectrum Controls

Industrial computing provides a multitude of tasks providing information from operator to enterprise. Working in tough environments, reliability and versatility are critical to helping provide and protect the information you use to operate, analyze and inform your organization. This session will discuss the range of uses and form factors industrial computing provides and how it improves your organization's performance.

PT48 Optimize Your Control Strategies for Less with Virtual Commissioning

Maplesoft

Learn how simulation-based digital twins produce accurate representations of your machine's behavior and performance. See real-time validation of your control code with CAD-based visualization – all before your machine goes into service.

PT49 Keeping Control Equipment Cool in Harsh Environments

nVent HOFFMAN

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

LLumin

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

ProSoft Technology

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.

PT52 Digitizing the Active Worker

Nymi

Get back to work in a safe, secure and simple environment. Learn how standards based Workplace Wearables help enable safety during a global pandemic, provide efficient manufacturing and worker satisfaction.

PT53 Dream Report: Reporting in the Pharmaceutical and Food Industries

Ocean Data Systems

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.

PT54 Empowering Wireless Technologies for Reliable I/O and IoT Infrastructure

ESTeem Wireless Modems

Empowering and implementing modern wireless technologies such as MESH, Virtual-Bridging and Managed Roaming is essential in fully enabling The Connected Enterprise and developing an integrated, reliable, and secure IIoT infrastructure.

PT55 Cement Plant Improves Network Reliability with Redundant Fiber Architecture

Softing Inc

Mitsubishi deployed a redundant fiber network improving reliability for its 24/7 operation. Learn how, without configuration, using a built-for-purpose, industrial, networking module that will leave you asking "why haven't I heard of this before?"

PT56 Achieving Precision Heat While Lowering Costs and Gaining Meaningful Data

Advanced Energy

Power control is crucial in temperature-based processes. Highlighting an integration of power controllers and Rockwell Automation® Integrated Architecture® in an autoclave, learn how to reduce costs, gain insights and achieve precise power control.

PT57 Deliver Yield Control and Condition Monitoring with Smart Weighing Sensors

METTLER TOLEDO

Demonstration of new applications and use cases illustrate smart weighing sensor capabilities to deliver accuracy, speed and uptime improvements that maintain project and customer profitability currently unattainable with standard weighing equipment.

PT58 Resistance is Futile and Costly: Embrace Modernization

Claroty

Many organizations are modernizing for competitive gains. Therefore, corporate IT teams are being tasked by management to secure their plants to protect production. They don't always approach this task as carefully as needed. This shares real customer experiences from early, mid, and late stages in the journey that apply regardless of your industry.

PT59 Motor Failure? Protect Your Critical Equipment

MTE Corporation

Differential and common mode issues have adverse effects on motors. MTE's SineWave Nexus™ filter eliminates harmful common mode and differential mode voltages and current. This session will highlight the benefits and success of the Nexus.

PT60 Edge to Cloud Communication with Single Pair Ethernet

Belden

Bandwidth, length limitation and complexity in protocols are common problems in an industrial network. Single Pair Ethernet technology solves these by providing 10Mb/s Ethernet communication over 1 km reach, while providing 50 W power over data line.

PT61 Leveraging Technology to Monitor Power Quality and Motor Protection

TCI, LLC (Transcoil)

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.

PT62 Fluid Power Safety Assessment and Risk Reduction Process

Ross Controls

This session will cover fluid power safety requirements, fluid power assessment principles and the fluid power risk reduction process.

PT63 Alarm Notification Software Integration with FactoryTalk® and PTC ThingWorx

SeQent

This session will showcase our integration with FactoryTalk® HMI, A&E, OPC and PTC ThingWorx. Explore our advanced alarm lifecycle management features and dispatch to Motorola two-way radios, smartphones, PAs and telephone voice call-out.

PT64 Hazardous-Area Approved Mobile Devices Bring TeamONE Productivity to Any Site Location

Pepperl+Fuchs

In today's world of industrial mobile computing and communication, including IIoT, we can show you how Pepperl+Fuchs can add value across facilities with our hazardous-area approved mobile devices. It's all part of a new connected reality with the mobile worker in mind.

PT65 Tips, Tools and Tricks to Tame Digital Transformation

Data-Linc Group

Digital Transformation converges IoT/IIoT, big data and artificial intelligence to help maintain industrial applications' efficiency. Discover how to survive the 24/7 clogged data-highway rush-hour impact on operations and learn the essentials of wireless network troubleshooting to avoid unplanned downtime.

PT68 Allen-Bradley® Kinetix® and STOBER: Integration with New STOBER Generation Three

Stober

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.

Sessions will run for 60 minutes.

PRODUCT and **TECHNOLOGY SESSIONS** DESCRIPTIONS

PT69 Three Successful Blueprints to Deploy Software on Edge Computing and Demo

Stratus Technologies

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.

PT70 Valve Terminals with Pneumatic Safety Functions and EtherNet/IP

Festo

Valve terminal to achieve safe applications with minimal effort. Drive up to three zones with pneumatic safety functions; preventive start-up and safe exhausting. Use safe outputs with internal monitoring/control via EtherNet/IP to reach PLd cat 3.

PT71 Reduce Costly Downtime Using Hubbell's Intelligent Electrical Monitoring Devices

Hubbell Incorporated

Metrics related to electricity consumption can provide a great deal of value to industrial environments of all kinds. They can provide insights into equipment operation, help predict declining performance and imminent component failures, optimize efficiencies, maximize uptime and more.

PT72 Enterprise Wide Connectivity. Is Your Data Future Proofed or Failure Prone?

Kepware PTC

Knowledge resource dependent, ad-hoc heterogeneous connectivity architectures are "failure prone". Learn from the connectivity experts at PTC Kepware how you can simply "future proof" and securely standardize access to data across your organization.

PT73 Reduce Unplanned Downtime and Endorse Predictive Maintenance

Leviton Manufacturing Co., Inc.

Integrating condition monitoring technology into conventional wiring devices provides a means to respond to unplanned events more quickly and safely and support predictive maintenance programs by providing operational data. Learn how Leviton's Inform Technology is making this happen.

PT74 Strike Back Against Electrical Shock with Prevention through Design

Littelfuse, Inc.

Electrical shocks represent most workplace electrical injuries and fatalities yet can be a weakness in electrical safety training. Learn how Special-Purpose GFCIs up to 600V as defined by UL 943C can greatly impact worker safety for many industries.

PT76 Planning a Smart Machine Journey? We Have an App for That

Rockwell Automation

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

Rockwell Automation

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, MCC's, drives and complete eSCADA and control systems. Come discover how our program management and project services can help you take the next step.

Sessions will run for 60 minutes.

PSUG (PROCESS SOLUTIONS USER GROUP) DESCRIPTIONS

PRATE01 Cybersecurity in Process Applications

Rockwell Automation

The need for cybersecurity in your industrial automation system has never been greater. The industry is quickly attacking the risks with technology and best practices in the defense-in-depth approach. We've brought in a panel of experts who can answer your questions whether you're just starting in the security journey or looking for answers to more difficult questions. This session features a panel of subject matter experts ready to answer audience questions and discuss current topics and trends.

PRATE02 PlantPAx® System Design and Deployment

Do you want to achieve better results with the PlantPAx® system? This session allows you to leverage the knowledge of system experts who can help ensure that the PlantPAx® system is delivered efficiently and designed for optimal performance. Ask about the latest system capabilities available to assist in your efforts. This session features a panel of subject matter experts ready to answer audience questions and discuss current topics and trends.

PRATE03 Batch Management and Control

Need to have a single record to pull data from multiple systems to tell the full production story? Looking to reduce time to market by taking a modular approach to batch process design and automation? This is your opportunity to ask the experts about the latest batch industry best practices and system capabilities to optimize design, improve flexibility, provide more intuitive operations and achieve your production goals. This session features a panel of subject matter experts ready to answer audience questions and discuss current topics and trends regarding the automation of batch processes.

PRATE04 Power, Intelligent Motor Control and the Library of Electrical Protection Devices

Rockwell Automation

Easy access to critical information from your intelligent motor controls can improve operations, maintenance and plant efficiency. Now this access is extended to the switchgear and E-Houses of your facility through IEC 61850 for tighter power and process control. This session allows you to leverage the knowledge of experts in motor control and PlantPAx® systems to provide best practices and methods for implementing and leveraging a high level of integration. It will also feature a panel of subject matter experts ready to answer audience questions and discuss current topics and trends.

PRCS01 Digital Transformation at Buckeye Partners, L.P.

Stratus

Learn how Buckeye is digitally transforming their business by encouraging the convergence of IT/OT, leveraging the powerful Rockwell Automation® PlantPAx® solutions and protecting their edge computing with Stratus Technologies. Buckeye is one of the largest independent liquid petroleum pipeline operators with 6000 miles of pipeline, 115 terminals and 118 million barrel tank capacity. Results from the South Texas Gateway Terminal project will be shared to illustrate lessons learned.

PRCS03 How Do You Monitor Your Safety System?

Sensia, exida

It is well understood that a safety Instrumented System (SIS) is there to monitor the process, such that if an unsafe condition is detected, the SIS reacts independently and autonomously to bring the process to a safe state. But who or what monitors the SIS? How do we know that after months or years of normal operation, the SIS will do "what it needs to do"? There are Sensors that measure process conditions, Logic Solver elements that read the sensors, apply the rules defined by the application code and send the appropriate signals to the final elements, which ultimately bring the process to its safe state. These final elements in themselves are complex devices, with electronic, electromagnetic, pneumatic, and mechanical subsystems. This interconnected set of devices create a SIF, which if all is working as it is designed to, may only be called upon to operate once over a 5 to 10 year period, how do we know that after that time the SIF will actually function as designed? This session will discuss what it takes to ensure that each SIF will do exactly what it's supposed to do, when it is called upon to respond, even if it only ever has to act once in 20 years, it simply has to work. What needs to be maintained, what needs to be monitored, how is it tested, when does it need testing, what needs to be done manually, what can be automated.

PRCS04 Devastating Fire Means Rapid Rebuild with PlantPAx® DCS in Record Time

Advanced Electrical Technologies, Global Process Automation

Plummer Forest Products (PFP), a premiere particle board manufacturer, suffered an extensive fire in 2019 that consumed part of the building and destroyed much of the control systems. The owner chose to rebuild the plant and replace the decimated proprietary control system with the Rockwell Automation PlantPAx® DCS platform. PFP was contractually obligated to be in full production in four months. Come see project progression and how several players came together to meet this critical deadline.

PRCS05 Revamping and Migrating a Legacy DCS System for a Complete Rolling Mill Plant

Automazioni Industriali Capitanio srl

Learn how a rolling mill plant migrated from ABB AC450 to PlantPAx® DCS with only ten days available for outages. AIC will discuss the project stages and how they successfully installed and commissioned within their tight deadlines. The ability to easily troubleshoot and access the system remotely were instant wins for the plant.

PRCS06 Beer Brewer Improves Consistency and Visibility with Factorytalk® Batch and Recipe Management

PREMIER System Integrators

A large beer manufacturer in Ohio was working with obsolete hardware and unsupported software. FactoryTalk® Batch and FactoryTalk® Batch View™ were used to execute batches and provide batch status to the brewers. The brewhouse processes include truck unloading, bulk malt and hand-add material handling, milling, mashing, lautering, brewing, cooling, fermentation, system CIPs, and all required utilities. Downtime was avoided by replacing obsolete hardware, additional return was realized by starting an Industry 4.0 initiative to replace manually collected batch report data with automation collection. The automated reports were formatted to match the existing brewer's handwritten reports to minimize training cost and improve efficiency.

PRCS07 US Naval Base Kitsap Steam Plant DCS Migration

Systems Interface Inc.

The US Navy is migrating from Westinghouse WDPF to PlantPAx® DCS. Systems Interface, Inc. and Rockwell Automation partnered to design and deliver a modern DCS, Burner Management and Combustion Control Systems. Learn how they are executing during ongoing operations with extensive up-front migration and acceptance test planning for all hardware, software, and control strategies.

PRCS09 Delivering a New Tissue Machine in a Covid World

Kimberly Clark

Kimberly-Clark was replacing an old tissue machine with a brand new one that included a control system that provides a unified view and control of components from multiple OEM vendors. Then the pandemic hit. But "the show must go on" and it did! This case study will examine the control system, lessons learned and the out of the box thinking required to get the machine into production in a Covid World.

PRCS10 Ivy League School Upgrades Legacy System for Improved Reliability, Optimization, and Scalability

Thermo Systems

Thermo Systems and Rockwell Automation® partnered to migrate a legacy Modicon PLC control system to an Allen-Bradley® system for an Ivy League University in the Northeast. This control system provides balance of plant functions for a critical 13,000-ton chilled water facility that provides cooling to the university's critical research labs. You will learn how Thermo System was able to overcome an aggressive project schedule and limited physical space to deliver improved reliability while enabling future scalability and optimization of the control system.

PRKN01 Insights and Observations: An Interview with David Rapini, PlantPAx Business Manager

Rockwell Automation

From the new PlantPAx 5.0 DCS launch to how Rockwell Automation is helping process customers better manage their plant lifecycles, this interview with David Rapini, PlantPAx Business Manager, will cover a lot of ground. Watch this engaging Q&A to gain insight on how Rockwell Automation is navigating today's industrial production issues and opportunities.

PRKN02 Establishing the Digital Thread for Process Industries

Kalypso: A Rockwell Automation Company

This session will define the end-to-end digital thread for process industries – from product to plant to end user – and explore opportunities for digitalization based on leading use cases.

PRPT01 Overview of the New PlantPAx® 5.0 System: What's New and What's Next?

Rockwell Automation

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.

Sessions will run for 60 minutes.

PSUG (PROCESS SOLUTIONS USER GROUP) DESCRIPTIONS

PRPT02 Defining and Sizing PlantPAx® Systems: Best Practices and What's Next?

Rockwell Automation

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

Rockwell Automation

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.

PRPT04 Administration and Maintenance of PlantPAx® Systems: Best Practices and What's New

Rockwell Automation

Are you looking for guidance on keeping your system current and healthy? Learn the latest guidelines and methods for the administration and maintenance of the PlantPAx® System. See our new tools and get a preview of what's coming in future releases.

PRPT05 Introduction to the Rockwell Automation® Library of Process Objects

Rockwell Automation

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

Rockwell Automation

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.

PRPT07 Batch Management: Overview and What's New and What's Next

Rockwell Automation

Today's dynamic production climate presents multiple challenges: control costs, mitigate risks and seize every opportunity to gain a competitive edge. The latest release of Rockwell Automation flagship batch offering, FactoryTalk® Batch v14, helps user in both hybrid and batch applications tackle these challenges with an easily scalable system that focuses on improving operator effectiveness and higher throughput. You will be introduced to the latest release that offers online functionality for complex applications and promotes integration of information with DCS and MES systems.

PRPT08 Apply Human Factors to Alarm Management and HMI Design to Improve Operator Performance

Rockwell Automation, exida

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.

PRPT09 FactoryTalk® Brew™: Designed to Help Large Brewers Succeed

Rockwell Automation

This presentation will provide an overview of FactoryTalk® Brew™ with a guided demo highlighting the solution's architecture and functionality.

PRPT11 FactoryTalk® InnovationSuite for Process Control in PlantPAx® 5.0

Rockwell Automation

Learn how the newly released Rockwell Automation® PlantPAx® 5.0 release will enable FactoryTalk® InnovationSuite to bring to life live and historical data with feature-rich dashboards, PTC process templates and advanced analytics. Through demonstrations, you will see how PlantPAx® 5.0 can be utilized within Vuforia® and how control strategy within an augmented reality can simulate actionable faults and analytics.

PRPT12 Modernization and Migrations from Legacy DCS Platforms to PlantPAx® 5.0

Rockwell Automation

In today's dynamic production environments, 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 assist in planning, budgeting and replacing legacy DCS systems. We will explore how different outcomes gained during a modernization will enable your digitization, optimization and analytic strategies of the operation. These additional benefits can help reduce the risk during the project and ongoing production while accelerating the ROI.

PRPT13 Visualization and UI Methods to Improve Operator Responses in Abnormal Situations in PlantPAx® 5.0

Rockwell Automation

The typical plant operator must interact with a variety of interfaces such as process displays, trends, videos and alarm lists throughout a shift. Navigating these effectively in abnormal conditions can become paramount safety issues. This session will provide an approach for applying the ANSI/ISA 101 standard concept to design systems, with a focus on display design and hierarchy. Learn how to design an effective operator interface to assure your operators are controlling your processes safely while meeting production and quality targets.

PRPT15 Process Analytics and Optimization: Multi-Site Deployment of Plant-Wide Controller Diagnostic Solution

Control Station

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.

PRPT16 The DCSNext® Methodology: Migrate Your Way to Success with a FEL

Maverick

A control system migration is typically a once-in-a-career opportunity, so it's important to get it right. Migration projects are extremely complex, and the risks can be high without proper planning – the key lies in the front-end loading, or FEL stage, which leads to a feasibility analysis of different options and finally to a requisite justification for funding approval. FELs, especially those following MAVERICK's DCSNext methodology, are structured in a way to help plan for migration by executing the engineering upfront – really from inception until implementation – focusing on funding approval and definition. Early efforts spent on good definition will pay for itself in terms of minimized cost and reduced schedule. Learn why focusing on early planning and the budgeting effort ensures the future success of your project.

PRPT18 State-based Control: Turning the Skeptic into a Believer

Maverick

State-based control isn't a new approach, but industry is increasingly interested in how it can improve plant operations and mitigate risk. Process automation projects migrating from loop controls are oftentimes looked at with a skeptical question mark, especially if the facility that needs modifying operates in the run condition 90% of the time. Change is hard but seeing the ease and orderliness of startup using a state-based control approach will turn any skeptic into a believer. We demystify state-based control and explain why it is the next step in industrial automation.

Sessions will run for 60 minutes.

ROCKWELL AUTOMATION BOLD CONVERSATIONS DESCRIPTIONS

BC01 Inclusive Leadership during the Time of the Pandemic

Rockwell Automation

The transition to a new way of working – in the context of a global pandemic – presents both challenges and opportunities for promoting diversity and fostering inclusion. It's more important than ever for organizations and individuals to practice inclusive leadership. In this session, panelists will discuss current challenges engaging remote teams, overcoming bias, balancing work and personal commitments, and leading with empathy.

BC02 Black Lives Matter in Corporate Spaces

Rockwell Automation

Black Lives Matter is not just a slogan seen and heard in streets around the world in response to injustice and brutality; it is a fundamental human rights issue that is relevant in corporate spaces as well. The recent racial injustices of Black Americans have prompted a wave of statements from CEOs and business leaders expressing solidarity and a commitment to address the problem of systemic racism. But how? In this session, panelists will discuss why this is an important topic to speak-up about, and encourage brave spaces for conversations, in the work environment.

BC03 Combatting Microaggressions in the Workplace

Rockwell Automation, RealWear, Endress+ Hauser, Kalypso

"You are so articulate." "You should smile more." These everyday verbal and nonverbal slights or snubs, known as microaggressions, are typically not intended to cause harm or hurt feelings, but their impact often does just that. In this session, panelists will discuss examples of microaggressions, their impact and how to address them in the workplace.

BC04 Equity in Early STEM Education

Rockwell Automation, Claroty, Cisco, Microsoft, Owl, Cyber Defense, Nymi

Creating a more diverse workplace is a top priority for today's employers. The first step in building a more diverse workforce is to hire more talent from underrepresented groups – for many companies this requires proactively changing some of the ways they find and attract talent - including starting with K-12 education. Ensuring equity in education for all students in schools, classrooms, and communities is critical for ensuring all students have an opportunity to succeed in STEM. In this session, panelists will discuss current challenges with equity in early STEM education, and how companies and individuals can make a difference for future talent.

BC05 Inclusive Workplaces in a Divisive World

Rockwell Automation, Owl, Cyber Defense, Claroty, Nymi

To work effectively with customers, partners and employees around the world, companies need to work inclusively across differences. But differing belief systems or ideologies can sometimes create tension. Whether it's differing viewpoints on current events, politics or personal values, polarizing topics surround us daily. To succeed in our jobs, we need to work effectively in culturally diverse environments – and that starts by encouraging listening, learning and respect. In this session, our panelists will discuss how to navigate difficult conversations, breaking down barriers in the workplace to create a more inclusive environment for everyone.

Sessions will run for 60 minutes.