

# Automation Fair® 2016 On-Site Directory

November 9-10, 2016  
Georgia World Congress Center  
Atlanta, Georgia, USA



## Begin Your Journey to The Connected Enterprise

LISTEN.  
THINK.  
SOLVE.

 Allen-Bradley • Rockwell Software

**Rockwell  
Automation**



# Welcome to the 2016 Automation Fair® event

## Smart Manufacturing Begins with The Connected Enterprise

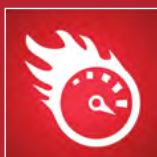
### Highly connected, knowledge-enabled operations

The “smart” in Smart Manufacturing is a highly connected, knowledge-enabled industrial enterprise where devices and processes are connected, monitored and optimized to enhance productivity, sustainability and economic performance.

Today, this means taking into account advances within a Connected Enterprise that allow smart objects and machines to interact and communicate with one another, configure themselves, analyze data, predict and prevent failures and adapt to changes within the manufacturing process. Self-aware and system-aware, this connectivity drives efficiency and increases business value. Ultimately, every employee is enabled with contextualized information, using smaller footprints of real-time data analytics, and the workforce evolves into a team of knowledge workers as operators.

Enterprises that embrace Smart Manufacturing are flexible, agile, efficient, responsive, collaborative and lean. Central to success are the seamless collaboration and integration of IT and OT, where digital, manufacturing and industrial capabilities can be managed on an ongoing basis, allowing for real-time production modifications based on real-time analytics. This enables production to demand, rather than capacity and the ability to navigate proactively through the supply and demand chain. This adaptability makes it possible to be more competitive, more efficient, more profitable and future-proof.

Through The Connected Enterprise portfolio of products and services, Rockwell Automation helps manufacturers and industrial operators to incorporate Smart Manufacturing strategies and capitalize on the promise of an ever more connected world. We do it through a phased approach that allows you to leverage your existing automation assets while preparing for the next generation of integrated control and information innovations.



**Speed Time  
to Market**



**Lower  
Costs**



**Improve Asset  
Utilization**



**Reduce  
Risk**



***Welcome to the 2016 Automation Fair® event,  
celebrating its 25<sup>th</sup> Anniversary!***

**EVENT HOURS:**

Wednesday, November 9 – 8 a.m. to 5:30 p.m.

Thursday, November 10 – 8 a.m. to 4 p.m.



**ROCKWELL AUTOMATION EVENT MOBILE APP**

Download the **ROKEvents app** from your app store and get even more out of the Automation Fair® event! With the mobile app, you can:

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



# Social Media and Mobile

## STAY CONNECTED WITH US

Get access to the latest information, updates and conversations going on during the event by following any of the following social media channels

Use the official  
**Automation Fair® Event**  
hashtag to join  
the conversation.  
**#AutoFair16**



### Like Us on Facebook

[Facebook.com/ROKautomation](https://www.facebook.com/ROKautomation)



### Watch & Learn on YouTube

[YouTube.com/ROKAutomation](https://www.youtube.com/ROKAutomation)



### Follow Us on Twitter

Follow us on Twitter at  
[@AutomationFair](https://twitter.com/AutomationFair)  
[@ROKautomation](https://twitter.com/ROKautomation)  
[#AutoFair16](https://twitter.com/AutoFair16)



### Read Our Blog

[RockwellAutomation.com/blog](http://RockwellAutomation.com/blog)

## GET CONNECTED!

**Interact with us online**  
for all your social media  
and mobile app questions.



## AUTOMATION FAIR® MOBILE

Automation Fair® has a mobile app for you to get even more from the event. Customize your experience during and after the show!

Scan the QR code or visit  
[www.automationfair.com](http://www.automationfair.com)  
to download the app.



## STAY UP TO DATE WITH OUR PUBLICATIONS

### The Journal from Rockwell Automation and Our PartnerNetwork™

Published bi-monthly to share our company, partner and industry news with you.  
[www.rockwellautomation.com/global/go/tjssubscribe](http://www.rockwellautomation.com/global/go/tjssubscribe)

### The Automation Fair® ShowDaily

Stay updated with all the event news with daily e-newsletters.

Visit [www.automationfair.com](http://www.automationfair.com) and select the "Subscribe" button or go to [www.controlglobal.com/automationfair/index.html](http://www.controlglobal.com/automationfair/index.html) during the event week.

### Rockwell Automation Blog

Get our latest posts in summaries twice a month.

[www.rockwellautomation.com/global/go/blogsubscribe](http://www.rockwellautomation.com/global/go/blogsubscribe)



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## WEDNESDAY, NOVEMBER 9

	Exhibit Hall <i>See pages 8-23 for more details.</i>	Forums <i>See pages 25-33 for more details.</i>	Hands-on Labs <i>See pages 34-35 for more details.</i>	Technical Sessions <i>See pages 36-43 for more details.</i>
8:00 a.m.	8:00 a.m. – 5:30 p.m.  <i>See pages 22-23 for the full exhibitor list and map.</i>		8:00 – 9:30 a.m. <b>Hands-on Labs Session 1</b>	8:00 – 9:00 a.m. T01, T08, T15, T22, T29, T36, T43, T50, T57, T64, T73, T80, T87, T94
8:30 a.m.				
9:00 a.m.		9:00 – 11:30 a.m. <b>Food &amp; Beverage</b>		9:00 – 10:00 a.m. T02, T09, T16, T23, T30, T37, T44, T51, T58, T65, T74, T81, T88, T95
9:30 a.m.		<b>Pulp &amp; Paper</b>		
10:00 a.m.		<b>Water Wastewater</b>	10:00 – 11:30 a.m. <b>Hands-on Labs Session 2</b>	10:00 – 11:00 a.m. T03, T10, T17, T24, T31, T38, T45, T52, T59, T66, T75, T82, T89
10:30 a.m.				
11:00 a.m.				11:00 a.m. – 12:00 p.m. T04, T11, T18, T25, T32, T39, T46, T53, T60, T67, T76, T83, T90
11:30 a.m.				
12:00 p.m.				
12:30 p.m.				
1:00 p.m.		1:00 – 3:30 p.m. <b>Life Sciences</b>	12:30 – 2:00 p.m. <b>Hands-on Labs Session 3</b>	1:00 – 2:00 p.m. T05, T12, T19, T26, T33, T40, T47, T54, T61, T68, T77, T84, T91
1:30 p.m.		<b>Oil &amp; Gas</b>		
2:00 p.m.		1:00 – 4:00 p.m. <b>Automotive &amp; Tire</b>	2:30 – 4:00 p.m. <b>Hands-on Labs Session 4</b>	2:00 – 3:00 p.m. T06, T13, T20, T27, T34, T41, T48, T55, T62, T71, T78, T85, T92
2:30 p.m.				
3:00 p.m.				3:00 – 4:00 p.m. T07, T14, T21, T28, T35, T42, T49, T56, T63, T72, T79, T86, T93
3:30 p.m.				
4:00 p.m.				
4:30 p.m.				
5:00 p.m.				
5:30 p.m.				



### EARN PROFESSIONAL DEVELOPMENT HOURS

Earn Professional Development Hours (PDHs) and a Certificate of Completion for attending hands-on labs, technical sessions and industry forums at the Automation Fair® event!

Following the Automation Fair® event, you will receive an email regarding how to access your Certificate of Completion.



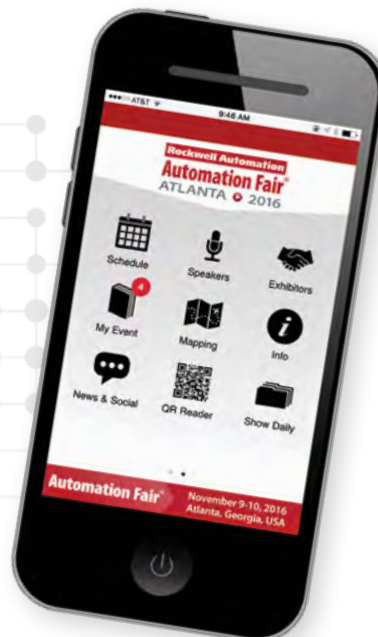
## THURSDAY, NOVEMBER 10

	Exhibit Hall <i>See pages 8-23 for more details.</i>	Forums <i>See pages 25-33 for more details.</i>	Hands-on Labs <i>See pages 34-35 for more details.</i>	Technical Sessions <i>See pages 36-43 for more details.</i>
8:00 a.m.	8:00 a.m. – 4:00 p.m.  <i>See pages 22-23 for the full exhibitor list and map.</i>		8:00 – 9:30 a.m. <b>Hands-on Labs Session 1</b>	8:00 – 9:00 a.m. T01, T08, T15, T22, T29, T36, T43, T50, T57, T64, T73, T80, T87, T94
8:30 a.m.				
9:00 a.m.		9:00 – 11:30 a.m. <b>Chemical Global Machine &amp; Equipment Builders (OEMs) Power &amp; Energy Management</b>		9:00 – 10:00 a.m. T02, T09, T16, T23, T30, T37, T44, T51, T58, T65, T74, T81, T88, T95
9:30 a.m.				
10:00 a.m.			10:00 – 11:30 a.m. <b>Hands-on Labs Session 2</b>	10:00 – 11:00 a.m. T03, T10, T17, T24, T31, T38, T45, T52, T59, T66, T75, T82, T89
10:30 a.m.				
11:00 a.m.				11:00 a.m. – 12:00 p.m. T04, T11, T18, T25, T32, T39, T46, T53, T60, T67, T76, T83, T90
11:30 a.m.				
12:00 p.m.				
12:30 p.m.			12:30 – 2:00 p.m. <b>Hands-on Labs Session 3</b>	
1:00 p.m.				1:00 – 2:00 p.m. T05, T12, T19, T26, T33, T40, T47, T54, T61, T68, T77, T84, T91
1:30 p.m.				
2:00 p.m.				2:00 – 3:00 p.m. T06, T13, T20, T27, T34, T41, T48, T55, T62, T71, T78, T85, T92
2:30 p.m.			2:30 – 4:00 p.m. <b>Hands-on Labs Session 4</b>	
3:00 p.m.				3:00 – 4:00 p.m. T07, T14, T21, T28, T35, T42, T49, T56, T63, T72, T79, T86, T93
3:30 p.m.				

## AUTOMATION FAIR® EVENT MOBILE APP

Download the ROKEvents mobile app and make the most of your time at the 2016 Automation Fair® event.

- Register to attend sessions
- Create your own personal agenda of sessions and exhibitors you must visit
- Network with other attendees
- Stay up-to-date on the latest event news





## ATLANTA CITY INFORMATION

The Georgia World Congress Center information desks will be staffed the duration of the event and can provide general information services inclusive of recommendations for dining and things to see and do in Atlanta. They are also stocked with maps and city guides.

The Atlanta City Information Booth is located in the main lobby on level 4 between Buildings A & B.

## CHARGING LOUNGES AND LOCKERS

Charging lounges and lockers are available in The Commons and the Exhibit Floor for your convenience.

## COAT AND LUGGAGE CHECK

Located in the pre-function space of Building B, headed towards Building C.

### Hours of Operation:

Wednesday, November 9: 6:30 a.m. – 6:30 p.m.

Thursday, November 10: 6:30 a.m. – 5:00 p.m.

**Charge:** \$3 per item

Coat and luggage check is cash only. ATMs are available in the Georgia World Congress Center.

*All checked items are subject to security inspection. You must have your ticket and/or proper identification to claim your item(s).*

## DISTRIBUTOR MEET AND GREET TABLES

Located on level 4, in the entrance lobby near the main registration area.

## EMERGENCY/MEDICAL/SECURITY

For all emergencies, please contact the Georgia World Congress Center Police/Security Communications Center. The number **(4911)** can be dialed directly from a red courtesy phone located conveniently through the facility.

If using a cell phone, dial **404-223-4911**.

## EVENT AND REGISTRATION AREA HOURS

The registration area is located in the main lobby on level 4 between Buildings A & B.

### Wednesday, November 9

Event Hours: 8:00 a.m. – 5:30 p.m.

Registration Area Hours: 6:30 a.m. – 5:30 p.m.

### Thursday, November 10

Event Hours: 8:00 a.m. – 4:00 p.m.

Registration Area Hours: 7:00 a.m. – 4:00 p.m.

## EVENT MOBILE APP: ROKEVENTS

Download the **ROKEvents** mobile app and make the most of your days at the Automation Fair® event. With the app, you can register to attend sessions, create your own personal agenda of which exhibitors to visit, network with other attendees, take session and event surveys, and stay up-to-date with the latest event news.

Please note, your username and password is what you created when you registered to attend the event.

**Questions?** Visit the Mobile App Help Desk, located in the Information Desk in The Commons and in the main lobby on level 4 between Buildings A & B.

## FIRST AID

First Aid is available during event hours in the First Aid Room, located in The Commons Area on level 1 of Building B and also in room B410.

## HOTEL SHUTTLE BUS AND LOCAL TRANSPORTATION INFORMATION

There will be shuttles running every 20-30 minutes between the Georgia World Congress Center, Atlanta Hilton, Hyatt Regency Atlanta, Marriott Marquis Atlanta, Embassy Suites, and Hyatt House.

Each shuttle will have identification signs on the front window indicating it is an Automation Fair® event shuttle.

Shuttles will pick up and drop off at the front of the Georgia World Congress Center, just past the Building B entrance on Andrew Young International Boulevard.

### Hours of Operation:

Monday, November 7:

6:30 a.m. – 10:00 a.m. (every 30 minutes)

3:00 p.m. – 8:00 p.m. (every 30 minutes)

Tuesday, November 8:

6:00 a.m. – 10:00 a.m. (every 20 minutes)

2:00 p.m. – 7:00 p.m. (every 20-30 minutes)

Wednesday, November 9:

6:00 a.m. – 10:00 a.m. (every 20 minutes)

3:00 p.m. – 7:00 p.m. (every 20-30 minutes)

Thursday, November 10:

6:00 a.m. – 10:00 a.m. (every 20 minutes)

2:00 p.m. – 8:00 p.m. (every 20-30 minutes)

**MARTA (Metropolitan Atlanta Rapid Transit Authority)** also has stops conveniently located to the Georgia World Congress Center. For more information please visit: <http://www.itsmarta.com/>.



## INFORMATION BOOTH

If you have any questions during the event, please stop by the Information Booth located in The Commons and also in the main lobby on level 4 between Buildings A & B.

Rockwell Automation hosts wearing red staff shirts will also be able to help with any questions.

## INTERNET ACCESS

Complimentary wireless internet is available to attendees, brought to you by Rockwell Automation.

### How to Connect:

SSID: AF2016

Password: rockwell

## LUNCH

Complimentary lunch will be served between 11:00 a.m. and 2:00 p.m. on Wednesday and Thursday. The lunch area is accessible through the exhibit hall.

## PARKING

Parking is available in multiple lots at the Georgia World Congress Center, with the Red Deck parking area being closest to Building B.

**Rates:** \$10-20 per day, with no in-and-out privileges.

Parking is NOT validated by Rockwell Automation for the event.

For more information, including the Georgia World Congress Center (GWCC) parking map, guide, and additional info, please visit <http://www.gwcc.com/directions/parking/>.

## PROFESSIONAL DEVELOPMENT HOUR CREDITS

Attendees can earn Professional Development Hour (PDH) credits for all educational classes attended. This program includes hands-on labs, technical sessions and industry forums.

After completion of any qualifying session, attendees will receive an email after the 2016 Automation Fair® event that contains a log-in code to access their official transcript which can be used to submit for Continuing Education Unit credits. Attendees will also have the ability to print an official certificate of completion to include in their company records.

## SESSION CHANGE KIOSKS

Use the session change kiosks to update your schedule, located outside of the session rooms on levels 2, 3, and 4 of Building B.

Please note, you may also update your session schedule through the ROKEvents mobile app! Simply download the app from your app store, select "Automation Fair 2016" and log in with the username and password you created when you registered to attend.

## SESSION AND EVENT SURVEYS

Your feedback is welcome and encouraged! Please take the time to evaluate the event and the individual sessions you attend by completing the surveys in the event's mobile app – simply download ROKEvents app from your app store.

## PLAN YOUR IDEAL DAYS

Use the **ROKEvents** mobile app to filter sessions and exhibitors by industry.

Or use the Ideal Days key to find exhibitors and sessions specific to your industry needs throughout this guide.

<b>AM</b> Automotive	<b>OG</b> Oil & Gas
<b>CH</b> Chemical	<b>PE</b> Power & Energy
<b>FB</b> Food & Beverage	<b>PP</b> Pulp & Paper
<b>LS</b> Life Sciences	<b>TCE</b> The Connected Enterprise
<b>OEM</b> Global Machine and Equipment Builders	<b>TR</b> Tire
	<b>WW</b> Water Wastewater





# PLAN YOUR IDEAL DAYS AT THE 2016 AUTOMATION FAIR® EVENT

SEARCH EXHIBITORS AND SESSIONS BY  
THE FOLLOWING INDUSTRIES:

<b>AM</b>	Automotive	<b>OG</b>	Oil & Gas
<b>CH</b>	Chemical	<b>PE</b>	Power & Energy
<b>FB</b>	Food & Beverage	<b>PP</b>	Pulp & Paper
<b>LS</b>	Life Sciences	<b>TCE</b>	The Connected Enterprise
<b>OEM</b>	Global Machine and Equipment Builders	<b>TR</b>	Tire
		<b>WW</b>	Water Wastewater



[www.automationfair.com](http://www.automationfair.com)

**INDUSTRY FORUMS • HANDS-ON LABS • TECHNICAL SESSIONS • EXHIBITS**

## GO MOBILE! PLAN YOUR DAY.

**Download ROKEvents mobile app.  
Search, schedule and register all in one spot!**

- Features accessible on desktop and mobile device
- Filter through schedule and exhibitors for efficient, easy searches by clicking search or a filter tab
- Create a custom schedule of sessions and exhibitors that syncs between your desktop and mobile app
- Designed for convenience you can access anywhere, any time



## VISIT THESE ROCKWELL AUTOMATION BOOTHS IN THE COMMONS AREA, LOCATED AT THE ENTRANCE OF THE EXHIBIT HALL.

### GLOBAL CONNECTIONS

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

Stop by the Latin America area to take part in the Automation Fair® 2016 event Latin America Technology Tours. These tours are offered in both Spanish and Portuguese.

These tours have a limited space for attendees. Please sign up for the tours at the Global Connections – Latin America area in The Commons.



### HISTORY OF INNOVATION BOOTH

From our beginning in 1903, Rockwell Automation represents a rich history of innovation. View milestones in our evolution along with original products, including a 1912 Allen-Bradley® electric crane artifacts, controller and 1970s programmable logic controller.

Tweet your photo in the History of Innovation booth using the hashtag #iROKHistory for a chance to win a historic Allen-Bradley ornament.

#### BOOTH HIGHLIGHTS

- Milestones in Allen-Bradley / Rockwell Automation history
- View original artifacts, products and photos
  - 1912 Allen-Bradley® electric crane controller
  - 1970s programmable logic controller
  - 45 years of innovation with the CENTERLINE® 2100 Motor Control Centers



### MERCHANDISE

Visit the Merchandise Store in The Commons on level 1 for Automation Fair® event and Rockwell Automation merchandise.



### OUR BEST KEPT SECRET

Do you want the inside scoop on what can make your business more successful?

Unlock some of the best kept secrets of how we do this every day – and why it's more than just our products, services or solutions that make us your clear choice as a partner.

#### BOOTH HIGHLIGHTS

- Mobile-enabled, interactive platform: explore our Best Kept Secrets
- Streaming videos: check out our industry-leading perspectives on how culture can impact your business



### 2017 AUTOMATION FAIR® EVENT

Start planning for the 2017 Automation Fair® event! The Houston Convention and Visitors Bureau will be in The Commons on level 1 to answer any questions and provide helpful planning information.

VISITHOUSTON



## ESSENTIAL COMPONENTS

### BOOTH 607

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

#### Complete Your Architecture

Control systems are susceptible to down-time from a wide range of issues. Allen-Bradley components are essential to solving common problems associated with your critical control applications and, in doing so, are key to enhancing the performance of your Integrated Architecture.

#### Line-to-Load Power Solutions

Rockwell Automation provides a complete power control solution plus the expertise to help you design innovative solutions for the global marketplace.

#### Power and Energy Management

We offer a number of solutions to help you manage your energy resources in a way that brings meaningful value to your business – by lowering production costs and optimizing profits:

- Power monitoring
- Power and energy management solutions
- Power quality and detection solutions

### BOOTH HIGHLIGHTS

- ArmorBlock™ IP67 IO-Link Master
- 48CR Code Reader
- ClearMultiprint™ Terminal Block Thermal Printer
- 140G Current-limiting Molded Case Circuit Breakers
- Enclosed Starters with Snap-together Wiring Technology

## INDUSTRIAL IP ADVANTAGE

### BOOTH 1641

As manufacturing operations become increasingly connected, it is more critical for IT and controls engineers to expand their skills and work together to build secure, robust networks.

The Industrial IP Advantage – a coalition formed by Cisco, Panduit and Rockwell Automation – offers an interactive, virtual training program that guides participants through common manufacturing scenarios. Both IT and OT engineers will learn design skills and industry best practices needed to help establish a robust, secure and future-ready IoT network. This multi-part eLearning program teaches practical guidance using reference architectures on topics such as IP addressing, network topologies, switching and routing infrastructure, physical cabling and wireless, virtualization and cloud technologies, security measures, and more.

- Course 1: Designing for the Cell/Area Zone (part 1)
- Course 2: Designing for the Cell/Area Zone (part 2)
- Course 3: The Industrial Zone
- Course 4: IT/OT Integration

### BOOTH HIGHLIGHTS

- Talk to network experts from Cisco, Panduit and Rockwell Automation
- Register for eLearning – using the free code for event attendees
- Ask the Expert – bring your toughest questions and have a one-on-one discussion with networks and security experts
- Test your knowledge – play an interactive trivia game to see how your skills rank against your peers
- Virtual Reality – take a walk on the virtual plant floor and learn some fun facts along the way





## INFORMATION SOLUTIONS

### BOOTH 1041

Your automation systems generate volumes of data every day. The challenge is how you manage the data to gain insight into your production processes in order to improve yields, reduce variability and comply with regulatory requirements.

Experience how Rockwell Automation has expanded our offerings for Information Solutions and services that can help your business achieve desired productivity targets, speed time to market, and reduce enterprise risk.

## INNOVATION ZONE

### BOOTH 1355

In the next decade, digital technologies will allow industrial companies to seamlessly integrate the entire lifecycle of an automation system, unlocking new value throughout the enterprise.

In the Innovation Zone, Rockwell Automation will showcase digital technologies on the horizon, some of which are more than two years away.

Catch a glimpse into the future and learn about investments Rockwell Automation and our partners are making in digital design, collaboration, analytics, and mobility.

### BOOTH HIGHLIGHTS

- See how a Connected Enterprise is powered by information throughout your operation
- Discover Analytics that scale for smart devices and machines, through systems and enterprises
- Let Scalable MES help reduce your barrier to entry, bringing smart manufacturing to all
- Learn more about MES with FactoryTalk ProductionCentre, and PharmaSuite™, AutoSuite™ and CPGSuite™ which deliver pre-configured, industry-specific workflows and libraries for Operations Management

### BOOTH HIGHLIGHTS

- Integrated Development Environment updates in Studio 5000
- Simplified access to information using Application Content Information Data Types in Studio 5000 Application Code Manager
- Collaborative engineering with data exchange between Studio 5000, E-CAD and M-CAD
- Virtual design with Studio 5000 Logix Emulate
- CompactLogix 5480 futures
- Secure communications and management
- Scalable analytics
- Preview of future functionality in TeamONE App



## INTEGRATED ARCHITECTURE

### BOOTH 1647

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

Experience the delivered value of a high performance architecture with our new control and information products as part of real machines and in digital demos. Discover the power of Logix technology and how it integrates discrete, motor, motion, safety and process control into one common design environment with one network and one control engine. You'll see how our products can be used to develop smart machines and support smart manufacturing.

Also, take the opportunity to talk to the subject matter experts on security, automation design productivity and motion control.

### BOOTH HIGHLIGHTS

- Explore automation design productivity with Studio 5000 integrated design environment
- Interact with machine and operation-level visualization products
- Learn about new networks and security products and see how Rockwell Automation and its strategic partners are delivering a secure network infrastructure
- Watch the latest innovation in intelligent track systems at the MagneMotion demo

## INTELLIGENT MOTOR CONTROL

### BOOTH 1723

Intelligent devices make up smart connected machines. And with the information that you receive from Intelligent Motor Control devices allows you to make smart and informed decisions.

Learn how the information from our portfolio of intelligent drives and motor control centers can position you to make better operating decisions – and those decisions faster.

Don't miss this opportunity to talk to the subject matter experts and learn about the latest features and capabilities of low and medium voltage portfolios of PowerFlex drives and CENTERLINE motor control centers.

### BOOTH HIGHLIGHTS

- See the newest PowerFlex drives designed to provide solutions for harmonic mitigation, regeneration and common bus drive systems
- Experience our new innovative app platform and how you can access drive information that can lead to improved productivity
- See how machine builder libraries streamline development of your motor control applications
- Discover the value in Remote Monitoring services for your high power drives
- Learn how the entire power control portfolio uses EtherNet/IP to connect you to your operations



## PROCESS SOLUTIONS

### BOOTH 541

Industrial producers must regularly identify new production efficiencies, such as digitization, to remain competitive within the marketplace. In an effort to capitalize on promising technology, many producers try to force a batch or process control application to fit a technology, instead of making new technology work to the benefit of the application. Enhancements to the Rockwell Automation modern process technologies, combined with our domain expertise, bring new agility to producers so they can better adapt digitally to the needs of their evolving process.

In the Process Solutions booth, you'll discover the latest enhancements in process control technologies, and have the opportunity to learn about our industry expertise and global support capabilities. We offer the PlantPAx modern distributed control system for plant-wide control and lower total cost of ownership; safety instrumented systems for critical control applications; scalable modern batch control for your information-enabled enterprise; and model predictive control capabilities for process optimization and performance-driven manufacturing.

### BOOTH HIGHLIGHTS

- Experience hands-on demonstrations of the PlantPAx modern DCS 4.0 system release
- Preview the FactoryTalk Batch v13 software release and discover our modern batch portfolio with mobile interfaces for a modern workforce
- Find out about our next generation Trusted SIS, now with 4x faster logic controller and increased memory, as well as our entire Process Safety portfolio
- Discover the newly released PlantPAx MPC, as well as the latest features of Pavilion8 Advanced Process Control, including Step Test Assistant for automated plant testing
- Learn about Newlands Systems craft brewing solution in the Production Showcase booth, next to the Process Solutions booth

CH FB LS OEM OG PE PP TC TR WW

## PRODUCT SELECTION, CONFIGURATION AND QUOTING

### BOOTH 1051

#### Integrated Architecture® System Tools

Discover how this system helps build a business in which information flows across your organization. Help increase productivity and save time, while utilizing our technology.

#### Integrated Architecture® Builder

Configure your Logix-based automation systems, select hardware and generate bills of material for many applications.

#### ProposalWorks™

Acquire selection assistance and information on a broad range of Allen-Bradley® and Encompass™ Partner products and services. A simple product-selection interface helps you determine the exact catalog number for the item you need with detailed Product Lifecycle status.

#### Compatibility and Download Center (PCDC)

Find product-related downloads, including firmware, release notes, associated software, drivers, tools and utilities.

#### User Experience – New for 2016!

Have a stronger voice in helping design the tools you need for your job! Provide direct input about how we can improve your experience with product tools and mobile applications. Participate in interviews, online surveys or usability tests. Receive a FREE GIFT and enter a drawing to win a grand prize!

### BOOTH HIGHLIGHTS

- Get a sneak peek and provide feedback on a NEW website concept designed to improve and simplify your product selection process and digital customer experience
- Talk with the teams who design Integrated Architecture Builder (IAB), ProposalWorks, ROK Catalog App, IAB mobile app, Migrations mobile app and more

AM OEM OG PE TR





## SAFETY SOLUTIONS

### BOOTH 841

Looking to improve productivity while helping reduce injuries and costs in process, machinery and electrical safety applications? Manufacturing and industrial organizations are using the vast amount of production data available in The Connected Enterprise to improve productivity, quality and efficiencies. By capturing and contextualizing data from your safety systems, you can better understand risks, enhance safety efforts, reduce safety-related downtime and streamline compliance efforts. Let our SMEs help you see the BIG picture and learn how you can implement the broadest safety technology offering in the industry today.

## SMART MANUFACTURING... ARE YOU READY?

### BOOTH 304

Learn how to achieve Smart Manufacturing by embracing new technology. Let us show you the path from your legacy automation control and information systems to contemporary solutions using current technology.

Experience the ease-of-use of our hardware and software migration tools designed to make migration and conversion a natural next step in moving toward a more connected enterprise.

Hear about how others have adopted our products, used our tools and relied on our expertise to improve productivity and reduce operating costs. Modernizing their systems resulted in advancements in performance, flexibility and security while gaining a competitive edge.

***Are you ready?***

### BOOTH HIGHLIGHTS

- The Safety Lifecycle – identify the steps required to assess and mitigate machinery risks
- Safety Tools Suite – interact with our newest version of safety tools using our touchscreen or individual work stations
- The Connected Enterprise and Safety – demonstrate how safety data can help you understand identify risks, enhance safety and drive productivity
- Production Showcase – located next to the Safety Solutions booth, you will find this area of machines that demonstrate Integrated Architecture, as it relates to Process and Safety

### BOOTH HIGHLIGHTS

- Learn how others have modernized and improved the way their business is done; resulting in more
- Talk to industry experts who can walk you through the process of employing our tools, utilities and services; all designed to help you achieve more
- See how new technology can help make the transition easier allowing you to improve productivity, gain flexibility and reduce downtime; helping to gain more





## SOLUTIONS & SERVICES

### BOOTH 425

Rockwell Automation understands that improving productivity while reducing costs is key to achieving your goals. Visit the Solutions and Services booth to talk directly with any of our professionals about your unique challenges. Our team's global experience and industry domain expertise enable us to design and deliver tailored solutions to help you reach your vision of The Connected Enterprise.

Find out more about our industry-specific solutions and services, and how we can help you minimize your project risk, increase efficiency and drive standardization throughout your operations.

#### BOOTH HIGHLIGHTS

- Remote Monitoring and Cloud solutions
- Network and Security assessments and design
- Pre-engineered network solutions including the Industrial Data Center
- Industrial Network Certification classes
- Asset Management and Reliability services
- Pre-engineered drives systems
- Solutions for the following industries:
  - Chemical
  - Food & Beverage
  - Life Sciences
  - Metals
  - Mining
  - Oil & Gas
  - Pulp & Paper

AM CH FB LS OEM OG PE PP TCE TR WW

## THE CONNECTED ENTERPRISE PAVILION

### BOOTH 1341

The Connected Enterprise brings major advances in information technology and operations technology to life in manufacturing and industrial operations, helping to drive new ways to innovate and operate.

The Connected Enterprise is a highly connected, knowledge-enabled industrial enterprise where devices and processes are connected, monitored and optimized to enhance productivity, safety and security, sustainability and economic performance.

Through The Connected Enterprise, Rockwell Automation helps organizations capitalize on the promise of an ever more connected world in the form of higher manufacturing velocity, more agile response to changing conditions, reduced costs and lowered risk.

We accomplish this by leveraging advancements in technology, where smart objects and machines interact and communicate with one another, configure themselves, analyze data, take action by predicting and preventing failures and adapting to changes within the process.

Many companies are already seeing the business values. A cogent proof point is our own journey to a Connected Enterprise. We've seen success in lowered inventory, increased on-time delivery, improved on-time-to-want, and overall better quality.

#### BOOTH HIGHLIGHTS

##### Journey to a Connected Enterprise

- See our Operations Decision Center – experience a centralized, demand based manufacturing simulation
- Industry Solutions – hear how others have achieved real results
- Operations Chalk-Talk – speak with an operations expert to map out your own journey
- Scalable Analytics Overview – learn how data and analytics can help drive business outcomes for your organization

AM CH FB LS OEM OG PE PP TCE TR WW



## THINMANAGER WITH RELEVANCE MOBILITY

BOOTH 1741

Rockwell Automation's ThinManager® technology allows centralized configuration and management of deliverable content to any combination of user, device and location. Whether managing PCs, thin clients or mobile devices, ThinManager and Relevance® allow content to be securely delivered based on a person's role and/or the location of their device.

### BOOTH HIGHLIGHTS

- Increased productivity with less downtime
- Customized visualization of content from multiple sources to a single device
- Increased security with no data storage on end-user devices
- Location-based mobility that delivers the right content to the right person in the right place

**25 YEARS**

**Rockwell Automation**  
**Automation Fair®**

# GET YOUR GEAR!

**Visit the Automation Fair®  
Shop for a great selection of  
clothing and specialty items!**

Images of promotional items: a dark blue jacket, a black polo shirt, a baseball cap, and a box of Titleist golf balls.

## DRIVING SUCCESS THROUGH COLLABORATION

Established almost ten years ago, the framework of these well-managed PartnerNetwork relationships is accessible to you when you choose Rockwell Automation as your supplier. The PartnerNetwork is comprised of best in class companies, including authorized Allen-Bradley distributors, system integrators, OEMs, strategic alliances, Encompass reference products and licensed developers – with support that is local, regional and global in nature.

Customers who have utilized the PartnerNetwork to provide their complete automation solutions have stated consistently that they experience three core values: simplify, collaborate, innovate. The foundation of the PartnerNetwork companies is a commitment to drive the best value for you, our mutual customers, by streamlining your supply chain and simplifying your implementation to drive an increased value to your organization.

**Rockwell Automation  
PartnerNetwork™**

*Visit more than 150 partners from the PartnerNetwork at the Automation Fair® event and come see the latest products and solutions that they will be displaying.*

## 20+ Year Exhibitors

We are excited to highlight twenty-one PartnerNetwork™ members who have loyally committed to Rockwell Automation by exhibiting at the Automation Fair® event for 20 years or more. This is another example of how our mutual commitment to customers is based on strong relationships core to our philosophy and how through our collaborative efforts we bring you innovative, comprehensive solutions that deliver real value.



**Advanced Micro  
Controls Inc. (AMCI)**

**Belden**

**Bonitron**

**Data-Linc Group**

**Endress+Hauser**

**ESTeem Wireless Modems**

**Festo Corporation**

**Fluke Corp.**

**Hardy Process Solutions**

**Helm Instrument Co. Inc.**

**Mettler-Toledo, Inc.**

**Molex**

**Numatics, Inc.**

**Phoenix Digital Corporation**

**Post Glover Resistors**

**ProSoft Technology**

**RACO Manufacturing  
& Engineering Co.**

**Rice Lake Weighing Systems**

**SMC Corporation of America**

**Spectrum Controls Inc.**

**Ultra Electronics**







## Ideal Days Key:

<b>AM</b> Automotive	<b>OG</b> Oil & Gas
<b>CH</b> Chemical	<b>PE</b> Power & Energy
<b>FB</b> Food & Beverage	<b>PP</b> Pulp & Paper
<b>LS</b> Life Sciences	<b>TCE</b> The Connected Enterprise
<b>OEM</b> Global Machine and Equipment Builders	<b>TR</b> Tire
	<b>WW</b> Water Wastewater

■ Encompass Partner 
 ■ OEM Program Partner 
 ■ Solution Partner 
 ■ Strategic Alliance Partner

### Advanced Energy

Booth 1325  
www.aei.com  
**TCE**

### Advanced Micro Controls Inc. (AMCI)

Booth 1625  
www.amci.com  
**AM FB LS OEM PE PP TCE TR**

### Ametek

Booth 1360  
www.ameetek.com  
**AM OEM OG PE PP TCE TR**

### ANDRITZ Ritz GmbH

Booth 218  
www.andritz.com/oi-andritz-ritz-gmbh  
**OEM OG WW**

### Aparian, Inc.

Booth 2031  
www.aparian.com  
**OEM OG PE PP TCE WW**

### Apex Dynamics Inc.

Booth 1947  
www.apexdynamicsusa.com  
**FB OEM**

### Applied Control Engineering Inc

Booth 553  
www.ace-net.com  
**CH LS OG**

### AT&T

Booth 729  
www.att.com/iot  
**OEM OG PE TCE WW**

### Autodesk

Booth 1941  
www.autodesk.com  
**AM PE TCE TR**

### Badger Meter

Booth 759  
www.badgermeter.com  
**AM CH FB LS OG PE TCE TR WW**

### Barry-Wehmiller Design Group

Booth 828  
www.bwdesigngroup.com  
**FB LS TCE**

### Belden

Booth 211  
www.belden.com  
**AM OEM OG PE TCE TR**

### Bihl+Wiedemann GmbH

Booth 1260  
www.bihl-wiedemann.com/englisch/index.html  
**OEM PE TCE**

### Block USA, Inc.

Booth 1960  
www.blockusa.com  
**OEM PE**

### Bonitron

Booth 2033  
www.bonitron.com  
**OEM OG PE PP TCE WW**

### Brady Corporation

Booth 225  
www.bradycorp.com  
**CH OEM OG PE TCE**

### Burkert Fluid Control Systems

Booth 341  
www.burkert.com  
**CH FB LS OEM TCE WW**

### Bussmann by Eaton

Booth 324  
www.cooperbussmann.com/rockwell  
**OEM PE WW**

### Cape Software Inc.

Booth 858  
www.capesoftware.com  
**CH FB OG TCE**

### Central States Industrial (CSI)

Booth 240  
www.csdesigns.com  
**FB LS OEM**

### Cisco Systems

Booth 1331  
www.cisco.com  
**AM FB LS OG TCE TR WW**

### Commerce Controls, Inc.

Booth 1866  
www.commercecontrols.com  
**AM WW**

### Concept Systems Inc.

Booth 1257  
www.conceptsystemsinc.com  
**FB PP**

### Control Station Inc.

Booth 1264  
www.controlstation.com  
**CH OG TCE**

### Curtiss-Wright/Exlar® Actuation Solutions

Booth 1863  
www.exlar.com  
**FB OEM OG PE PP TCE**

### Cybertrol Engineering

Booth 246  
www.cybertrol.com  
**FB LS OG**

### Data-Linc Group

Booth 250  
www.data-linc.com  
**OEM OG PE TCE WW**

### DENSO Robotics

Booth 1261  
www.densorobotics.com  
**FB LS OEM TCE WW**

### DESTACO

Booth 1961  
www.destaco.com  
**AM FB LS OEM**

### Det-Tronics

Booth 1864  
www.det-tronics.com  
**AM OG TCE TR**

### Dialight

Booth 1158  
www.dialight.com  
**OG PE PP TCE**

### Elm Electrical, Inc

Booth 1566  
www.elmelec.com  
**FB PE WW**

### Elwood Corporation – High Performance Motors Group

Booth 1761  
www.elwood.com/motors.html  
**AM OEM OG TR**

### Endress+Hauser

Booth 441  
www.us.endress.com  
**CH FB LS OEM OG PE PP TCE WW**

### Energy Control Technologies

Booth 208  
www.energycontroltechnologies.com  
**CH OEM OG PE**

### EPLAN Software & Services

Booth 1915  
www.eplan.us  
**AM FB OG PE TCE TR**

### eRPortal Software Group, LLC

Booth 1356  
www.erportalsoftware.com  
**PE TCE WW**

### ESTEem Wireless Modems

Booth 928  
www.esteem.com  
**OEM OG PE TCE WW**

### FANUC

Booth 1661  
www.fanuccncamerica.com  
**AM OEM TCE TR**

### Festo Corporation

Booth 1249  
www.festo-usa.com  
**AM OEM TCE TR**

### FLIR Systems

Booth 1231  
www.flir.com  
**AM FB OEM OG PE TCE TR**

### Fluke Corp.

Booth 519  
www.fluke.com  
**AM CH FB LS OEM OG PE TCE TR**

### General Cable

Booth 815  
www.generalcable.com  
**OEM OG PE TCE**

### Grace Engineered Products, Inc.

Booth 829/830  
www.grace-eng.com  
**OEM PE**

### Hammond Power Solutions, Inc.

Booth 1515  
www.hammondpowersolutions.com  
**OEM OG PE WW**

### Hardy Process Solutions

Booth 347  
www.hardysolutions.com  
**CH FB OG TCE**

### Harmonic Drive, LLC

Booth 1326  
www.harmonicdrive.com  
**OEM**

### Helm Instrument Co. Inc.

Booth 1521  
www.helminstrument.com  
**AM FB LS OEM TCE TR**



■ **Hermery Opto Electronics, Inc.**  
Booth 1314  
www.hermeryopto.com  
**OEM TCE**

■ **HMS Industrial Networks AB**  
Booth 1527  
www.hms-networks.com  
**AM OEM OG PE TCE TR WW**

■ **Hubbell Electrical Systems**  
Booth 653  
www.hubbell.com  
**AM CH OEM OG PE TR WW**

■ **Imperx, Inc.**  
Booth 410  
www.imperx.com  
**FB OEM TCE**

■ **Interstates Control Systems Inc.**  
Booth 1366  
www.interstates.com  
**CH FB TCE**

■ **Itoh Denki USA Inc.**  
Booth 417  
www.itohdenki.com  
**AM FB OEM TCE TR**

■ **Kepware Technologies**  
Booth 1031  
www.kepware.com  
**OG PE TCE**

■ **KTR Corporation**  
Booth 1464  
www.ktr.com  
**OEM**

■ **Laird**  
Booth 753  
www.lairdtech.com  
**OEM OG TCE**

■ **Leviton Mfg. Co.**  
Booth 859  
www.leviton.com  
**FB LS OEM OG PE TCE WW**

■ **LinMot USA, Inc.**  
Booth 1841  
www.linmot.com  
**FB OEM TCE**

■ **LinTech**  
Booth 619  
www.lintechmotion.com  
**OEM**

■ **Littelfuse Inc.**  
Booth 920  
www.littelfuse.com  
**AM FB OEM OG PE TCE TR WW**

■ **Marathon Motors**  
Booth 1724  
www.marathonelectric.com  
**AM OEM OG PE TR**

■ **MathWorks**  
Booth 1462  
www.mathworks.com  
**PE TCE**

■ **Matrix Technologies Inc.**  
Booth 2055  
www.matrixti.com  
**CH FB OG**

■ **MECCO**  
Booth 820  
www.mecco.com  
**AM OEM OG TCE TR**

■ **Melfi Technologies Inc.**  
Booth 1219  
www.melfitechnologies.com  
**FB**

■ **Mersen**  
Booth 721  
www.mersen.com  
**OEM OG PE**

■ **Mesta Electronics, Inc.**  
Booth 2017  
www.mesta.com  
**OEM OG PE TCE WW**

■ **Metso Flow Control Inc.**  
Booth 455  
www.metso.com  
**CH FB LS OG PE**

■ **Mettler-Toledo LLC**  
Booth 652  
www.mt.com  
**CH FB LS TCE**

■ **Molex**  
Booth 1814  
www.woodhead.com  
**AM CH FB OEM OG PE TCE TR WW**

■ **Motorola Solutions**  
Booth 241  
www.motorola.com  
**AM TCE TR**

■ **MTE Corporation**  
Booth 325  
www.mtecorp.com  
**OEM OG PE WW**

■ **MTS Systems Corp. Sensors Division**  
Booth 231  
www.mts.com  
**CH FB OEM OG PE PP TCE**

■ **MYNAH Technologies LLC**  
Booth 554  
www.mynah.com  
**CH OG PE TCE**

■ **Nidec - Shimpo Corporation**  
Booth 2021  
www.nidec-shimpo.com  
**AM OEM TR WW**

■ **NK Technologies**  
Booth 1221  
www.nktechnologies.com  
**OEM OG PE WW**

■ **Numatics Inc.**  
Booth 217  
www.numatics.com  
**AM FB LS OEM TCE TR**

■ **Outbound Technologies Inc.**  
Booth 230  
www.outboundtech.com  
**AM FB LS**

■ **Owl Computing Technologies, Inc.**  
Booth 1324  
www.owlcti.com  
**OEM OG PE TCE WW**

■ **Panasonic Systems Communications Corporation**  
Booth 1165  
www.panasonic.com/toughbook/U1  
**AM FB OG TCE TR**

■ **Panduit Corp.**  
Booth 1241  
www.panduit.com  
**AM FB LS OEM OG PE TCE TR**

■ **Parker Pneumatic Division**  
Booth 254  
www.parker.com/pneumatic  
**AM PE TCE**

■ **Pentair - Hoffmann**  
Booth 1615  
www.hoffmanonline.com  
**AM FB OEM OG PE TCE TR WW**

■ **Pepperl+Fuchs Inc.**  
Booth 718  
www.pepperl-fuchs.us/usa/en/43.htm  
**AM CH OEM OG PE TCE TR WW**

■ **Phase Motion Control S.p.A.**  
Booth 216  
www.phase.eu  
**OG**

■ **Phoenix Digital Corporation**  
Booth 1059  
www.phoenixdigitalcorp.com  
**OEM OG PE TCE WW**

■ **Point Eight Power Inc.**  
Booth 1125  
www.pointeightpower.com  
**OEM OG PE**

■ **Polytron Inc.**  
Booth 1215  
www.polytron.com  
**FB TCE**

■ **POSITAL FRABA Inc.**  
Booth 1861  
www.fraba.com  
**CH OEM OG TCE**

■ **Post Glover Resistors**  
Booth 1061  
www.postglover.com  
**AM LS OEM OG PE TR WW**





## Ideal Days Key:

<b>AM</b> Automotive	<b>OG</b> Oil & Gas
<b>CH</b> Chemical	<b>PE</b> Power & Energy
<b>FB</b> Food & Beverage	<b>PP</b> Pulp & Paper
<b>LS</b> Life Sciences	<b>TCE</b> The Connected Enterprise
<b>OEM</b> Global Machine and Equipment Builders	<b>TR</b> Tire
	<b>WW</b> Water Wastewater

■ Encompass Partner 
 ■ OEM Program Partner 
 ■ Solution Partner 
 ■ Strategic Alliance Partner

■ Powerohm Resistors –  
A Hubbell Company  
Booth 1365  
www.powerohm.com  
**AM OEM OG PE TR**

■ PREMIER Systems Integrators, Inc.  
Booth 1160  
www.premier-system.com  
**CH FB PP**

■ Prime Controls LP  
Booth 452  
www.prime-controls.com  
**FB OG WW**

■ Proensi  
Booth 248  
www.proensi.com.mx  
**FB OEM PP**

■ ProSoft Technology  
Booth 1015  
www.prosoft-technology.com  
**AM FB OEM OG PE TCE TR WW**

■ Prozess Technologie  
Booth 353  
www.prozesstech.com  
**CH FB LS TCE**

■ RACO Manufacturing & Engineering Co.  
Booth 330  
www.racoman.com  
**OG PE TCE WW**

■ Revere Control Systems Inc  
Booth 821  
www.reverecontrol.com  
**OG PE WW**

■ RF Ideas Inc.  
Booth 1465  
www.rfideas.com  
**AM FB TCE TR**

■ Rice Lake Weighing Systems  
Booth 331  
www.ricelake.com  
**TCE**

■ River Consulting LLC  
Booth 733  
www.riverconsulting.com  
**OG**

■ Ross Controls  
Booth 932  
www.rosscontrols.com

■ RoviSys Company  
Booth 555  
www.rovisys.com  
**CH FB LS TCE**

■ Roxtec Inc  
Booth 2041  
www.rovisys.com  
**AM OEM PE TR**

■ SAS  
Booth 224  
www.sas.com/en\_us/home.html  
**AM FB LS OEM TCE TR**

■ Schweitzer Engineering Laboratories Inc.  
Booth 914  
www.selinc.com  
**CH OEM OG PE TCE WW**

■ SeQent  
Booth 340  
www.seqent.com  
**AM FB TCE TR**

■ SMC Corporation  
Booth 853  
www.smcusa.com  
**AM FB LS OEM TCE TR**

■ Softing (OLDI)  
Booth 1953  
www.softing.us  
**AM LS OEM OG PE TCE TR**

■ SolidWorks Corp.  
Booth 1025  
www.solidworks.com  
**TCE**

■ Southwire Company  
Booth 1065  
www.southwire.com  
**OEM OG PE TCE WW**

■ Spectrum Controls Inc.  
Booth 407  
www.spectrumcontrols.com  
**AM OEM OG PE PP TCE TR WW**

■ Stahlin Non-Metallic Enclosures  
Booth 1131  
www.stahlin.com  
**CH FB OEM OG PE WW**

■ STÖBER Drives Inc.  
Booth 1631  
www.stober.com  
**FB OEM**

■ Stone Technologies Inc  
Booth 1159  
www.stonetek.com  
**FB LS**

■ Stratus Technologies  
Booth 1463  
www.stratus.com  
**LS OG PE TCE**

■ Symantec Corporation  
Booth 1363  
www.symantec.com  
**AM OEM OG PE TCE TR**

■ SyTech Inc.  
Booth 1258  
www.sytech.com  
**OG TCE WW**

■ TCI, LLC  
Booth 311  
www.transcoil.com  
**OEM OG PE PP TCE WW**

■ Teledyne DALSA  
Booth 1562  
www.teledynedalsa.com  
**AM FB OEM TCE TR**

■ Tempered Networks  
Booth 310  
www.temperednetworks.com  
**OEM OG PE TCE WW**

■ Tennessee Rand,  
A Lincoln Electric Company  
Booth 1164  
www.tennrand.com  
**AM OEM TR**

■ Tissue Machinery Company SpA  
Booth 1966  
www.tissuemachinerycompany.com  
**OEM TCE**

■ Tolomatic, Inc  
Booth 2049  
www.tolomatic.com  
**AM FB LS OEM TR**

■ Ultra Electronics  
Booth 1267  
www.ultra-nspi.com  
**OEM OG PE TCE WW**

■ UNITED CONVERTING  
Booth 214  
www.unitedconverting.com/en/  
**OEM PP**

■ Wachter Inc.  
Booth 1318  
www.wachter.com  
**AM FB TCE**

■ Weiss North America Inc  
Booth 1763  
www.weissna.com  
**AM OEM TCE TR**

■ Westlock Controls  
Booth 228  
www.westlockcontrols.com  
**OEM OG WW**

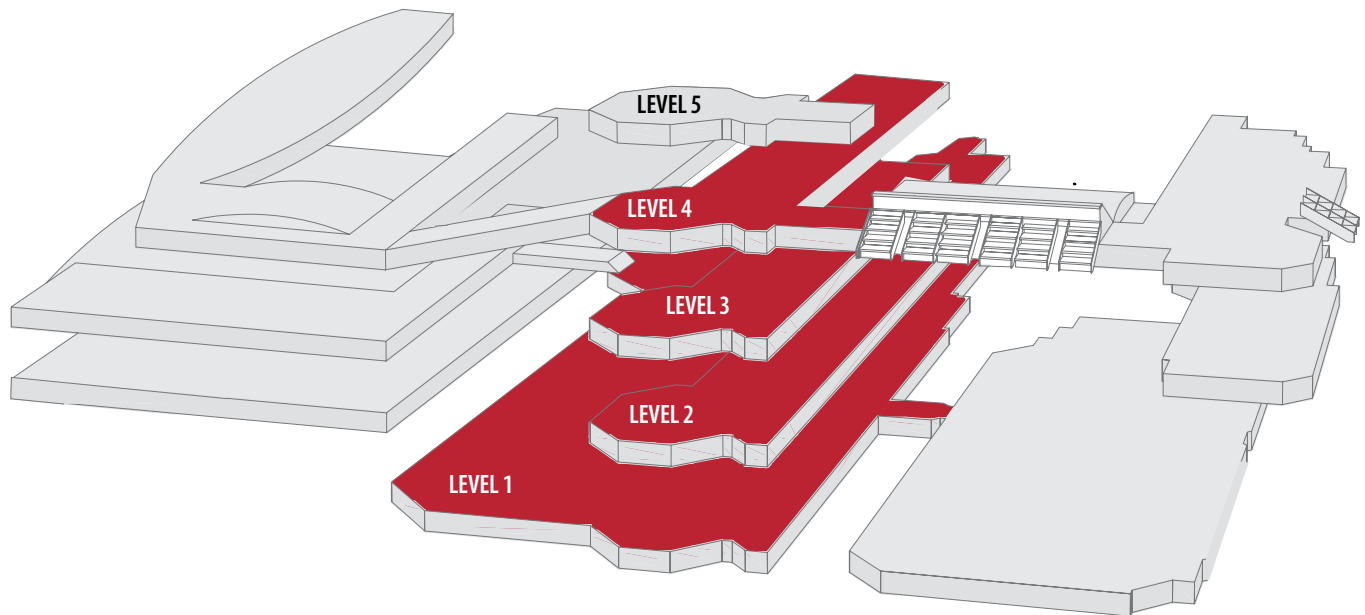
■ WIN-911 Software  
Booth 1967  
www.win911.com  
**FB OG TCE WW**

■ WITTENSTEIN, Inc.  
Booth 1316  
www.wittenstein-us.com  
**AM CH FB LS OEM OG PE TCE TR**

■ Zebra Technologies Corporation  
Booth 1860  
www.zebra.com  
**AM CH FB LS OEM OG PE TCE TR**

■ Zeppelin Systems USA Inc  
Booth 247  
www.zeppelinusa.com  
**FB TR**

## GEORGIA WORLD CONGRESS CENTER BUILDING B, LEVELS 1-4



### Level 4 – Main Lobby

- Registration Area
- Walkway to Omni Hotel at CNN Center
- Distributor Customer Greeting Area
- Technical Sessions
- Forums
- Shuttle Bus Drop-off & Pick-up
- Taxi Stand
- Coat & Baggage Claim

### Level 3

- Hands-On Labs
- Technical Sessions

### Level 2

- Media Pressroom
- Hands-On Labs

### Level 1

- Main Exhibit Floor
- Lunch Area
- The Commons



## PARTICIPATING EXHIBITORS\*

Advanced Energy	1325
Advanced Micro Controls Inc. (AMCI)	1625
Ametek	1360
ANDRITZ Ritz GmbH	218
Aparian, Inc.	2031
Apex Dynamics Inc.	1947
Applied Control Engineering Inc	553
AT&T	729
Autodesk	1941
Badger Meter	759
Barry-Wehmiller Design Group	828
Belden	211
Bihl+Wiedemann GmbH	1260
Block USA, Inc.	1960
Bonitron	2033
Brady Corporation	225
Burkert Fluid Control Systems	341
Bussmann by Eaton	324
Cape Software Inc.	858
Central States Industrial (CSI)	240
Cisco Systems	1331
Commerce Controls, Inc.	1866
Concept Systems Inc	1257
Control Station Inc.	1264
Curtiss-Wright/Exlar® Actuation Solutions	1863
Cybertrol Engineering	246
Data-Linc Group	250
DENSO Robotics	1261
DESTACO	1961
Det-Tronics	1864
Dialight	1158
Elm Electrical, Inc	1566
Elwood Corporation – High Performance Motors Group	1761
Endress+Hauser	441
Energy Control Technologies	208
EPLAN Software & Services	1915
eRPortal Software Group, LLC	1356
ESTeem Wireless Modems	928
FANUC	1661
Festo Corporation	1249
FLIR Systems	1231
Fluke Corp.	519
General Cable	815
Grace Engineered Products, Inc.	829/830
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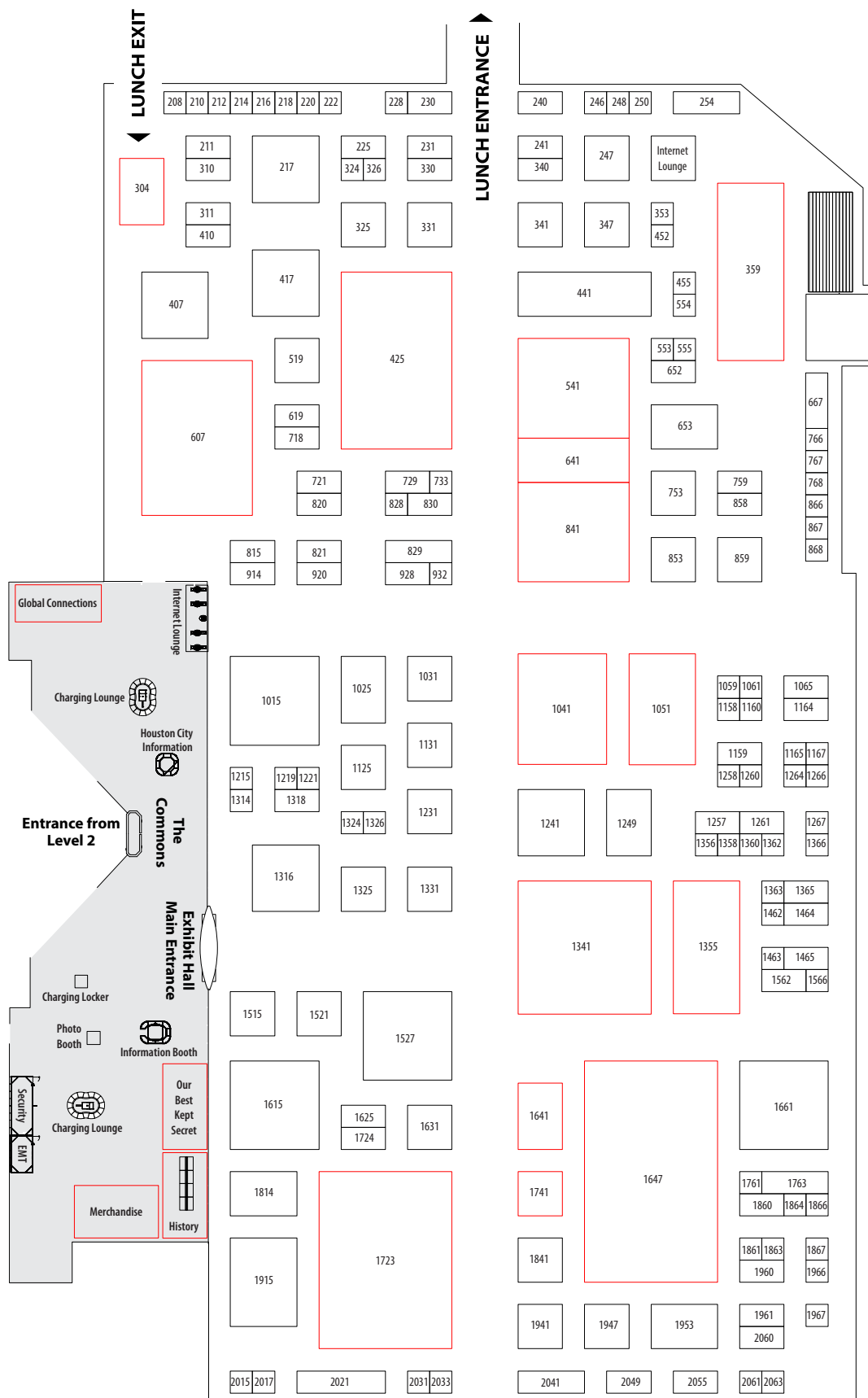
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■ Encompass Partner ■ OEM Program Partner ■ Solution Partner ■ Strategic Alliance Partner

\*as of October 07, 2016







# Session Registration

## NEW! REGISTER TO ATTEND SESSIONS!

Register for any of the technical sessions, hands-on labs and forums you would like to attend at the 2016 Automation Fair® event.


*Please note, registration is required to attend any session.*

### At the Automation Fair® event:

Pick up your event badge from registration area, located in the main lobby on level 4 between Buildings A & B. Your badge will be your access into the sessions you are registered for.

Add or change your session registrations at the event using the mobile app or the session change kiosks, located outside of the session rooms on levels 2, 3, and 4 of Building B.

### Register for Sessions Using the Mobile App:

Log into the ROKEvents mobile app and choose the sessions you are interested in attending. Click on the “Add to My Agenda” icon  of the session description.

Your username and password is what you created when you registered to attend the event.



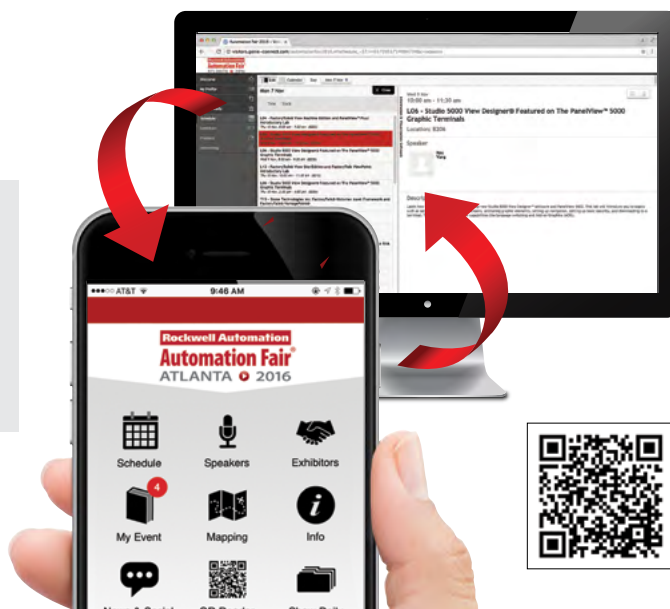
## PLAN YOUR DAYS AT THE 2016 AUTOMATION FAIR® EVENT

The mobile app and desktop portal is your most up-to-date event guide! Use the app to:

- Register for sessions
- Search for exhibitors and sessions by industry
- Create your own personal agenda
- Download session materials
- Network with other attendees
- Get the latest event news and updates

### Ideal Days Key:

<b>AM</b> Automotive	<b>OG</b> Oil & Gas
<b>CH</b> Chemical	<b>PE</b> Power & Energy
<b>FB</b> Food & Beverage	<b>PP</b> Pulp & Paper
<b>LS</b> Life Sciences	<b>TCE</b> The Connected Enterprise
<b>OEM</b> Global Machine and Equipment Builders	<b>TR</b> Tire
	<b>WW</b> Water Wastewater





## AUTOMOTIVE & TIRE

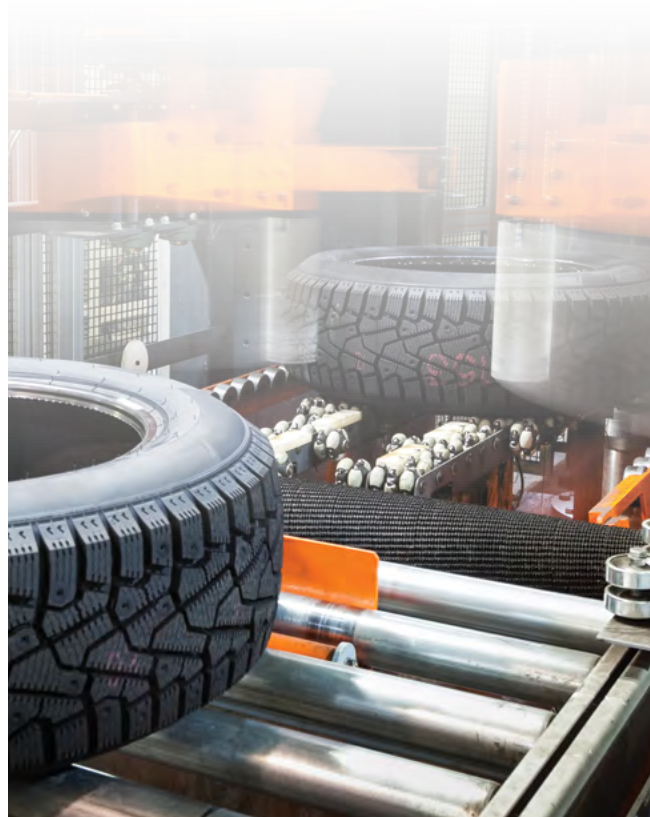
Wednesday, November 9

1:00 – 4:00 p.m.

B407

The automotive and tire industries remain strong as manufacturers continue to invest in new technologies and plants. Increasing consolidation, industry regulations and consumer demand require new manufacturing approaches – across the supply chain – to remain profitable.

Learn how industry peers are successfully implementing integrated control and information systems to improve their operations and thrive in a global economy.



### Integrated Automation Solutions for Tire Rubber Mixing Plants

Increased performance requirements in today's rubber plants demand integrated automation solutions. In particular, the rubber mixing process is a complex concatenation of several individual processes which can be optimized with modern control technology. By implementing a Rockwell Automation Integrated Architecture solution, HF Mixing provides customers with highly efficient and flexible equipment for their tire rubber mixing plants.

**Hans-Martin Monyer** | Head of Automation & Systems, HF Mixing Group

### Improving Tire Manufacturing with IoT and Modern Control Technologies

Tire manufacturing is changing, driven by increased demands from the automotive industry, global competition, and the need to reduce the impact of labor costs. Modern machine control, vision, and servo technology, along with increased data exchange with other systems, can improve the tire manufacturing process. Industrie 4.0 or Smart Manufacturing offers new opportunities for intelligent and "situation aware" equipment operation. Jan will discuss these changes and how they affect equipment developed by VMI for the tire industry.

**Jan Grashuis** | Vice President, Global R&D, VMI Group

### Case Study: Safety Collaboration in the Tire and Rubber Industry

Hear how collaboration between environmental, health and safety, and engineering departments improved efficiency, productivity and safety at Michelin, through standardization of scalable safety solutions.

**Kerry White** | Automation and EP Métier Leader, Michelin North America

### Flexible Conveyance System Increases Throughput for Automotive Assembly Lines

KUKA Systems North America has implemented a PULSE carrier conveyance system for automotive assembly lines that uses Rockwell Automation linear synchronous motors to move body carriers through robotic workstations. The result is a flexible system design that is 30% faster than traditional friction-based transfer systems. With fewer wearable parts, maintenance is simplified. In addition the PULSE system can handle up to four different models, providing adaptability in new or current assembly processes.

**Michael LaRose** | Executive Vice President, KUKA Systems North America

### Manufacturing Equipment Standards & Standardization

As Jaguar Land Rover expands, one of the key enablers for multiple product launches is the standardization of manufacturing equipment and commodities. This standardization greatly reduces the complexity and engineering of their facilities. It also allows a stable follow-on platform for the introduction of smart data through a Connected Enterprise.

**Steve Cartwright** | Sr. Manager, Equipment Standards & Controls  
Jaguar Land Rover



## CHEMICAL

Thursday, November 10

9:00 – 11:30 a.m.

B406

In today's global business climate you are confronted with myriad challenges linked to cost controls, regulations, limited work force, cyber security, and ever-changing market pressures. Whether you're producing high-volume commodity chemicals or low-volume specialty chemicals, you need to find ways to do so in the safest, most cost-effective manner.

During this forum, leading industry experts will demonstrate how they manage these challenges, using information solutions and automation strategies to achieve a competitive advantage.

### Managing Cyber Risk: Current Threats and Defensive Strategies for Protecting Industrial Control Systems of U. S. Critical Infrastructure

Like many heavy industries, today's chemical operations are striving to achieve a more connected enterprise through increased automation and the merging of their IP and OT operations. But with that connectivity comes cyber risks, and having the proper safeguards in place is critical.

This session will provide an overview of the DHS ICS-CERT (Industrial Control Systems Cyber Emergency Response Team) as a program, covering its mission, responsibilities, products, and services. In addition, the presentation will discuss current cyber threats and real-world examples of vulnerabilities and cyber incidents in critical infrastructure, and how to protect against them. Participants will be offered a number of specific actions they and others in their organizations can take to increase their cybersecurity knowledge and the cybersecurity posture of their organizations.

**Neil Hershfield** | Deputy Director Industrial Control Systems CERT, U.S. Department of Homeland Security

### Process Safety – Protecting People, the Environment, and Control Assets

The chemical processing industry is evolving to meet modern business and technical challenges, including process safety compliance. With many facilities modernizing their existing controls, process safety must be factored in, ensuring continued compliance with regulations, also embracing the opportunity to improve asset utilization, risk reduction, and lowering the total cost of ownership. Join us to learn more about process safety management, the standards to assist with compliance, and the importance of safety requirement specifications.

**Kirk Fontenot** | Process Safety Business Development Manager, Rockwell Automation

**Pete Skipp** | Manager Global Process Safety, Rockwell Automation

### Case Study: Innovative Design Engineering Associates' Specialty Chemical PlantPAX Project

IDEA Engineering, a full-service engineering and design firm, will present a grassroots specialty chemical project employing Rockwell Automation's PlantPAX Modern DCS. The discussion will focus on the "client education" and benefits of early system definition for a batch DCS project. IDEA will review their execution approach and technology usage which resulted in improved delivery schedule, lower risk, and cost-savings realized by both IDEA and the client.

**Paul Mancuso** | P.E., CxA – Principal, Innovative Design Engineering Associates (IDEA)

### Case Study: Mynah/EDC Operator Training System

Mynah will discuss a recent Operator Training System (OTS) project for El Dorado Chemical. They will share details about the technology used in the project, the partnership with Rockwell Automation, and lessons learned. Mynah will demonstrate the value of the OTS to empower operators to safely and efficiently run the facility by using simulations to train personnel on potential real-world scenarios.

**Todd Jaco** | Simulation Solution Engineer – Business Development, MYNAH Technologies

**Martin Berutti** | President & COO, MYNAH Technologies





## FOOD & BEVERAGE

Wednesday, November 9

9:00 – 11:30 a.m.

B405

Food and beverage manufacturers face a challenging environment driven by consumer demand requiring greater innovation and speed to market; while managing operating cost and efficiency. This is all compounded by greater regulatory pressures.

Learn how leading companies are reaping the benefits of a Connected Enterprise and driving operational excellence and financial value in the food and beverage industries.



### Food Safety is a Control Problem

Providing safe food is a critical issue for the food industry. Motivated by this issue societal losses, the U.S. Congress passed the Food Safety Modernization Act (FSMA) into law in 2011. These laws are intended to prevent, and not just react to, foodborne illnesses. This talk will review the main elements of FSMA, the timing of key regulations, and opportunities for data management and reporting.

**John Helferich** | PhD Candidate, Massachusetts's Institute of Technology, Sr. VP R&D Mars, Inc. (retired)

### Tyson Foods Mobilizes Information to Improve Compliance

The Tyson Foods prepared foods facilities make over 3.5 billion pounds of product annually while collecting data from all over the plant's footprints including utilities, processing, and packaging. Tyson leverages server based and mobile applications from Rockwell Automation and Microsoft to increase plant visibility for food safety, quality compliance, and production. The applications in place have assisted facilities in reducing waste and water usage, visualize production processes, and identify solutions to process deviations.

**Jon Riechert** | Senior Engineer – Innovation, Tyson Foods

### Mondelez Modernizes Cookie Plant to Increase Yield and Reduce Downtime

Like many manufacturers, Mondelez had a large installed base of automation that was rapidly approaching end of life. They faced challenges with downtime and raw material loss. Learn how Mondelez partnered with Rockwell Automation to modernize the cookie plant and achieved increased yield, reduced downtime and productivity.

**Harry Hayes** | Sr. Systems Supervisor, Mondelez

### Corporate-Wide Training Program Ensures Growth and Success

Demographic shifts and shortage of current and future ready workforce are impacting the ability of many food and beverage manufacturers to grow their business. Learn how Land O'Lakes created and deployed a customized comprehensive workforce training program focused on increasing the consistency, experience and competency of their employees to improve enterprise-wide productivity and profitability.

**Mark Hanley** | Sr. Asset Reliability Manager, Land O'Lakes

### Wonderful Pistachios Meets Global Demand With New Production Facility

Customers around the globe increasingly turn to pistachios as a part of their diet. To meet this growing demand, leading nut producer Wonderful Pistachios & Almonds built a new production facility in California. Learn how Wonderful Pistachios standardized on the Rockwell Automation control platform and quickly exceeded their production goals.

**Paul Hughes** | General Manager, The Wonderful Company

**Don Kloster** | Electrical Engineering Manager, The Wonderful Company



## GLOBAL MACHINE & EQUIPMENT BUILDERS (OEMS)

Thursday, November 10

9:00 – 11:30 a.m.

B405

OEMs are challenged to continuously innovate and stay competitive. As more end users move to a Connected Enterprise to optimize their production and supply chain, they want added value beyond the machinery or equipment.

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



### Improving Machine Performance Through Analysis of Real-Time Information

Crown Machinery Co. Ltd. located in Taiwan, produces precision machinery for the coating, drying, and laminating process industry. By deploying a high performance architecture from Rockwell Automation, Crown is developing smart machines to collect and analyze real-time information to improve machine performance. Committed to continual improvement, Crown is building on this foundation with additional features to improve customer productivity and differentiate their machines.

**C.P. Fang** | Vice President, Crown Machinery Co. Ltd.

### Innovative OEE Measurement Solution Improves Business Performance

Pulsar produces specialized machinery for the tissue industry. It has recently developed the Reds Platinum System specifically to improve the overall efficiency of tissue converting lines. Based on Rockwell Software® FactoryTalk® suite, the Reds Platinum measures and defines the OEE (Overall Equipment Effectiveness) for a complete line as well as each machine and device on the line. The result is a very attractive platform for improved business performance.

**Massimo Capisani** | Vice President Operations, Pulsar America Inc.

### Real-time Information Improves Process for Brewers

Newlands Systems, headquartered in Abbotsford, BC, provides brew systems for small microbrewery start-ups to major, global brewers producing craft brews. The company has deployed a scalable and modular brewhouse control system, based on Rockwell Automation control hardware and software that is easily customized for market needs. Offering remote monitoring as an aftermarket service, customers get better information regarding asset care and preventative maintenance to improve their process.

**Steve Grundy** | Vice President Sales, Newlands Systems

### Integrated Solution Enhances Machine Performance

Servo Soluciones (SSI) specializes in equipment to handle perishable fresh food. Their newest packaging machine for gelatin and yogurt provides greater operation efficiency and improves speed in filling, sealing and cutting. Using a Rockwell Automation integrated control system, SSI has improved motion control precision and positioning, enabling increased flexibility for changeovers. Machine parameters can be monitored in real-time for efficient position control and enhanced machine performance for their customers.

**Eduardo Gaytan** | Automation Project Manager, Servo Soluciones

## LIFE SCIENCES

**Wednesday, November 9**

**1:00 – 3:30 p.m.**

**B405**

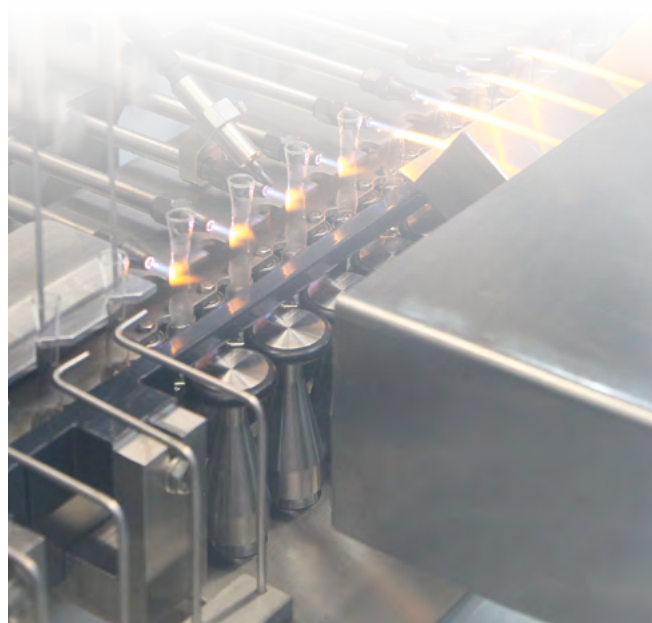
Global life science companies face new challenges: innovation demands, speed to market, regulatory pressures and operational efficiency. Leaders in this industry are adopting new business models that deliver better patient outcomes at a lower cost.

Learn how leading companies are using integrated information and control technology to meet their operational challenges.

### Cybersecurity in the Life Science Industry

As pharmaceutical companies invest in technology to improve productivity and profitability, the increased connectivity comes at a price – increased security risks. An industrial cyber-attack may cause equipment failure, production loss, regulatory issues and liability concerns. Internal and external threats can cause significant disruption to a company. In this case study, a leading pharmaceutical company discusses methods and strategies they deployed to protect and minimize attacks on their business.

**Jim Labonty** | Director – Global Automation, Pfizer



### Is the Technology Driving Manufacturing to Success?

In this session, a case history of the Italian Eli Lilly plant of Sesto Fiorentino is presented providing a brief description of the roadmap that brought Sesto plant to be an “integrated plant” and a plan to envision future opportunities while leveraging past experiences. Learn how technological innovation played a key role over the last couple of decades driving the site success.

**Filippo Salucco** | Process Automation Manager, Eli Lilly

**Andrea Bonaccorsi** | Pharma Equipment Senior Manager & Reliability Champion, Eli Lilly

### Drug Manufacturer Achieves Operational Excellence Through Plant-Wide Integration

Faced with the pressures of stringent regulations and drug affordability, Dr. Reddy's Laboratories invested in IT and automation at its Hyderabad, India plant. Rockwell Automation offered an optimum architecture providing seamless connectivity from the central SCADA and Historian to the MES system. Learn how Dr. Reddy's Laboratories eliminated manual intervention to improve data reliability and benefitted from OEE improvements.

**Girish Deshmukh** | Vice President, Head Engineering – GMO, Dr. Reddy's Laboratories

### PlantPax Enables Grifols Diagnostic Solutions in Emeryville, CA to Transform Their Process and Building Operations

Grifols Diagnostic Solutions in Emeryville, CA faced a challenge. How can a newly acquired legacy facility with no extra capacity enable new innovative drugs to come to market in an extremely short timeframe? The presentation will showcase how Grifols addressed this challenge with Rockwell Automation's PlantPax Distributed Control System as the standard platform for process and building management control.

**Zubin Najmi** | Principal Engineer, Grifols Diagnostic Solutions

### In-line Spectroscopy Solutions Help Pharmaceutical Industries Move to Continuous Manufacturing

The FDA has encouraged manufacturers earlier this year to get “on board” with continuous manufacturing. Just this year they approved a switchover from batch to continuous. Why? Well, just for starters, it's faster, cheaper and less prone to the kinds of issues that worry the FDA. This presentation will explore the immense benefits of employing in-line optical spectroscopy solutions to measure in real-time. This practice ensures manufacturers can make immediate decisions during their processes to reduce waste, improve quality and increase yield.

**William Buie** | CEO, Prozess Technologie





## OIL & GAS

Wednesday, November 9

1:00 – 3:30 p.m.

B406

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

This forum provides an opportunity to hear how petroleum companies are using advanced automation and information technology to meet their operational challenges while maintaining focus on improving production efficiencies.



### Columbia Pipeline Group Reaches 99.5 Percent Reliability with a Connected Control System

The Columbia Pipeline Group needed to modernize its operational environment to improve reliability, gain better insight into operational data and better predict maintenance needs. Working with Rockwell Automation, the company implemented a virtualized PlantPAx® DCS to share information across facilities and to the executive level. As a result of improved analytics, the company reached 99.5 percent availability of its compression fleet and saved approximately \$2.3 million in maintenance costs in 2014.

**Brian Sloan** | Engineering Manager, Columbia Pipeline Group

### Delta House Semisubmersible Floating Production System

Delta House is a semisubmersible Floating Production System. Located in 4500 feet of water in the Gulf of Mexico, it has a footprint of about two acres with a peaking capacity of 100 MBOPD and 240 MMCFD. After three years, 120,000 people and 170 companies across 15 countries, it began production in April 2015. Learn about the project, LLOG's non-typical execution and results to date.

**Rick Fowler** | Vice President, Deepwater Projects, LLOG Exploration

### Portable Dynamometry using Rockwell Automation Rod Pump Controller

DinaPort is a portable dynamometry solution based on the Rockwell Automation Rod Pump Controller. It enables the offline analysis and reporting of well performance where the communication infrastructure limits the automatic aggregation of field data in a central location. It acquires, analyzes, diagnoses and simulates conditions in the well. Learn how it is a valuable tool for production engineering and maintenance personnel to improve operational conditions in the oilfield.

**Gustavo Cerezo** | Development & System Integration Manager, AESA, a YPF company



## POWER & ENERGY

Thursday, November 10

9:00 – 11:30 a.m.

B406

From a “dash to gas” to regulation CWA 316B, the power and energy industries are dynamic. The effective use of technology will help improve both the effective generation and the efficient use of what’s produced.

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



### New Control System Provides Reliability and Remote Operation

DTE Energy’s Hancock Peaking Plant has six simple cycle gas turbines used as peaking units. The outdated pneumatic and electrohydraulic controls provided by the turbine manufacturer were causing problems when operating the turbines. With a view to remote operation, a Rockwell Automation solution was chosen to upgrade the controls and provide not only remote operation, but a variety of other functions, as well.

**Stephen Dage** | PE, Principal Engineer – Process Controls, DTE Energy

**Matt Hallis** | Product Manager, EthosEnergy

### New Combined Heat and Power Plant Provides Flexibility and Security for Hospital

The St. Joseph’s Hospital CHP project was constructed to supply electrical power and steam to the hospital. The project was to provide the plant control system and a micro-grid controller, in this case called a load management system. The aim is to minimize the amount of electrical power imported from the grid, provide increased load capacity and electrical resiliency, while ensuring the gas turbine generator properly services loads when the hospital is islanded from the grid.

**Kareem Suhwail** | Power and Energy Manager, The Rovisys Company

### Upgraded DCS Control System Provides Holistic View of Plant Operation

DTE Energy Services St Bernard, Ohio plant provides energy-related services to a few key local industrial customers. The existing DCS plant control system was aging rapidly and in need of a control system upgrade. The introduction of PlantPAX provides a more sustainable control system that provides a holistic view into the operation of the whole plant and KPI visualization for plant management and maintenance personnel.

**Alexander Mericle** | Technical Analyst, DTE Energy Services

**Mike Srock** | Senior Technical Engineer, DTE Energy Services

### Turbine Controls Upgrade Lowers Operating Costs

With obsolete turbine controls spread across different types of turbines, 13 steam and one gas, Archer Daniel Midland (ADM) identified an issue of a lack of knowledge on the GE Frame 6B DLN gas turbine. This equated to risk in their project plan. With the help of Ethos Energy and Rockwell Automation controls, ADM was able to consolidate two different control systems into one and become more self-sufficient.

**Dan Freese** | Process Control/Electrical Supervisor, Archer Daniel Midland

**Matt Hallis** | Product Manager, Ethos Energy



## PULP & PAPER

Wednesday, November 9

9:00 – 11:30 a.m.

B406

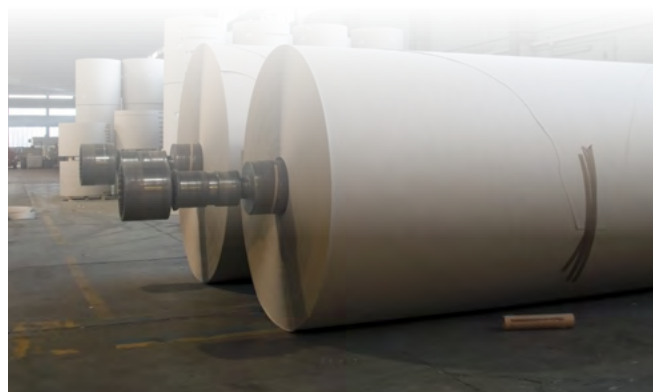
The Pulp & Paper industry has undergone a significant transformation in the past few years. Papermakers are faced with a declining demand for freesheet paper and newsprint, workforce scarcity, environmental concerns, and a market shift towards emerging economies. They must reinvent themselves to remain competitive. Now more than ever, automation and information technology – and associated services – are critical to operational excellence and environmental sustainability.

In this forum, you will learn more about the latest trends and key challenges the industry faces during its transformation journey. In addition, the session will outline strategies you can use to justify return on investment – and ways to modernize operations while minimizing risk. Discover how the implementation of new technologies can enable Pulp & Paper companies to address the workforce gap – and become more productive, competitive and sustainable.

### Nanoscale Control: Getting the Biggest Bang from the Smallest Particles

Nanocellulosic materials have been breaking manufacturing barriers for multiple markets and industries globally. Developing past the lab to full-scale manufacturing has been one of the biggest challenges. A new material developed through co-grinding pulp and minerals created a composite under the tradename FiberLean. This talk will cover some of the challenges of funding, real-time monitoring and issues that come with controlling quality within the Connected Enterprise.

**Sean Ireland** | Vice President Business Development, FiberLean Technologies



### Control System Migration – The Compelling Event

Automation managers face a universal challenge relating to capital access required to replace obsolete control system equipment. In some areas, we are our own worst enemies, and in others we simply fail to align our message with the decision makers' expectations for return on value. This presentation touches on areas of struggle and success experienced by the presenter in building value statements for automation investment.

**Mike Clark** | Co-Owner, Project Manager and Sales, Contract Project Management LLC

### Multiple Concurrent Systems Migration to an Integrated PlantPax Distributed Control System

Leveraging the PlantPax DCS platform, Global Process Automation performed multiple legacy DCS migrations simultaneously at a major pulp and paper facility. Drawing on the scalability and flexibility of PlantPax with Integrated Architecture, Global Process Automation was able to successfully convert legacy control systems for the recovery and paper machine areas. Installation of new Rockwell Automation Smart MCCs and E300 overload relays allowed seamless integration within PlantPax. This major capital investment required integration, collaboration, and process optimization strategies across multiple areas, vendors and engineering companies. Learn how Global Process Automation managed, configured, commissioned and trained plant personnel to successfully complete this project on-time and under budget.

**Daniel Lee** | Vice President of Operations, Global Process Automation (GPA)

### Phased Approach to Eliminating Obsolescence on Coater Drive System

Verso Corporation wanted to improve up time and increase production speeds on their #67 Tandem Coater. Issues with tension control coupled with obsolescence and bandwidth limitations of the existing controllers and drives prevented this.

An upgrade provides improved control capability, increased system bandwidth to support future enhancements, and provides diagnostic tools allowing for a better understanding of what is occurring on the machine.

**Jay Capelle** | Senior Project Engineer (BSEE, PE, MBA), Verso Corporation

### Advantages Gained from a Paper Machine Drive System Upgrade

The major advantage gained from a Drive System Upgrade on a Paper machine is increased Production. As is typical, this is seen initially through reduced downtime associated with replacing aging equipment with higher quality, more reliable equipment. But the advantages do not end there, as modern control systems now allow for more actionable data to be able to identify issues quickly, give information on corrective actions, allow for localized quick response, have connectivity to remote support and monitoring – all allowing for better quality and increased production.

**Grady Jeffreys** | Project Manager Team Lead, Rockwell Automation

**Bob Van Lieshout** | Engineering Manager, Rockwell Automation

## WATER WASTEWATER

Wednesday, November 9

9:00 – 11:30 a.m.

B407

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

At this forum, water industry professionals will discuss industry trends and issues, the benefits of deploying a flexible and scalable solution, and methods to help reduce total lifecycle cost and overall risk.



### Monitoring Advancements Help Reduce Costs and Protect Critical Asset Life for County Water System in Michigan

Leveraging advancements in process control and communication technology, this Michigan County 35MGD water plant improved reliability and enhanced operational safety implementing a single system monitoring tool. Throughout their new water plant, water intake, 70 MGD pump stations and pipeline, overall costs associated with critical equipment operation and maintenance are reduced thanks to the early detection and alarming provided by integrating this solution into the modern process control system.

**Kim Chapman** | Senior Project Engineer, Hubbell, Roth & Clark, Inc.

### IntelliCENTER Networked MCC – Life Cycle Cost Analysis

With extensive experience analyzing project costs and minimizing risk for water plants, Woodard & Curran understands advancements in technology play a vital role in enhancing system knowledge and system control. During this presentation, we will compare traditional MCCs with networked MCCs, understanding municipality requirements and the need to offer the best value over the life of equipment. Taking into consideration the need for instant status, information gathering, and forensic analysis, networked equipment greatly enhances the available data for instantaneous communication. Good data – good decisions.

**JT Trinward** | Technical Manager, Woodard & Curran

### Remediation of Control System Lifecycle Vulnerabilities at the Town of Cary, NC thru Risk-Averse Modernization

The Town of Cary, NC is one of the fastest-growing cities in the United States. As part of a control system vulnerability assessment at the water treatment plant and its associated raw water pumping station, the age of existing PLC Systems was identified as a growing concern. Opened in 1993, the Town of Cary/Apex Water Treatment Plant supplies an average of 32 Million Gallons of water per Day, and utilizes (21) PLC systems, including over 3,300 hardwired I/O. The control systems within the plant were comprised mostly of PLC 5 controllers with Bulletin 1771 I/O, as well as several SLC 5/04 controllers with Bulletin 1746 I/O. The Town of Cary and HDR Engineering set out to design a way to expeditiously modernize those control systems in the most risk-averse manner possible.

**Billy Fox** | East Region Automation & Technical Services Program Manager, HDR Engineering



## HANDS-ON LABS

Minutes

Hands-on labs are ninety minutes and allow you to work hands-on with Rockwell Automation products. See page 24 for information on how to register.

### Ideal Days Key:

<b>AM</b> Automotive	<b>OG</b> Oil & Gas
<b>CH</b> Chemical	<b>PE</b> Power & Energy
<b>FB</b> Food & Beverage	<b>PP</b> Pulp & Paper
<b>LS</b> Life Sciences	<b>TCE</b> The Connected Enterprise
<b>OEM</b> Global Machine and Equipment Builders	<b>TR</b> Tire
	<b>WW</b> Water Wastewater

### CONTROL

#### L07 Micro800® PLC Programming with Connected Components Workbench™ Software

B207 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

This self-paced lab teaches how easy it is to program and configure a small standalone machine using the latest Connected Components Workbench™ software. The control solution will consist of a Micro800® Programmable Logic Controller (PLC), a PowerFlex® Drive, and a PanelView™ 800 HMI. Programming of advanced HMI and PLC features, including TCP/UDP sockets, is also available.

**OEM**

#### L08 Sensors for Your Architecture with IO-Link

B208 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

This session highlights smart Allen-Bradley® sensors with IO-Link technology that help enable The Connected Enterprise and provide seamless visibility of data by leveraging the Rockwell Automation® Integrated Architecture®. Attendees will experiment with these Allen-Bradley sensing technologies and see how they can use IO-Link specific features to solve sample applications.

**OEM TCE**

#### L15 Tools that Simplify Product Sizing and Selection

B303 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

Develop basic competency in using Integrated Architecture® Builder (IAB), Motion Analyzer (MA) and ProposalWorks™ (PW) to develop valid bills of material for projects and output reports. Attendees will learn how to configure systems in IAB, size a drive in MA and assemble a proposal/quote in ProposalWorks.

**FB OEM**

#### L16 Studio 5000® and Logix Basics Lab

B304 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

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

**AM FB LS OEM TR WW**

#### L17 Studio 5000® and Logix Advanced Lab

B305 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

So you've got the basics, now let's take it to the next level with this advanced Studio 5000® and Logix session. This pick and choose lab will allow you to explore topics of interest and quickly see how capabilities add the most value to your design. By the end of this session, you will be on your way to becoming an expert.

**AM FB LS OEM TR WW**

### INFORMATION & VISUALIZATION SOFTWARE

#### L04 FactoryTalk® View Machine Edition and PanelView™ Plus: Introductory Lab

B203 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

This hands-on lab focuses on basic FactoryTalk® View Machine Edition concepts for new users. Topics include creating an application, working with displays, global objects, and tags, using parameters, testing and running the application, and language switching. See how features like search and replace tag and text, tag cross-reference, and more, can help you to get more work done in less time.

**OEM**

#### L06 Studio 5000 View Designer® Featured on The PanelView™ 5000 Graphic Terminals

B206 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

Learn how to increase productivity with the new Studio 5000 View Designer™ software and PanelView 5500. This lab will introduce you to topics such as setting up a project, creating screens, animating graphic elements, setting up navigation, setting up basic security, and downloading to a terminal. The lab will also cover new capabilities like language switching and Add-on Graphics (AOG).

**AM FB OEM TR**

#### L12 FactoryTalk® View Site Edition and FactoryTalk ViewPoint: Introductory Lab

B212 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

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

**AM LS OEM TR**

### NETWORKS & SECURITY

#### L02 Applying Basic EtherNet/IP Features in Converged Plantwide Ethernet Architectures

B202 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

EtherNet/IP enables both seamless plantwide information and convergence of industrial and non-industrial network traffic, while maintaining real-time communication for control applications. This hands-on lab covers various techniques, best practices, software and products using EtherNet/IP with Stratix® switches.

**AM FB LS OEM TR WW**

#### L03 Applying Advanced EtherNet/IP Features in Converged Plantwide Ethernet Architectures

B204 – Wednesday, 8:00 a.m., 10:00 a.m.; Thursday, 12:30 p.m., 2:30 p.m.

EtherNet/IP enables both seamless plant-wide information sharing and convergence of industrial and non-industrial network traffic, while maintaining real-time communication for control applications. This hands-on lab covers various techniques, best practices, software and products using EtherNet/IP. It demonstrates Network Address Translation (NAT) in Layer 2 and Layer 3 architectures, VLAN segmentation and Connected Routing. Prior understanding of general Ethernet concepts is recommended.

**AM TR WW**





## L05 Design Applications with FactoryTalk® Security in a Distributed Control System

B204 – Wednesday, 12:30 p.m., 2:30 p.m.; Thursday, 8:00 a.m., 10:00 a.m.

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

AM TR WW

## POWER, MOTION & MOTOR CONTROL

### L10 Speed Integration: CENTERLINE® MCCs, Studio 5000® Logix Designer and IntelliCENTER® Software

B210 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

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

### L11 Integrated Motion on EtherNet/IP: High Performance Architecture Lab

B211 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

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

AM OEM TR

### L18 PowerFlex® Drives Configuration and Programming

B306 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

Learn how to quickly and easily configure PowerFlex® AC drives. From the built-in human interface module, to Connected Components Workbench™ software or the Rockwell Software® Studio 5000® Logix Designer, we provide you with powerful, intuitive tools to help enhance your user experience and reduce your development time so you can deliver machines faster and more efficiently. Finally, see how Automatic Device Configuration can help save valuable time to get your machines back on line faster.

AM OEM TR

### L19 Integrated Motion on EtherNet/IP

B308 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

Learn how to configure, program, and commission a CompactLogix™ 5370 controller with integrated motion on EtherNet/IP using the new Kinetix® 5500 servo drives and PowerFlex® 527 variable frequency drives.

AM OEM TR

## PROCESS SOLUTIONS

### L13 PlantPax® MPC: Optimization in the Logix Controller for Easy Deployment

B301 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

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

CH FB PE PP WW

### L14 Introduction to PlantPax® Process Control System for Operations and System Engineering

B302 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

This lab examines the PlantPax® system within a simulated plant environment through the eyes of an operator or system engineer. As an operator, learn about navigating and interfacing with key system functions in a utilities and batch area. As an engineer, execute simple configuration changes and add a new control strategy using the Rockwell Automation® Library of Process Objects®. This session provides basic familiarity with the PlantPax® system.

CH FB LS PP TCE WW

## SAFETY & COMPLIANCE

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

B201 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

In this lab, learn how GuardLogix® Integrated Safety Systems support intermediate level to complex safety applications – using a single controller and programming environment for safety, discrete, motion, and drive functions, and with seamless connectivity to plant-wide information systems.

AM OEM TR

### L09 Developing Safety Applications Using Guardmaster® 440C-CR30 Configurable Safety Relay

B209 – Wednesday and Thursday, 8:00 a.m., 10:00 a.m., 12:30 p.m., 2:30 p.m.

You'll learn to use the Guardmaster® 440C-CR30 Configurable Safety Relay to support small to intermediate safety applications. Built to meet PLe/SIL 3 requirements, featuring 22 embedded safety I/O and a USB port, the 440C-CR30 is configured with Connected Components Workbench™ software. An EtherNet/IP module can communicate diagnostic information to Logix controllers.



Minutes

## TECHNICAL SESSIONS

Technical sessions are sixty-minute presentations by leading industry and product experts. See page 24 for information on how to register.

### Ideal Days Key:

<b>AM</b>	Automotive	<b>OG</b>	Oil & Gas
<b>CH</b>	Chemical	<b>PE</b>	Power & Energy
<b>FB</b>	Food & Beverage	<b>PP</b>	Pulp & Paper
<b>LS</b>	Life Sciences	<b>TCE</b>	The Connected Enterprise
<b>OEM</b>	Global Machine and Equipment Builders	<b>TR</b>	Tire
		<b>WW</b>	Water Wastewater

## CONTROL

### T08 Optimize Costs for Small Standalone Machines with Connected Components Workbench™ Software

B310 – Wednesday and Thursday, 8:00 a.m.

See how Connected Components Workbench™ is the single software solution, which optimizes Micro800® Controllers. Learn about the new device support and features in the latest software release, which will enable connecting a PanelView™ 800 to a CompactLogix™ L1 Controller.

OEM



### T09 Advanced Energy: Precise Thermal Measurement and Control for Temperature-Critical Applications

B310 – Wednesday and Thursday, 9:00 a.m.

Thermal management and control largely determine overall process uniformity, product quality, and throughput in your temperature-critical applications. This session describes the high repeatability, precision, and control available with AE non-contact optical pyrometers and SCR power controllers, and how their proven performance supports the long-term success of your manufacturing operation.

### T10 Smart Devices – Helping Design, Operate and Maintain The Connected Enterprise

B310 – Wednesday and Thursday, 10:00 a.m.

Smart devices (sensors, starters, drives, overload relays, power and condition monitors, safety components and scanners etc.) deliver real time control and information that feeds up through your smart connected plant. This session will take a look under the hood and give an overview and demonstration of some of our smart 'edge' devices and show how they can help during the design, operation and maintenance of The Connected Enterprise.

AM OEM OG TCE TR WW

### T11 Autodesk: Electromechanical Design with AutoCAD Electrical and Inventor Professional

Autodesk

B310 – Wednesday and Thursday, 11:00 a.m.

Attend this session to learn how the new interface between AutoCAD Electrical and Autodesk Inventor provides you with real time synchronization. You will see the tools and functionality available to eliminate and disconnection between electrical and mechanical design and combine them into an integrated 2D-3D workflow.

OEM TCE

### T12 The Connected Enterprise in Hazardous Areas: Overview of the Intrinsically Safe 1719 Ex I/O

B310 – Wednesday and Thursday, 1:00 p.m.

Overview of The Intrinsically Safe 1719 Ex I/O including key product features, applications, and EtherNet/IP and power wiring considerations for hazardous areas.

CH OG TCE

### T13 Pentair - Hoffman: Improve the Life of Components in Industrial Enclosures

Hoffman

B310 – Wednesday and Thursday, 2:00 p.m.

In complex processing facilities, machine assets in highly automated facilities are often scheduled to work around the clock. This presentation discusses the impact of failure to industrial components due to overheating, the cost of failure in replacement of components and downtime, and presents the advantages of remotely monitoring production lines.

AM OEM TR

### T29 What's New in Logix

B313 – Wednesday and Thursday, 8:00 a.m.

Learn what's new in our Logix control platform. This session will cover advances in control and I/O platforms for high performance machine control.

AM OEM OG PE TR WW

### T43 Revere Control Systems Inc: Migration: SLC/Ifix To ControlLogix/FactoryTalk in Just Seven Weeks



B315 – Wednesday and Thursday, 8:00 a.m.

When an Alabama pipe manufacturer needed to reduce their risk of downtime, their project was fast-tracked, making maximum use of existing panels and cabling, to have installation coincide with a plant shutdown just seven weeks from the issue of the PO. Learn how this was accomplished.

AM TR WW

## INFORMATION & VISUALIZATION SOFTWARE

### T01 Data Management and Reporting Made Simple

B309 – Wednesday and Thursday, 8:00 a.m.

The integration of control data (live and historical) with business systems is critical in today's manufacturing environment. The seamless integration and access of this data in a form that provides decision-making capabilities is crucial. Rockwell Automation® helps deliver that seamless integration with the latest releases of FactoryTalk® Historian and VantagePoint® – featuring synchronized methodology for collecting, maintaining, and analyzing process data at each level of manufacturing operations. This session will demonstrate new features and functionalities.

AM CH FB LS OEM PE TCE TR WW

### T15 Stone Technologies Inc: FactoryTalk® Historian Asset Framework and FactoryTalk® VantagePoint®



B311 – Wednesday and Thursday, 8:00 a.m.

Stone Technologies leveraged FactoryTalk Historian and Asset Framework as the core technology in this solution that provides historical and real-time process analysis between wire coating machines. This solution also maximizes engineering reuse as Southwire expands the solution to other lines and facilities.

AM OEM TR



## T16 Asset Management to Help Protect Your Investments and Reduce Risk

B311 – Wednesday and Thursday, 9:00 a.m.

Modern facilities have investments in thousands of assets. How are you managing all those assets and protecting your investment? How do you manage the inventory with all the versions of firmware and software running? Operators need a tool to understand their automation infrastructure, reducing downtime and better managing production lifecycles. Learn about the latest in asset management, from automated network scans to new mobile capabilities.

AM FB LS OG PE PP TCE TR

## T17 HMI Modernization

B311 – Wednesday and Thursday, 10:00 a.m.

From merely providing plant data on a mobile device, HMI now delivers real-time data and actionable insights to operators. The consequent benefits, such as lower plant operation costs, higher process efficiency and greater energy efficiency, will power the adoption of HMI solutions.

AM FB LS OEM TR

## T30 What's New in Visualization

B313 – Wednesday and Thursday, 9:00 a.m.

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

AM OEM OG PE TR WW

# NETWORKS & SECURITY

## T02 Design Considerations for Robust EtherNet/IP Networking

B309 – Wednesday and Thursday, 9:00 a.m.

Top considerations that are developed by Rockwell Automation® and our partners to help you design and deploy a more scalable, robust, secure and future-ready EtherNet/IP network infrastructure. A prior understanding of general Ethernet concepts is recommended.

AM TR WW

## T03 New Security Features Help Reduce Risk in Your Industrial Control System

B309 – Wednesday and Thursday, 10:00 a.m.

Learn how you can reduce risk and enhance protection of your industrial control system against security threats. Discussion and demonstration will focus on practical recommendations for installing, commissioning and improving the security of an Integrated Architecture® including new capabilities in Stratix® security appliances and Logix controllers, and how to use FactoryTalk® Security to control user access to key assets and information.

AM CH OEM OG PE TCE TR WW

## T04 Wireless Design Considerations for Industrial Applications

B309 – Wednesday and Thursday, 11:00 a.m.

Industrial Automation and Control System (IACS) applications increasingly use wireless LANs that require reliable data transmission with low levels of latency and jitter. Deploying a wireless network requires thoughtful planning and design, as well as periodic monitoring to meet expectations for bandwidth, throughput, reliability and security.

AM PP

## T18 Deploy Resilient Network Architectures Using Stratix® Switches

B311 – Wednesday and Thursday, 11:00 a.m.

Optimization of your plant-wide architecture requires a network infrastructure that is scalable, robust, secure and future-ready. Learn how a resiliency framework uses multiple technologies deployed at different levels within the plan – with technology choices in topology and switches, including the Stratix® 5700 and Stratix 5400 with integrated DLR, DLR DHCP, Dual DLR Gateway and a Stratix 5410 distribution switch stack.

AM TR

## T19 HMS Industrial Networks AB: Peeling The Onion. Ensure Security Features Are Working in Harmony



B311 – Wednesday and Thursday, 1:00 p.m.

As OT and IT systems converge understanding security features is critical to ensure your network is secure. Understanding security features and how they interact can be daunting. During this session HMS Industrial Networks will walk attendees through a step-by-step process to ensure your network is leveraging current security techniques. Starting with selecting network products that are design for security. Then, integrating those products into a complex cloud connected architecture and choosing which security features to leverage. Finally analyzing the security associated with each data link in the system, to ensure maximum security is being achieved.

AM TR

## T20 Interstates Control Systems Inc.: Cybersecurity in Manufacturing



B311 – Wednesday and Thursday, 2:00 p.m.

Keeping your environment secured against threats while improving your cybersecurity stance is challenging. Systems availability and data integrity are crucial security components in today's manufacturing environment. Interstates will discuss the various cybersecurity frameworks (NIST, IEC 62442, etc) along with techniques and technologies for meeting these challenges.

AM TCE TR

## T21 MTS Systems Corp. Sensors Division: Gain Operational Improvements with DLR Capable EtherNet/IP Positioning Sensors



B311 – Wednesday and Thursday, 3:00 p.m.

Linear position sensors on an EtherNet/IP network provide continuous, multi-position feedback, advanced diagnostics, and when configured in a Device Level Ring improves overall network reliability. Examine how customers were able to benefit from reduced cabling costs, less downtime, and easier installations after upgrading to Ethernet/IP-based position sensors.

AM

## T44 Owl Computing Technologies, Inc.: Data Diodes Strategies for Industrial Control System Cybersecurity



B315 – Wednesday and Thursday, 9:00 a.m.

The Department of Homeland Security has issued a whitepaper documenting seven strategies for preventing 98% of reported cyberattacks against industrial control networks. One of the key elements is data diodes. This session covers the benefits of defending control networks with data diodes and how they support all seven cybersecurity strategies.

TCE

## T45 Symantec Corporation: The Cyber Security War in the Industrial Sector



B315 – Wednesday and Thursday, 10:00 a.m.

Attacks against industrial systems are increasing every year, creating a growing risk of service interruption. In this session Symantec will explore these attacks as well as methods and motivations of these attacks. Avoidance and mitigation strategies using endpoint security will be discussed.

AM PP TCE TR

## T46 Tempered Networks: A Modern Approach to Safeguarding Your Industrial Control System and Assets

B315 – Wednesday and Thursday, 11:00 a.m.

The cyber threat environment for ICS has escalated over the last year with watershed cyber-attacks and researchers are discovering record numbers of vulnerabilities effecting ICS hardware and software. Yet companies are increasing industrial network connectivity in response to business and economic drivers, which presents a conundrum for OT and IT staff. Learn about the current trends in ICS security and new standards being implemented to improve the connectivity.

PP



## POWER, MOTION & MOTOR CONTROL

### T31 What's New in Kinetix® Motion Control

B313 – Wednesday and Thursday, 10:00 a.m.

Learn what's new in our Kinetix® motion control platform. This session will review products and technologies for OEMs.

AM OEM TR

### T32 What's New in PowerFlex® Drives

B313 – Wednesday and Thursday, 11:00 a.m.

Today's portfolio of PowerFlex® drives can do so much more than spin a motor. In this session, you will learn about the new PowerFlex® 755T drives, Integrated Safety options along with all the capabilities beyond motor speed and torque control of this versatile portfolio.

AM OEM OG PE PP TR WW



## T47 Hammond Power Solutions, Inc.: Application of Transformers in Special Environments and Industries

B315 – Wednesday and Thursday, 1:00 p.m.

Many transformer applications require enhanced or special designs to ensure long-term performance. Typical examples include outdoor designs, marine and drilling duty and units used in hazardous locations. This session covers the key performance criteria that each application demands, and how solutions from HPS can ensure success.

## T48 MTE Corporation: How to Protect Your Permanent Magnet Motor Investment

B315 – Wednesday and Thursday, 2:00 p.m.

In many industries and applications, there is a shift towards permanent magnet motors (PMM) which offer energy savings, higher power densities, and improved control. PMMs can have increased upfront costs and need to be protected from damage when used with a VFD. Higher switching frequencies and fundamental frequencies present challenges in protecting the PMM. This session will explain the differences between an induction motor and a PMM, and how to best protect your PMM investment.

OG



## T49 Integration of Power Protection Devices on IEC 61850 Protocol to the Automation Control System

B315 – Wednesday and Thursday, 3:00 p.m.

The control of electrical power substations is becoming a more important automation discipline to address. In this session, we will discuss some key requirements of the application, with special focus on the use of the IEC-61850 protocol. We will also introduce a set of tools that have been developed to facilitate integration into our Logix control systems.

## T50 Tolomatic: Electric vs. Hydraulic Actuators: Pros and Cons of Each Technology

B316 – Wednesday and Thursday, 8:00 a.m.

This session will consider various factors affecting electric and hydraulic system performance and costs including: motion control capabilities; system components and footprint; force and speed capabilities; temperature; life and maintenance of devices; data collection; efficiency/utility costs; leaks and environmental concerns and other factors.



## T51 MagneMotion® and iTRAK®: Introduction to Independent Cart Technology

B316 – Wednesday and Thursday, 9:00 a.m.

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

AM OEM

## T52 PowerFlex® Drives and CENTERLINE® MCC Integration into Process Applications with PlantPax®

B316 – Wednesday and Thursday, 10:00 a.m.

Better and smarter information is key, and access to information is reliant on how your process control system integrates with smart devices. This session will highlight the premier integration experience of PlantPax® with our power control devices – including PowerFlex® drives and CENTERLINE® MCCs – and how this not only reduces your time and effort to get your system configured, but can provide operational benefits as well.

OG PP WW

## T53 Premier Integration for Machine Builders

B316 – Wednesday and Thursday, 11:00 a.m.

Enhance productivity by leveraging programming resources in Studio 5000® Logix Designer with PowerFlex® drives. Learn how you can reduce your engineering and design time with the use of motion instructions for PowerFlex® drives. Benefit from a common configuration and programming experience, Integrated Safety and a more coordinated and synchronized machine.

OEM

## T54 SCCR, Selectivity and Current Limiting Applications with Molded Case Circuit Breakers

B316 – Wednesday and Thursday, 1:00 p.m.

Learn how recent additions to the Molded Case Circuit Breaker family and support tools help you calculate the SCCR of a panel. Understand how additional selectivity data will minimize selection time.

OEM

## PROCESS SOLUTIONS

### T05 Introduction to Migrating Your Legacy DCS Systems

B309 – Wednesday and Thursday, 1:00 p.m.

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

CH FB LS OG PE TCE WW



## **T06 Central States Industrial (CSI): A Cleaner, Safer Processing Facility**



B309 – Wednesday and Thursday, 2:00 p.m.

With the Food Safety Modernization Act (FSMA) coming into full swing, processing facilities are needing to comply with CFR 21 for fully traceable and documented cleaning cycles. In this session, learn how CSI's CIP 2.0 uses Rockwell Automation® products to provide a CIP system that provides compliance, data for predictive maintenance, embedded IOM manuals and Plant PAX objects to provide a uniform operator interface across all CIP 2.0 systems. Additional features that are discussed will include S88 Compliant Programming methodology and ease of Skid Integration as part of a Rockwell Automation Connected Enterprise solution.

FB

## **T07 Batch: What's New and What's Next Including SequenceManager™**

B309 – Wednesday and Thursday, 3:00 p.m.

Explore the new features in the Batch portfolio focused on improving system design and operating effectiveness, such as SequenceManager™, FactoryTalk® Batch View Server™, and project delivery tools such as the Batch Application Toolkit. See the new features and improvements planned for FactoryTalk® Batch Version 13. Learn about the differentiation between our modern approach to scalable and distributed batch control compared to traditional systems.

CH FB LS OEM

## **T14 eRPortal Software Group, LLC: Downtime Tracking and Maintenance Management in a FactoryTalk® Environment**



B310 – Wednesday and Thursday, 3:00 p.m.

Using mobile technology and eRPortal's CMMS, integrated with FactoryTalk®, will demonstrate how using these connected applications increase maintenance efficiencies, increase manufacturing uptime, and more accurate downtime reporting. Integration with FactoryTalk® VantagePoint® and ProductionCentre® adds executive level visibility as well.

TCE WW

## **T33 What's New with PlantPAX® Process Control System**

B313 – Wednesday and Thursday, 1:00 p.m.

In this session, you will discover the latest release of features for the PlantPAX® Distributed Control System. Each new feature will be detailed in full including the benefits that this modern DCS exhibits compared to traditional DCS systems.

FB LS OG PE PP WW

## **T71 Endress+Hauser: Heartbeat Technology™ Monitor Device and Process Health 24/7**



B402 – Wednesday and Thursday, 2:00 p.m.

Next generation field instruments allow diagnostics, monitoring and verification functions to be seamlessly accessed via preferred integration with PlantPAX. Learn how Heartbeat Technology™ works for users to streamline diagnostics. See on-demand confirmation of operational reliability and in-situ verification without process interruption.

CH FB LS OEM OG PE PP TCE WW

## **T72 New Studio 5000® Features Simplify Integration of OEM Skid Equipment to Modern DCS (PlantPAX®)**

B402 – Wednesday and Thursday, 3:00 p.m.

As skid equipment comes together at the site, users seek faster startups, increased access to data, and maximum asset ROI. This session summarizes the latest release of Studio 5000® and the Rockwell Automation® Library of Process Objects® that reduce development time, simplify access to data, and minimize the effort to integrate skid equipment for manufacturers, system integrators, and equipment builders.

CH LS OEM WW

## **T73 Hardy Process Solutions: Premiere Integration for Weight Processing**



B403 – Wednesday and Thursday, 8:00 a.m.

Directly integrate your scales into your PLC/PAC. Learn to configure, calibrate, and visualize weight without writing any code. Premiere Integration for Weight Processing is REAL — we'll show you a LIVE demonstration using Rockwell Automation® integration tools! See how our AOPS, AOlS, and Faceplates lower integration and operating costs (OpEx).

OEM

## **T74 Process Safety and Critical Control: What Solution Best Meets Your Needs**

B403 – Wednesday and Thursday, 9:00 a.m.

Choosing the correct safety solution to meet availability and safety requirements is a critical decision. In this session, we'll explore our process safety offerings from SIL 1 through SIL 3 to fail-safe, fault-tolerant and triple modular redundant. We have a broad selection of scalable options ideal for your application. Learn which option is best for you and how each helps improve efficiencies and performance.

CH OEM OG PP

## **T75 Laird: Mobile Control of Fixed Assets**



B403 – Wednesday and Thursday, 10:00 a.m.

Production machinery for as long as it has been electrified has depended on a workforce dedicated to servicing the machine at fixed locations. This has led to the need for multiple line operators to tag team machines and often "pins" operators to fixed locations on a line. This restriction leads to operator fatigue, ergonomic issues, lowline efficiency and as a result, employee turnover. Discover how adding remote control to the line concept can improve each of these conditions and make plants more profitable.

AM TR

## **T76 Discovering the Functionality of Rockwell Automation® Library of Process Objects®**

B403 – Wednesday and Thursday, 11:00 a.m.

The Library of Process Objects is a key ingredient for providing rich PlantPAX® DCS functionality with reliable performance. This overview of the Library includes new features along with a demonstration of use cases for several of the objects. The Library objects' capabilities and typical applications will be reviewed along with features and benefits for users. Upcoming developments to the Library will be discussed along with an opportunity for your input.

OEM OG WW

## **T77 MYNAH Technologies LLC: Operator Training and Control System Testing Solved**



B403 – Wednesday and Thursday, 1:00 p.m.

Operator performance can have a surprising impact on plant profitability, however, traditional training methods are not sufficient. This presentation will explore and demonstrate a solution in the pulp and paper industry for hands-on operator training and control system testing using the Rockwell Software® Studio 5000® Logix Emulate™ for Operator Training along with Mimic Dynamic Simulation.

## **T78 Pepperl+Fuchs, Inc.: Introducing WirelessHART with EtherNet/IP**



B403 – Wednesday and Thursday, 2:00 p.m.

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

OEM

## T79 Phoenix Digital Corporation: Simplified Process Control Network Redundancy and Resiliency



B403 – Wednesday and Thursday, 3:00 p.m.

A redundant, resilient process control network is a critical backbone requirement in today's demanding continuous process applications. We will examine alternative ways to get N+2 resiliency without complexity, without software, without setup that is designed to be installed and maintained by the plant technician.

WW

## T80 RF IDEas, Inc.: Manage Operator Identification and Minimize Risk of Unauthorized Users



B404 – Wednesday and Thursday, 8:00 a.m.

In a demand-driven manufacturing environment, getting the job done quickly is tough when pushing operations to the limit. Learn how the adoption of badge-based authentication helps remove inefficiencies, increases safety, and enables granular Operator/Process/SKU reporting, driving towards meeting operational and organizational efficiency goals.

## T81 River Consulting LLC: Using PlantPax® in a High Performance HMI to Maximize Operator Effectiveness



B404 – Wednesday and Thursday, 9:00 a.m.

Review a successful application of PlantPax® faceplates, Add-On Instruction blocks and both ladder and function blocks to control a continuous sulfur melting process. The successful implementation includes an HMI design with a "High Performance" graphics scheme, rapid program development, custom faceplates using PlantPax® objects and testing.

## T82 SyTech Inc.: The Next Generation of Reports for Process Automation



B404 – Wednesday and Thursday, 10:00 a.m.

A reporting solution that gives you the information you need, in the form you want, with absolutely no programming. With XLReporter, you use Excel as your design studio, complete with an easy-to-follow template wizard. Your reports are ready within minutes as workbooks, web pages, encrypted PDF and email.

## SAFETY & COMPLIANCE

### T22 Arc Flash Hazards and Arc Resistant Equipment – Understanding Standards and Solutions

B312 – Wednesday and Thursday, 8:00 a.m.

Uncover the "how-to" of implementing arc resistant equipment within typical industrial or commercial facilities. This workshop offers insight into several practical aspects of procuring and applying arc resistant equipment including NFPA 70E highlights, arc flash basics, a review of arc resistant equipment including the PowerFlex®7000, and arc assessment services.

AM OEM OG TR

### T23 Concept Systems Inc: Collaborative Robotic Work Cells with Rockwell Automation® Safety Solutions



B312 – Wednesday and Thursday, 9:00 a.m.

In the world of collaborative robotic work cells, there are many ways to keep workers safe. In this session, learn which options are available and how to evaluate what is the best for your requirements. Concept Systems, a Rockwell Automation® Solution Provider, will present leading collaborative robotic solutions from FANUC and present methodologies for making standard robots "collaborative" with the use of Rockwell Automation® safety solutions.

AM

## T24 Improving Productivity Using Contemporary Safety Designs

B312 – Wednesday and Thursday, 10:00 a.m.

Contemporary safety standards and designs provide for both safety and improved productivity with alternative means to traditional lock out/tag out procedures. This session will review these techniques including safe speed monitoring, safe direction, zone control, and others, as well as system diagnostics that reduce downtime.

AM FB OEM TCE TR

## T25 Polytron Inc.: Safety Mitigation after Injury. Implementing Safety Systems for Compliance



B312 – Wednesday and Thursday, 11:00 a.m.

A look at how an injury on a high risk machine led the manufacturer to implement a safety system to reduce the risk on the machine to an acceptable level. Using the Rockwell Automation® safety design tools and safety devices, a seamless integration of a safety system was implemented.

AM TR

## T26 Improving Safety in The Connected Enterprise

B312 – Wednesday and Thursday, 1:00 p.m.

Improving both operational excellence and worker safety are paramount to addressing manufacturing risks. This session will discuss how safety issues can be identified by geography or machine type, operator behaviors can be addressed, and machinery safety compliance improved by utilizing data already available in your control system.

AM TCE TR

## T27 Ross Controls: Safety Automation Builder – A Pneumatic Safety Example



B312 – Wednesday and Thursday, 2:00 p.m.

In this session, we will use Safety Automation Builder to assemble a machine safety system that will include the pneumatic circuit. Two distinct circuits will demonstrate two pneumatic solutions integrated with the electrical safety control circuit. The results will include the functional safety data from SISTEMA.

OEM

## T28 Introduction to GuardLogix® Integrated Safety System

B312 – Wednesday and Thursday, 3:00 p.m.

In this session, you'll be introduced to the GuardLogix® Integrated Safety System, supporting intermediate level to complex safety applications – using a single controller and programming environment for safety, discrete, motion, and drive functions, and with secure, seamless connectivity to plant-wide information systems.

AM OEM TR

## T55 Reducing Safety System Development Time Using Safety Automation Builder

B316 – Wednesday and Thursday, 2:00 p.m.

You'll learn to reduce development time of machinery safety systems using the newly updated Safety Automation Builder configuration tool. Safety Automation Builder can now incorporate RASWin software to manage the entire safety lifecycle, facilitate system planning, help lay out safety hazards and access points, define safety functions, and create a bill of material.

AM OEM TR

## T56 Safety System Development and Configuration Tools Overview

B316 – Wednesday and Thursday, 3:00 p.m.

You'll learn to dramatically reduce safety system development time using the Rockwell Automation® suite of development tools. You'll be able to determine return on investment for safety projects, design safety functions and systems, select appropriate safety devices, and verify that your system meets global safety standards that are increasingly specified by manufacturers.

AM OEM TR

**T68 Introduction to Machinery Safety Application Design**

B402 – Wednesday and Thursday, 1:00 p.m.

Take the mystery out of machinery safety systems by designing an actual application utilizing the safety lifecycle. The process includes risk assessment, risk mitigation, component selection, functional requirements specification, circuit design and logic. Attendees will help design the circuit and perform verification testing via practical application of functional safety principles.

AM OEM TR

**SOLUTIONS & SERVICES****T34 Building a Highly Available Network**

B313 – Wednesday and Thursday, 2:00 p.m.

Does network trouble keep you running around, going out of your mind? Network performance is critical to the health of a process control system. Don't waste your time with poor designs that can bring you down. See demonstrations of multiple network architectures, failure modes and recovery methods.

AM OG PE TR

**T36 EPLAN Software & Services: Smart Wiring for Electrical Panel Design Engineering**

B314 – Wednesday and Thursday, 8:00 a.m.

EPLAN Software & Services have developed solutions for panel design component placement and wiring workflow optimization. The solution suite starts at the panel design and flows through to the panel shop floor, utilizing CNC technologies. The result is lower cost of panel manufacturing, reduction in scrap rates, a higher level of overall delivered quality and the ability to meet more demanding timelines.

AM TR

**T37 Get Ahead in the Cloud**

B314 – Wednesday and Thursday, 9:00 a.m.

The value of analytics is the ability to get ahead. Connect devices to enable secure remote access, get informed of asset performance, and analyze the data to get ahead. Whether you're looking to increase output, improve quality or reduce energy usage, find out how cloud technologies can help you improve operational performance.

AM TR

**T38 Step 1: How to Start your Modernization**

B314 – Wednesday and Thursday, 10:00 a.m.

Are you feeling overwhelmed at the thought of modernizing your plant? Find out how to take the first step and lay the foundation for future modernization. Learn how you can upgrade your current control system and build out your support program to ensure optimal operation for years to come.

AM CH OG PE PP TR

**T57 Asset Intelligence – Transforming the Value of Maintenance and Storeroom**

B401 – Wednesday and Thursday, 8:00 a.m.

Our world is moving faster with more information and work load than we can manage, so are you ready to get out of the chaos? Let's step through an MRO journey where you can act on Asset Intelligence to improve plant productivity; utilizing smart devices, reliability professionals and asset strategies.

AM TR

**T58 Relieving the Pain: Improved Modernization Methodologies**

B401 – Wednesday and Thursday, 9:00 a.m.

Modernizing your control systems to take advantage of The Connected Enterprise can be challenging. Prioritizing needs, adhering to schedules and maintaining production with limited CAPEX can create paralysis. This session focuses on prioritizing and executing phased modernization while mitigating product obsolescence risk for PLC-5®, DCS, MV drives and other legacy systems.

FB OG PE PP

**T83 Easing the Deployment of a Converged Plantwide Ethernet (CPwE) Compliant Architecture**

B404 – Wednesday and Thursday, 11:00 a.m.

Learn how pre-engineered IT/OT networking packages can speed transition, reduce the risk and minimize the support burden of network and virtualization infrastructure that is required to enable The Connected Enterprise. This lecture includes an overview of the Converged Plantwide Ethernet (CPwE) design guidelines demonstrates new pre-engineered CPwE-compliant packages that help simplify industrial network infrastructure design and deployment.

AM FB TR

**T84 Reduce Cost Overruns and Project Delays through a FEED and MAC Approach**

B404 – Wednesday and Thursday, 1:00 p.m.

MAC is more than just a bundle of instrumentation, automation and electrical products. In field implementations, results indicate that our FEED/MAC approach produces time savings of 10-15% and cost reductions of 4-8% versus a traditional EPC process.

CH LS OG PP

**T85 Serialization and Aggregation: Tackling Data Deluge**

B404 – Wednesday and Thursday, 2:00 p.m.

There are three key challenge areas to achieving an interoperable serialization system – line integration, data optimization and system integration. After attending, you will understand why Rockwell Automation® Unit, Line and Site Controllers are trusted to be the pillars of an integrated Serialization system for end users, OEMs and contract packagers.

AM LS OEM

**T86 The Right Recipe – End-To-End Solutions to Support Your Food Safety Programs**

B404 – Wednesday and Thursday, 3:00 p.m.

In America alone, contaminated food sickens tens of millions, hospitalizes hundreds of thousands and even kills 3000 people per year. Recommit your operation to food safety with our five-step recipe for success. Learn how information-enabled technologies and automation can address safety and productivity concerns simultaneously.

FB

**SYSTEM****T35 Increase Software Development Efficiency Using Integrated Architecture® Application Tools**

B313 – Wednesday and Thursday, 3:00 p.m.

Learn about new and existing Integrated Architecture® tools that can help speed implementation of your control system in all phases of the project. From videos to manuals to simple software applications, these tools help you understand, plan, and configure an Integrated Architecture® System.

AM OEM TCE TR

**T39 Cisco Systems: Digital Manufacturing Solutions in Practice**

B314 – Wednesday and Thursday, 11:00 a.m.

See how Cisco Systems solutions have been applied at real manufacturing customers around the world to improve asset availability, performance, and quality. Understand the customer challenges experienced with real case studies, and how they were overcome to achieve outstanding business outcomes. Converged Plantwide Ethernet (CPwE), Connected Factory, Factory Wireless and other solutions will be covered with real customer results.

AM TCE TR



## T40 Maximize Savings, Minimize Downtime with Energy Management

B314 – Wednesday and Thursday, 1:00 p.m.

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

AM FB LS OG PP TCE TR WW

## T64 Dialight: Connectivity for Allen-Bradley® PLCs to Improve Efficiency

B402 – Wednesday and Thursday, 8:00 a.m.

The world has seen many connected industrial devices through Rockwell Automation®. It is time to connect LED lights to the Rockwell Automation® environment for enhanced lighting efficiency and to dramatically reduce energy costs.



## T65 High Performance Architecture: Introduction and Demonstration

B402 – Wednesday and Thursday, 9:00 a.m.

This session will introduce and demonstrate the capabilities of our new high performance architecture. Learn how to achieve significant performance improvements with the recent additions to our controller, networks, I/O and motion portfolios.

AM OEM TR WW

## T66 ProSoft Technology: Extending Logix Applications for Power and Energy Management Projects

B402 – Wednesday and Thursday, 10:00 a.m.

Power and energy management applications oftentimes require specialty protocols not natively supported in the Logix platform. For applications involving substations or load-shedding, ProSoft Technology has solutions that extend your Logix system's capability to protocols including DNP3, IEC 61850, and Modbus®. Find out how we can help in this session.

AM TR WW



## T67 What's New in Studio 5000®

B402 – Wednesday and Thursday, 11:00 a.m.

Attend this session to learn about Rockwell Software® Studio 5000®, our new automation engineering and design environment. The session will cover what Studio 5000® is, where it is going, and how it can help reduce your engineering time, reduce risk, and increase your productivity.

AM CH FB LS OEM TR

## T87 Softing (OLDI): OPC UA Modules for ControlLogix® Systems

B408 – Wednesday and Thursday, 8:00 a.m.

OPC UA provides industry-specific capabilities and vendor interoperability for ControlLogix® systems. This session will cover the status of OPC UA and applications with ControlLogix®.

AM TCE TR



## T88 Selecting the Right Safety System for Your Application

B408 – Wednesday and Thursday, 9:00 a.m.

Come to this session to see the advances in Integrated safety and the different system levels that can be implemented using Rockwell Automation® products and solutions with our PartnerNetwork™.

AM OEM TR

## THE CONNECTED ENTERPRISE

### T41 Surviving the Workforce Skill Gap Challenge of the Digital World

B314 – Wednesday and Thursday, 2:00 p.m.

The real challenge moving forward to a Connected Enterprise is finding qualified staff to design, deploy and maintain the collaborative industrial network infrastructure required. Today's engineers need to understand advanced networking and information technologies. Come learn about new tools that will help you develop these skills and become a more valued resource for your organization.

AM CH OG PETCE TR

### T42 Kepware Technologies: How Do I Decide? Communication Protocols for IoT and Industry

B314 – Wednesday and Thursday, 3:00 p.m.

This session explores the open standards and protocols connecting the Internet of Things with industry. It details the pros and cons of the request/response and publish/subscribe methods, and describes why use cases determine which method or protocol best suits your needs.

AM TCE TR



### T59 Develop a Secure Infrastructure for The Connected Enterprise

B401 – Wednesday and Thursday, 10:00 a.m.

New innovative technologies like cloud, and new service models like remote monitoring are becoming important for improving operational efficiency. They require an architecture that is scalable, robust, safe, secure and future-ready. In this session, you'll learn about the architectural security framework and solutions to help improve the availability, integrity and confidentiality of the architecture.

AM OEM TCE TR





## **T60 Matrix Technologies Inc.: Using The Connected Enterprise to Implement Water Savings**

B401 – Wednesday and Thursday, 11:00 a.m.

Morgan Foods, a private label brands manufacturer, and Matrix Technologies, Inc., a Rockwell Automation® Solution Provider, used the integrated software and control platform on a production line to identify excess water usage that caused fines from the local municipality. The solution resulted in money and energy savings.

**TCE**

## **T61 The Importance of Standards in Smart Manufacturing and The Connected Enterprise**

B401 – Wednesday and Thursday, 1:00 p.m.

It's difficult to imagine a world without standards. Following standards helps simplify selection and deployment of products, and promotes seamless interoperability among devices used in manufacturing systems. In this session, you'll learn about some of the industry standards that will impact us all as we drive to a Connected Enterprise.

**AM OEM TCE TR**

## **T62 MECCO: Track-and-Trace Solutions for The Connected Enterprise**

B401 – Wednesday and Thursday, 2:00 p.m.

Real-time manufacturing data, containment control, and part authenticity are all aided by connecting information throughout the factory. This session will explore how to achieve this optimized productivity by combining The Connected Enterprise with part traceability to tie every part manufactured to its machine and operator while error-proofing the process.

**AM FB LS TCE**

## **T63 Developing Machines for the Fourth Industrial Revolution**

B401 – Wednesday and Thursday, 3:00 p.m.

Challenged meeting global customer and industry expectations? As organizations realize the value of a Connected Enterprise, they look for partners that add value beyond just machines or equipment. In this session, learn how three key areas can help your journey to a Smart Machine addressing your customer's needs and increasing your value.

**OEM TCE**

## **T89 OSIsoft, LLC: Operational Data Infrastructure for The Connected Enterprise**

B408 – Wednesday and Thursday, 10:00 a.m.

Enterprise data infrastructure uses FactoryTalk® Historian Site Edition (SE) software from Rockwell Software® and the PI System from OSIsoft. The combination provides visibility of real time and historical production data across a company's integrated supply chain. The integrated Rockwell Software® and OSIsoft infrastructure brings together the best of industrial and enterprise data management. The solution seamlessly leverages a company's existing investments at a plant and enterprise level, pulls in information from all assets and conditions data for high value business analytic purposes.

**AM CH TCE TR**

## **T90 Innovative Network Infrastructure and Security Solutions for The Connected Enterprise**

B408 – Wednesday and Thursday, 11:00 a.m.

Challenged with lack of in plant support, servers sprawl, obsolete systems and high costs for maintaining the server infrastructure? Learn ways to manage your network infrastructure, software and cybersecurity. Leverage technology and scalable services to monitor the network, manage software, perform patch management and back up, and manage user accesses and authorization.

**AM TCE TR WW**



## **T91 Panduit Corp.: Industrial Network Building Blocks, Cabling, and Connectivity**

B408 – Wednesday and Thursday, 1:00 p.m.

This session highlights the evolution of the Converged Plantwide Ethernet (CPwE) architecture incorporating the importance of the physical network infrastructure including building blocks, cabling, and connectivity. The recently released validated design by Cisco Systems and Rockwell Automation®, Deploying a Resilient CPwE Architecture, includes best practices and implementation considerations from Panduit to help bridge the gap between the logical and physical network architecture.

**AM OEM TCE TR**



## **T92 New Technology Innovations to Improve Operations Management and Efficiencies**

B408 – Wednesday and Thursday, 2:00 p.m.

Technologies are creating an environment that allows you to see production status and better manage global operations, gain insight into usage patterns from operators, materials, equipment, enabling improved performance, and the foresight for predictive maintenance to minimize failures and unscheduled downtime. Learn about solutions to help you achieve better results and drive increased profitability.

**AM CH FB LS OG PE TCE TR WW**

## **T93 Spectrum Controls Inc.: Proven Solutions for Remote Monitoring of Automation Systems**

B408 – Wednesday and Thursday, 3:00 p.m.

Monitor and manage your system from anywhere in the world via The Connected Enterprise. This session will highlight WebPort remote connectivity technology and the impacted to total cost of ownership, minimized down time and provided enhanced diagnostics using your existing Rockwell Software® tools.

**AM OEM TCE TR WW**



## **T94 Turning Data into Profit\$**

B409 – Wednesday and Thursday, 8:00 a.m.

Heard about The Connected Enterprise and the importance of big data and analytics? Do you know how to turn data into information that can improve productivity, reduce costs, and increase efficiencies? In this session, we'll show you the intelligent software needed and how it can help you on your journey to a Connected Enterprise.

**AM OEM TCE TR**

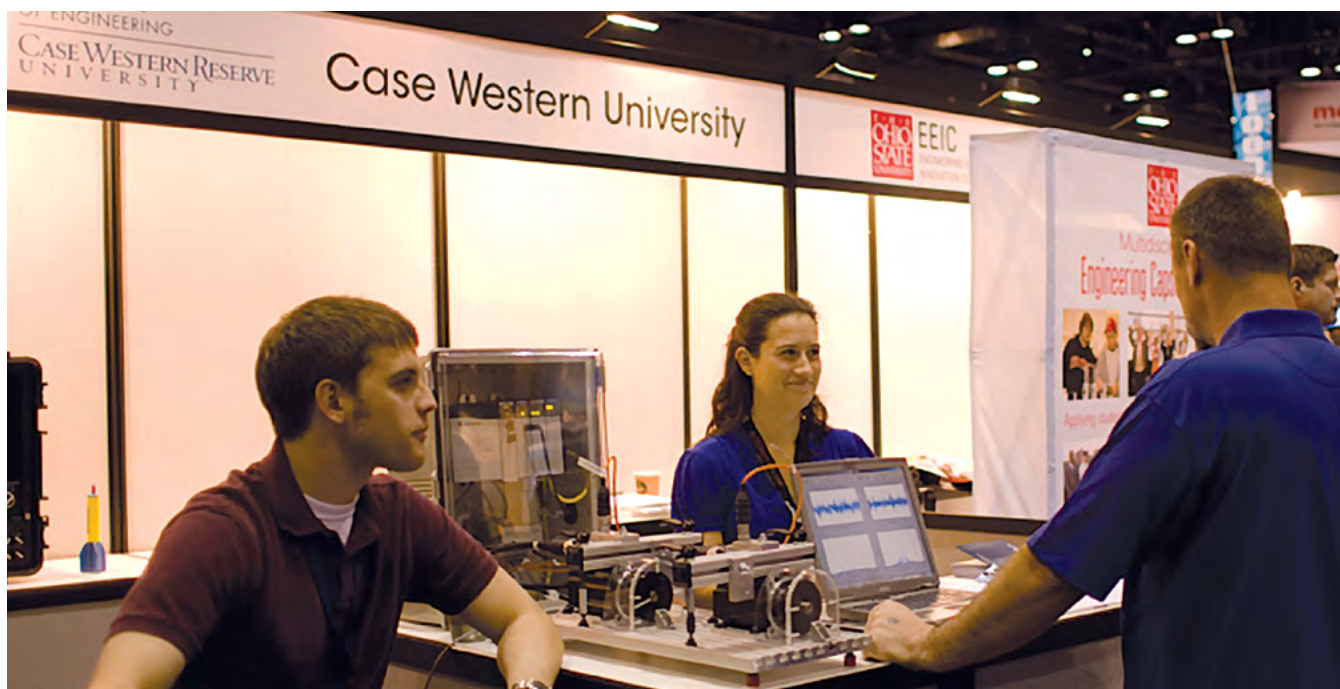
## **T95 Stratus Technologies: Virtualization for The Connected Enterprise**

B409 – Wednesday and Thursday, 9:00 a.m.

Moving toward a Connected Enterprise requires deploying sophisticated software solutions where production assets are located. Virtualization can help make deployment and support of these applications much easier. Learn about virtualization and how best to implement it outside the datacenter to support your journey to a Connected Enterprise.

**AM TCE TR**





## UNIVERSITY RELATIONS

Rockwell Automation provides value by offering a broad range of partnering opportunities. The University Relations program is an extension of our partnerships, where relationships are built with selected universities that offer engineering, business and technology curriculums. Students gain exposure to Rockwell Automation technology and its application, helping them become better candidates for future jobs in industry. During the Automation Fair® event, students get to see a wide variety of products and technology, and attendees can learn more about the degree programs offered by many of the universities.

### CURRENT SCHOOLS IN THE ROCKWELL AUTOMATION UNIVERSITY RELATIONS PROGRAM:

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

Stop by our showcasing schools at the Automation Fair® event.



## ENGINEERING OUR FUTURE™

### BOOTH 359

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

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

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

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

Visit our booth to learn more about the programs we support – maybe it'll give you ideas on how to start a program at your company. Also, watch and interact with local students showcasing their *FIRST* robots.

### BOOTH HIGHLIGHTS

- Learn more about our STEM strategy and the programs we support
- Interact with local students showcasing *FIRST* robots
- Join us on Wednesday, Nov. 9 at 1:30 p.m. for a special announcement
- Visit us daily at 10 a.m. and 2 p.m. to hear from Jay Flores, Rockwell Automation STEM Ambassador
- Receive a FREE virtual reality viewer\*

\*Limited quantity; only being distributed at certain times of the day.



# SAVE THE DATES



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