

# **POWERING COLLABORATION**

**FOR USERS, BY USERS**

***Your Invitation  
to Register***

For more information, visit:

**[EmersonExchange.org/Americas](http://EmersonExchange.org/Americas)**

**October 2–6, 2017**  
Minneapolis, MN, USA



# Conference Topics and Curriculum

**Emerson Global Users Exchange** offers a unique opportunity for automation professionals to engage with their peers, broaden their knowledge base and gain valuable insight from industry leaders on the latest tips and tricks, implementation successes and proven project solutions being used throughout process automation.

More than 350 sessions are planned this year, covering a wide range of industry- and technology-specific topics. Whether you're looking to improve energy efficiency, meet new regulatory requirements, increase yields,

boost reliability or simply improve your facility's bottom line, there's an array of pertinent sessions from which to choose.

You can start building your personalized conference curriculum by selecting from the list of session options. Below are *sample agendas* for just a few of our prospective attendee interests. As a registered attendee, you'll be able to tailor and schedule your curriculum to your specific interests and needs with the **myExchange** scheduler.\* (available online and through the mobile app after August 1)

## Sample conference agendas selected from this year's session topics:

INSTRUMENTATION ENGINEER	
Forums	
<ul style="list-style-type: none"> <li>IF-15370: Chemical Industry Forum</li> </ul>	
Certified Training	
<ul style="list-style-type: none"> <li>EDU-15432: Control Valve Sizing, Selection and Noise Prediction for Conventional and Non-Standard Process Applications</li> <li>EDU-15446: Pressure Transmitter Fundamentals – How to Specify, Install, Commission, and Maintain</li> <li>EDU-15455: Wireless Level Solutions and Advanced Diagnostics</li> </ul>	
Workshops	
<ul style="list-style-type: none"> <li>1-15110: Online Diagnosis and Health Monitoring of a Compressors Valves</li> <li>2-14519: Rethinking Diagnostic Functions in Pressure Transmitters</li> <li>2-14565: Increase 0.42% Availability of Stream Cracker with Diagnostic of Instruments, Wireless Technology &amp; AMS</li> <li>3-14792: Device Alerts — Finally! An Emerson Solution for Installed Base Users</li> <li>4-14828: Partial Stroke and Valve Signature Test Data for On/Off Valves</li> <li>6-15132: Improving Well Pad Efficiencies and Reducing CAPEX By Up to 50% Via Modular Multiphase Metering</li> </ul>	
Meet the Experts	
<ul style="list-style-type: none"> <li>MTE-15479: Rosemount Instrumentation: Best Practices and Common Mistakes</li> <li>MTE-15470: AMS Asset Management Solutions Tips &amp; Tricks</li> </ul>	
Meetings	
<ul style="list-style-type: none"> <li>Oct. 3, 5:00pm: Visit Radar Level Application Booth in Exhibit Hall</li> <li>Oct. 4, 5:00pm: Last Night in Exhibit Hall — Last Chance to See the Technology</li> </ul>	
Notes	
<ul style="list-style-type: none"> <li>Sign Up Early for Educational Services Courses</li> <li>Check Out <b>myExchange</b> for More Workshops</li> <li>Download Mobile App</li> </ul>	

PROCESS ENGINEER	
Forums	
<ul style="list-style-type: none"> <li>IF-15372: Life Sciences / Pharmaceuticals Industry Forum</li> </ul>	
Certified Training	
<ul style="list-style-type: none"> <li>EDU-15435: DeltaV Cybersecurity</li> <li>EDU-15441: Energy Management Strategies for Process Plants</li> </ul>	
Workshops	
<ul style="list-style-type: none"> <li>1-15080: Exxon Partners with Emerson to Build First Modular, Smart Blending Plant in Asia</li> <li>3-14745: Connecting the Dots: How Safety Impacts Operational Excellence</li> <li>1-15191: Using a Streamlining Analysis Workflow to Explore and Visualize Your Data</li> <li>3-14852: Continuous Manufacturing for Pharmaceutical Products</li> <li>3-14678: Rompetrol Saves Millions with Emerson In-Line Fuel Blending Solution</li> <li>3-14553: Gas Lift Optimization Application Increases Crude Oil Production</li> </ul>	
Meet the Experts	
<ul style="list-style-type: none"> <li>MTE-15482: Safety Instrumented Systems Tips &amp; Tricks</li> <li>MTE-15484: Tips &amp; Tricks for DeltaV Operate</li> </ul>	
Meetings	
<ul style="list-style-type: none"> <li>Oct. 2, 5:00pm: Get Hands-on Demos of Applications to Improve Safety, Reliability and Efficiency During Exhibits</li> </ul>	
Notes	
<ul style="list-style-type: none"> <li>Enroll in Educational Services Courses</li> <li>Plan Daily Agenda with <b>myExchange</b></li> <li>Check Out Meet the Experts Sessions on Thursday Morning</li> </ul>	

RELIABILITY MANAGER	
Forums	
<ul style="list-style-type: none"> <li>IF-15371: Engineering Industry Forum</li> </ul>	
Certified Training	
<ul style="list-style-type: none"> <li>EDU-15448: Reliability Awareness</li> <li>EDU-15454: Visualizing Machinery Vibration</li> </ul>	
Workshops	
<ul style="list-style-type: none"> <li>2-14889: PeakVue — Outside the Box: It's Not Just for Roller Bearings and Gears</li> <li>2-15010: Vibration Monitoring and Control in Conveyor Belts Ensure Perfect Operation in Peru</li> <li>2-15097: Reciprocating Compressor Monitoring with a 2140 and a Dynamic Pressure Sensor</li> <li>3-14578: Ultrasonic vs. Peakvue: Comparison on Slow, Noisy Critical Assets. And the Winner Is...</li> <li>3-14618: Lubrizol's Chicago-area Grease Production Glides into Automation with a Slick Emerson Team</li> <li>3-15166: Replacing a GE3300 at a 250MW Combined Cycle Power Plant</li> <li>3-15178: 400 MW Steam Turbine Gets a New AMS 6500 Full Prediction and Protection System</li> </ul>	
Meet the Experts	
<ul style="list-style-type: none"> <li>MTE-15472: Nail a Speech, Launch a Career</li> <li>MTE-15477: Selecting Material to Improve Process Equipment Reliability</li> </ul>	
Meetings	
<ul style="list-style-type: none"> <li>Oct. 2 &amp; 3, 7:00am: Meet with Other Reliability Managers for Breakfast</li> <li>Oct. 4, 4:00pm: Visit with ARES SMEs to Discuss Plant Reliability Initiatives</li> </ul>	
Notes	
<ul style="list-style-type: none"> <li>Need to Enroll Early for Educational Services Courses</li> <li>Use <b>myExchange</b> to Plan Week/Sessions</li> <li>List Questions for Emerson's Reliability Experts</li> </ul>	

Agenda and conference content are based on abstracts of presentations approved and scheduled at press time. Curriculum offerings are subject to change and/or cancellation prior to or during the conference.

For a complete list of presentation topics and conference information, visit:

**[EmersonExchange.org/Americas](http://EmersonExchange.org/Americas)**

Register online, then use the **myExchange** scheduler tool to plan your agenda!

*\*(Mobile app and myExchange will be available after August 1. Registered attendees will receive notification when available.)*



# What Is the Emerson Global Users Exchange?

*Emerson Global Users Exchange is more than just a technical conference. It's a platform where professionals from all areas of process automation can come to share ideas, collaborate on solutions and learn from subject matter experts about how to extract the most from an automation investment.*

## For Users, By Users

Emerson Exchange is a community run by users, for the benefit of users, and is designed to accelerate the learning of both novice and experienced professionals from every area of your organization — including those outside of the control systems and instrumentation disciplines.

Content covered at Exchange spans a broad range of topics and is intended to help users more effectively harness the capabilities of digital automation to improve the performance of their facilities. Emerson experts are part of the user community and participate by answering questions, providing guidance and bringing valuable user feedback to the Emerson organization.

## Who Runs The Exchange?

The Exchange is run by a 19-person Board of Directors comprised of users, Emerson employees and local business partners. The Board's charter includes managing the Emerson Global Users Exchange community, and developing and producing a world-class annual global conference.

***"This has been a wonderful experience overall. Worth every minute of my time... Great value for the dollar."***

— Keith St. Thomas,  
Nanaimo Forest Products

## 2017 Keynote Speaker: Robyn Benincasa

*Founder of World Class Teams, Robyn is a world champion adventure racer, a CNN Hero, former corporate sales expert and a full-time firefighter who advises organizations on building World Class Teams of their own.*

*One of the highest rated female speakers who regularly shares the stage with world leaders and business icons, Robyn's customers include many Fortune companies like Starbucks, Deloitte, Aflac, Fast Company, Boeing, Lockheed Martin, ARAMARK, 3M Company, Coldwell Banker, Ameriprise, Microsoft and AT&T. With her background, Robyn definitely knows a thing or two about creating Human Synergy — "that magic that allows groups of ordinary people to accomplish extraordinary things together." Her New York Times best-selling book "How Winning Works", published by Harlequin, has been reviewed as "an excellent resource for all business owners on approaching challenges with a team mentality."*



## Chairman's Message

### Welcome to the 2017 Emerson Global Users Exchange Americas!

*This year's conference will be extra special for me personally. Minneapolis is my home town. I live and work less than 20 miles from the convention center where this conference is being held. As a user of many Emerson products and services over the years, I have always looked forward to this conference. Whether it is problem solving, knowledge building or renewing relationships, this conference has it all. Once again, we had an exceptional turnout of submitted abstracts. Your contributions and feedback help direct the Board, and drive the Exchange conference content, which makes the overall experience so rewarding. On behalf of the Board, I want to express my sincere gratitude for every abstract submittal, and I applaud the quantity, breadth and quality of submissions this year.*

*The theme of this year's Exchange is **Powering Collaboration**, and with hundreds of sessions to choose from, this Exchange is sure to deliver on that theme. **Workshops and Short Courses** provide opportunities to learn about new technologies, hear how users are solving problems and get the solutions you need. Attend **Industry Forums** or **Technology Roundtables** to discuss the latest trends or current issues. Listen to **Product Roadmap** sessions and hear about the future of Emerson products and services. Speak to product experts at the **Technology Exhibits**, network with users and take a class from **Emerson Educational Services** (at no additional cost) to earn Continuing Education Units.*

*This year we moved the **Meet the Experts** sessions to dedicated time slots on Thursday and Friday mornings to allow for more flexibility to connect with these industry leaders. Also on Friday, there is an option to sign up for a tour of the new state-of-the-art **Rosemount Shakopee facility** and the **Interactive Plant Environment (IPE) Education Center**.*



*Registration opens June 1, so please plan to join me in Minneapolis, Minnesota this October 2–6 and prepare for **Powering Collaboration!***

*See you there!*

*Sincerely,*

*Rob Sentz*

*Rob Sentz, Chairman  
Emerson Global Users Exchange Board of Directors*

# POWERING COLLABORATION

# Conference Sessions and Features

With an immersive curriculum made up of Workshops, Short Courses, Educational Services Courses, Industry Forums, Technology Exhibits and Technology Roundtables, the Exchange offers users a chance to share ideas and experiences, troubleshoot problems and learn how to leverage automation investments far beyond the simple cost of their implementation.

## Earn CEUs from Emerson Educational Services

Enhance your professional capabilities with complimentary training and education courses which focus on prevalent industry technologies and skill sets. Emerson Educational Services will offer 30 courses as part of the conference curriculum, a \$475 to \$700 value each, if taken independently. Continuing Education Units (CEUs) will be awarded for all course completions.

NOTE: Availability is limited. Reserve a seat using the **myExchange** scheduling tool. (Available online after August 1 at: [EmersonExchange.org/Americas](http://EmersonExchange.org/Americas)).

Session ID	Title
EDU-15429	Approaches to Large Well Pad Automation
EDU-15430	Blended Learning: FIELDVUE™ Digital Valve Controller Using Valvelink
EDU-15431	Changes to Partial Stroke Testing and the Related Evaluation Criteria
EDU-15432	Control Valve Sizing, Selection and Noise Prediction for Conventional and Non-Standard Process Applications
EDU-15433	Coriolis Installation Best Practices & Smart Meter Verification
EDU-15434	Custody and Fiscal Transfer — Challenges, Technology Selection, Issues and Remedies
EDU-15435	DeltaV Cybersecurity
EDU-15436	DeltaV MPC
EDU-15437	DeltaV Simulate
EDU-15438	DeltaV SIS
EDU-15439	DeltaV Virtualization
EDU-15440	DP Flow Measurement Fundamentals — Basics and Utilizing New Technologies
EDU-15441	Energy Management Strategies for Process Plants
EDU-15442	Introducing the FB Flow Computer
EDU-15443	Learning Lab
EDU-15444	Achieving Top Quartile Performance
EDU-15445	Practical Loop Tuning Using Lambda Tuning Method
EDU-15446	Pressure Transmitter Fundamentals — How to Specify, Install, Commission, and Maintain
EDU-15447	Produced Fluids Management and Well Optimization
EDU-15448	Reliability Awareness
EDU-15449	Solids Measurement Technologies
EDU-15450	Tank Management — Understanding the Dos, Don'ts and Standards Behind Tank Pressure Control and Overfill Prevention
EDU-15451	Temperature Fundamentals & New Products Available from Emerson
EDU-15452	The Asset Performance Model (APM) Connecting Asset: Reliability, Performance Modeling, Failure Hierarchy and Technology
EDU-15453	Valve Sizing and Selection for Severe and Critical Service
EDU-15454	Visualizing Machinery Vibration
EDU-15455	Wireless Level Solutions and Advanced Diagnostics
EDU-15456	Interactive Plant Environment: Higher Performance Through Best Practices**
EDU-15457	Interactive Plant Environment: Commissioning & Loop Checking Wireless Devices**
EDU-15458	Interactive Plant Environment: Valve Troubleshooting with Valvelink™ Software**

NOTE: Educational Services CEU courses listed with "\*" will be held at the Rosemount facility, not at the Convention Center.

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## Industry Forums

What are the latest trends driving the market? How will new regulations impact the operation of my facility? What technologies can I implement to enhance process visibility? You'll find the answers to these questions and many more by attending 90-minute sessions of your choosing.

Industries represented will include:

- **Chemicals** (Industrial, Specialty)
- **Engineering** (OEMs, E&Cs, Integrators)
- **Life Sciences/Pharmaceuticals**
- **Oil & Gas**
- **Metals & Mining**
- **Pulp & Paper**
- **Refining & Petrochemicals**

## Technology Roundtables

Keep up with the latest advancements in process automation. Learn how industry leaders are applying state-of-the-art technologies to optimize facility operation. Discuss emerging trends, current use cases and practical issues with industry experts and peers.

Session ID	Title
TR-15349	Industrial Internet of Things
TR-15350	Cybersecurity
TR-15351	Getting the Most Out of a Virtualization Infrastructure
TR-15352	Reliability Programs of the Year: Technology & Best Practices
TR-15353	Control with Wireless

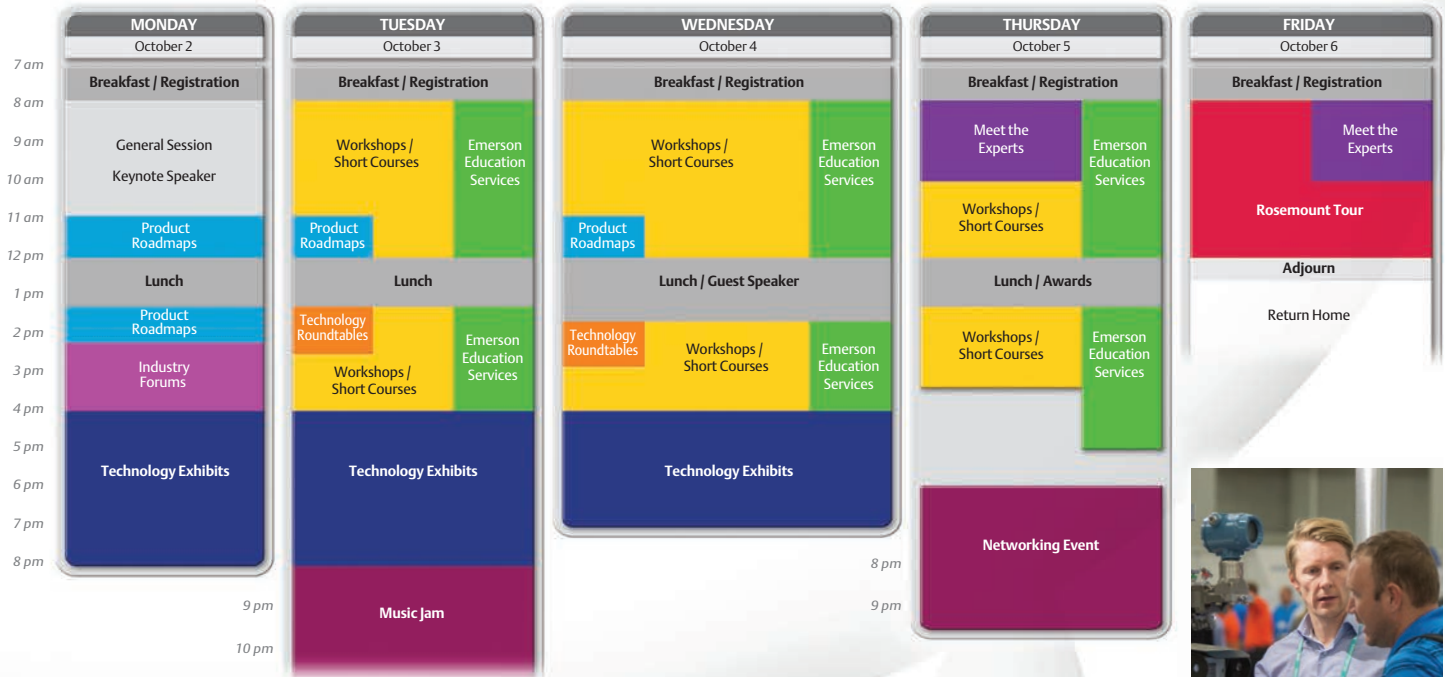
## Meet the Experts

After you've had time to take in all of the new technology offerings in the week's content sessions, round out your experience with practical working sessions focused on common issues your operations face and the solutions you can take back with you and apply. **Now on Thursday and Friday mornings!**

Meet, learn from and get to know the "Experts Behind the Technologies" in one of several sessions below:

Session ID	Title
MTE-15469	Alarm Management Tips & Tricks
MTE-15470	AMS Asset Management Solutions Tips & Tricks
MTE-15471	Backup and Recovery of DeltaV
MTE-15472	Nail a Speech, Launch a Career
MTE-15473	DeltaV Configuration Standards & PCSD
MTE-15474	DeltaV DCS Tips & Tricks
MTE-15475	Justifying a Control System Upgrade
MTE-15477	Selecting Material to Improve Process Equipment Reliability
MTE-15478	Selecting the Right Flowmeter
MTE-15479	Rosemount Instrumentation: Best Practices and Common Mistakes
MTE-15480	Process Control Optimization
MTE-15481	Reducing CAPEX and OPEX Cost through Well Pad Optimization
MTE-15482	Safety Instrumented Systems Tips & Tricks
MTE-15483	Support and Maintenance of DeltaV
MTE-15484	Tips & Tricks for DeltaV Operate
MTE-15485	Valve Health Tips & Tricks
MTE-15486	Wireless Tips & Tricks

# Conference Schedule (tentative)



## Technology Exhibits

Get “hands on” with cutting-edge technologies, experience live demonstrations and talk with the subject matter experts behind Emerson’s products and solutions, as well as products from complementary vendors.

Brands like **Rosemount, Fisher, Micro Motion, DeltaV, Bettis, Ovation, ASCO and Appleton**, plus strategic third parties, will make up a comprehensive collection of the latest and greatest automation technology solutions — all in one place in a highly interactive format.

## Networking

In addition to learning from process automation leaders, Emerson Exchange serves as an ideal platform for users to network and make valuable business connections. Throughout the conference, you’ll have the opportunity to meet face-to-face with experts, speak directly with the people behind the technologies and interact with peers from every corner of the industry.

Join your peers on the gridiron for Thursday evening’s Networking Event at the Home of Superbowl LII — **US Bank Stadium**. Enjoy a backstage tour of the locker rooms, kick back in the field level lounge or get out on Vikings field to show off your skills. Don’t miss this one-of-a-kind networking opportunity!

If you enjoy live music, join us Tuesday night at **The Pourhouse** as we celebrate the musical talents of the Exchange community during our annual **Music Jam**. In addition to the two morning **Fun Runs**, we will also have relaxing **Yoga** sessions on Tuesday and Thursday mornings at the Hyatt gym. Check **myExchange** to add these to your schedule!

## 2017 Registration

### Full Conference

<b>Special Early Bird Registration</b> (June 1 – August 15) .....	<b>\$995*</b>
<b>Discounted Advanced Registration</b> (August 16 – September 15) .....	<b>\$1,195</b>
<b>Regular Registration</b> (September 16 – October 6).....	<b>\$1,395</b>

### Partial Conference

<b>One-Day Registration</b> .....	<b>\$450</b>
<b>Two-Day Registration</b> .....	<b>\$800</b>
<b>Three-Day Registration</b> .....	<b>\$1,200</b>
<b>Guest Registration</b> Spouse/family of registered attendee (includes meals, exhibits and social events) .....	<b>\$150</b>

Registration includes admission to all conference workshops, courses and exhibitions, certified training, meals, exhibition reception and networking events.

\* For the special Early Bird Registration rate, conference attendees agree to stay at one of the four conference host hotels (**Hyatt Regency, Hilton Minneapolis, Millennium Hotel, Marriott City Center**). Local Minneapolis residents are exempt from this agreement.



For a complete list of presentation topics, visit: **EmersonExchange.org/Americas**  
Register online, then use the **myExchange** scheduler tool to plan your sessions!  
*(Available online after August 1)*



# Emerson's Rosemount World Headquarters Tour

Join us for an exclusive visit to the new global headquarters for Emerson's Rosemount products in Shakopee, Minnesota. Get an insider view of the new, state-of-the-art manufacturing facility and see Emerson quality processes first-hand.

With over 200,000 square feet of manufacturing space and 300,000 square feet of engineering, design, training and support — global quality and manufacturing sync up to produce world-class products.



## Hotel Information

With the exception of the Rosemount HQ tour and three specific Rosemount Education Services courses, all Emerson Exchange events — including registration, Cyber Café, group meals, all sessions and technology exhibits — will take place at the Minneapolis Convention Center. Parking information can be found on the Emerson Exchange website on the “Hotel Information” page. Room blocks have been secured at these hotels: **Hyatt Regency, Hilton Minneapolis, Millennium Hotel, Marriott City Center.** Conference attendees staying at these hotels may take advantage of the special **Early Bird** reduced conference registration fee.

Rooms at the above hotels may be reserved by conference attendees on a first available basis until Friday, September 1, 2017. You must register for the conference first before booking a hotel room in the conference block.

Hotel information can be found at: [EmersonExchange.org/Americas/Hotels](http://EmersonExchange.org/Americas/Hotels)

## 2017 Emerson Exchange Board of Directors

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*“I was very impressed with the conference on the whole. Extremely well done.”*

— Bob Davis, Zellstoff Celgar Ltd.

**POWERING  
COLLABORATION**

