



Agenda

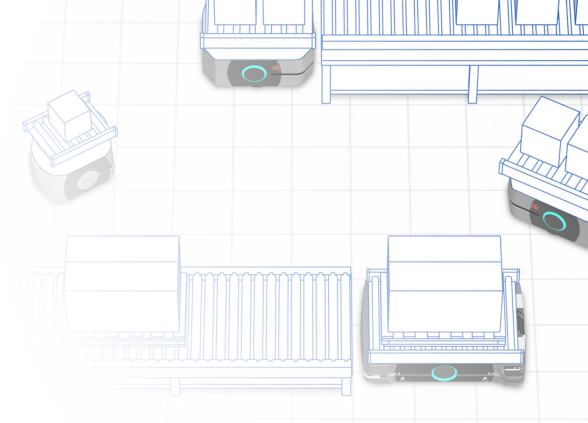
Location

Omron Chicago Proof of Concept Center
 2895 Greenspoint Parkway, Hoffman Estates, IL 60169

Registration Opens 8:00 AM

Omron Opening Reception 8:30 AM

Time	Live Session	Virtual Session	PoCC Tour
8:45 AM	Chicago Keynote		
9:30 AM	The Evolution of Traceability	Investing in Manufacturing Performance & Operational Resilience (Aveva)	
10:00 AM	Building a Robust Data Acquisition System	Critical Trends in Industry Standards and Best Practices	
10:30 AM		Creating a Collaborative and Adaptive Workplace	
11:00 AM	Cyber Security		
11:30 AM			PoCC Group Tour
12:15 PM	Lunch		
1:00 PM		Improve Flexibility and Adaptability with Built-in Safety	
1:45 PM	Planning for Tomorrow, Today [Advice to future-proof your architecture]		
2:15 PM			PoCC Group Tour
3:15 PM	Solving challenging problems with new motion control technologies	The Future of Industry - Logistics	
4:00 PM	Innovative-Automation [A guiding concept for technology development, shaping our future]	The Intersection of Interoperability	
4:30 PM	Cocktail Reception		



PoCC Demos and Technical Experts

Omron PoCC and Technical experts are **available throughout the event**. Visit the live demonstrations at your convenience to learn more about our innovative automation solutions.

Demo	Description
Complete Sysmac Platform Solutions	The System platform provides powerful complete automation solution with high-performance, flexible, open architecture using one software for control, safety, motion, vision and robotics.
One Total Solution Provider	The ILO+S (Input, Logic, Output, + Safety) display shows examples of Omron's comprehensive portfolio of products and technologies that can be used to help solve the most demanding applications.
Integrated Multi-Robot Demo	Advanced and high-performance Sysmac robotics functionality integrated in the NJ machine controller fully operates 3 robots for high-speed, multi-robot PnP with integrated vision and safety.
Delta Linear PnP Demo	Demonstrate the power of Sysmac for custom kinematics, advanced motion, linear and rotary servo in integrated solution with vision and safety.
Vision Rotary Demo	Our vision rotary demonstrates a wide variety of Omron's code reading and smart camera products functioning with Omron Automation control and component products.
Panel Builder Demo	Our value design for panel concept guides the development of control panel products that reduce time and labor costs, power consumption and control cabinet size.
Traceability Demo	Omron provides a complete solution suite for traceability, including marking, verification, reading and communication.
FH 3D and TM Robot Bin Picking	Omron's new FH 3D vision system, paired with the Omron TM cobot, demonstrates quick, precise 3D robotic bin picking. Easily integrate FH 3D vision technology with a variety of robots.
SCARA Cell Demo	The SCARA robot cell highlights Omron's integrated controller, FH Vision guidance and flexible feeding with flexible parts feeding.
Hornet Cell Demo	The Hornet fixed robot cell highlights Omron's delta robot technology, vision guidance conveyor tracking capabilities and packaging software expertise.
Quattro Cell Demo	The Quattro fixed robot cell highlights Omron's fastest fixed robot, vision guidance and conveyor tracking capabilities and Omron's total automation solution.
Viper Cell Demo	Fully integrated control, software architecture and development environment meet current and future needs for process design, flexible operation and predictable maintenance.
Machine Safety Solutions	Omron's comprehensive lineup of machine safety components provides everything you need to protect your team with full integration for every part of your automation system.
NC Tabletop Demo	The NC integrated controller provides both NC and PLC functionality and synchronizes all devices at high speed, significantly reducing the machine cycle time.
SCARA Demo	Our newest SCARA, integrated with our IPC application controller, provides a cost-effective powerful robotics solution for a variety of automation applications.
Advanced Safety Servo Demo	The advanced 1S Series servo drive can improve not only equipment safety but also production efficiency by shortening production facility downtime.
Servo with Motion Safety and Advanced Safety Networks	The 1SA servo with motion safety functions and Omron's advanced safety networks protect machine operators and equipment, reduce machine downtime, minimize cost and wiring complexity.
AI Controller Demo	The AI Controller is able to identify abnormal machine behavior without being explicitly programmed to do so using models generated from data.
Autonomous Mobile Robot (AMR) Fleet	Omron mobile robots are self-navigating AMRs designed to dynamically move material in challenging dynamic environments - requiring no facility modifications.
Mobile Robot Simulation Service Automation Inspection Systems	SPI, AOI and AXI. Suitable for a wide variety of SMT applications, Omron's automated inspection solutions are designed to ensure highest degree of quality and consistency in PCB production.

Presentation Abstracts

Omron OPEN 2022 features over 20 industry relevant sessions across four locations. Interested in a topic not available at your location? We have you covered. As schedules permit, sessions will be live-streamed throughout all locations and all sessions will be available on-demand, post show.

In addition, our Proof of Concept Centers are open throughout the event, featuring interactive demos for a more in-depth look at technologies that span sensing, control, safety, vision, motion and robotics.

We invite you to explore, learn and be inspired. Come share our passion for innovation as we strive to pursue the ideal in automation – where people and machines work together in harmony.

LIVE in Chicago

The Evolution of Traceability

[Building a fundamental strategy for success in next-generation manufacturing]

Speaker: Eric Henefeld; Director – Traceability Business, Omron

Join us as we focus on the internal justification for traceability and the benefits of implementation, as well as relevant externally imposed regulatory requirements. This session will also explore the evolution of traceability and explain why the latest generation of traceability implementations, which we at OMRON refer to as “Traceability 4.0,” is not just about tracking products and components. It is also about optimizing productivity and quality by tying process, equipment, material and even operator data to the tracked product ID.

During this session we will take a high-level view of track-and-trace and address some key discussion points:

- WHY is traceability important?
- WHAT value does traceability offer to my organization?
- HOW can I implement a complete traceability solution and make it an integral part of my digital transformation strategy?

Building a Robust Data Acquisition System

[A cost competitive solution for improved data collection]

Speaker: Ulises Vich; System Architecture Manager, Omron – Chicago

Data acquisition systems are imperative for industries looking to increase productivity and achieve operational resilience. Ensuring visibility into critical asset performance is key to enabling real-time decision making, helping to drive the highest level of operational efficiency. However, not all data acquisition systems are created equally. Systems have grown in sophistication over the years, placing an onerous burden on information technology professionals and operational technology engineers alike. During this presentation we will explore various solutions as it relates to cost, compatibility and functionality. We will introduce the SQL kit. A simple, secure solution that eliminates the need for PC based systems or middleware.

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LIVE in Chicago

Planning for Tomorrow, Today

[Advice to future-proof your architecture]

Speaker: Paul Anderson; Technical manager - Americas application engineering, Omron

Technology is evolving ever faster, making it harder for manufacturers to decide when and how to implement automation. The challenge for the plant floor is implementing automation that makes the best use of current technology, while still being flexible enough to plan for future developments. We will discuss how automation trends are influencing automation decisions, and we will discuss how to make automation architecture decisions today with an eye towards flexibility for tomorrow.

Motion Control: Solving challenging problems with new motion control technologies

Speaker: Greg Dieck; Product Manager, Omron

Manufacturers worldwide are struggling to ensure profitability and keep up with rising demand amid an onslaught of challenges. These include environmental and sustainability issues and the need to accommodate product variations with flexible systems. This presentation explores the ways in which the latest motion control solutions can help address these challenges. The combination of new components, development tools, and other technologies with deep expertise in motion control can transform a sluggish factory into one that is flexible, agile, and ready to deliver the most complicated market demands.

Cyber Security

Speaker: Doug Browne; Technology Development Engineering Manager, Omron

Discussion of current state of cyber-security in the industry and how customers can address securing legacy equipment that use insecure protocols.

Innovative Automation

[A guiding concept for technology development, shaping our future]

Speaker: Mike Chen; Sr. Director – Solutions & Technology Development, Omron

The Omron innovative-Automation concept is reflected in the global evolutionary steps toward a future society where people optimize their manufacturing and human productivity by leveraging more collaborative and data-driven technologies to solve business problems. During this presentation, we will connect the Omron SF2030 strategic plan to near-future and practical solutions that customers should expect to see from Omron over the next decade.

The Robot Industry Podcast Live Recording

Speaker: Join Jim Beretta, host of The Robot Industry Podcast, heard in over 60 countries

Jim will be onsite, interviewing industry experts for podcasts to be aired at a later date.

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LIVE in Dallas

Investing in Manufacturing Performance & Operational Resilience

[Learn how to drive Operational Excellence by optimizing people, processes & assets]

Speaker: Fabio Terezinho; Head of Global OEM Sales - Aveva

The COVID-19 pandemic amplified global supply chain challenges that were already lurking below the surface of the industry worldwide, causing revolutionary disruption and triggering rapid change. This has drastically impacted the operational practices of manufacturers and processors, driving companies to accelerate their digital transformation journeys to respond in real-time to these abrupt market changes and become more agile, productive, and operationally resilient.

Manufacturers and processors must seek to achieve Operational Excellence by continuing to accelerate their digital transformation, leveraging a common digital thread from engineering to operations that uses performance intelligence to improve agility, reliability, and efficiency building operational resilience and sustainability.

Improve Flexibility and Adaptability with Built-in Safety

[Turn your customers' demands into your industry differentiator]

Speaker: Rex Keihl; TUV Rheinland Functional Safety Expert, Omron

Industrial machine safeguarding discussions tend to highlight the latest hazard-mitigating gadget instead of exploring new manufacturing processes that have safety built in. Omron has a commitment to integrating safety into core processing units to help our customers adapt to rapidly evolving factory processes. Manufacturers can take advantage of fenceless, Sysmac-based safeguarding solutions that exceed risk assessment requirements while minimizing setup and maintenance time in a dynamic factory environment. Imagine being able to generate your own safety code at the touch of a button while also having direct access to a database in Sequel Server for data analytics.

The Evolution of Traceability

[Building a fundamental strategy for success in next-generation manufacturing]

Speaker: Jason Mack; Sales Manager – Advanced Sensing, Omron

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LIVE in Dallas

The Importance of Vision in Automation

Speaker: Ryan Marti; Product Manager, Omron

Over the past decade the scope of vision within automation has expanded and become one of the most important elements in modern automation. Engineers now have another set of eyes within their applications that cannot only record what is happening, but also analyze, detect, and create better efficiency within products.

In this session we will discuss the history of vision within automation, look at current trends in the industries and the implications these trends have on the future of Vision. We will also look at how Vision can help solve problems within automation, smart manufacturing, and the general benefits of utilizing vision in your applications. To finish off we will discuss the usage of Vision alongside robotics, how vision can help solve unpredictable problems, and what vision technologies are leading the way.

Motion Control: Solving challenging problems with new motion control technologies

Speaker: Atef Massoud; Manager, Automation Center Americas, Omron
Richard Naddaf; Applications Engineering Manager, Delta Tau

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The Intersection of Interoperability

Speaker: Kyle Hable; Group Product Manager, Omron Robotics and Safety Technologies, Omron Robotic Technologies

Discover how mobile robots have been and continue to play a pivotal role in the 4th industrial revolution. And the current challenges that have arisen around intersection management and increasing congestion on the factory floor.

Take away: Catch up on the history of autonomous mobile robots navigating their way into the factory and the challenges that lie ahead as they continue crossing the chasm towards mass-market adoption.

Building a Robust Data Acquisition System

[A cost competitive solution for improved data collection]

Speaker: Ed Allen; Field Application Engineer, Omron

Data acquisition systems are imperative for industries looking to increase productivity and achieve operational resilience. Ensuring visibility into critical asset performance is key to enabling real-time decision making, helping to drive the highest level of operational efficiency. However, not all data acquisition systems are created equally. Systems have grown in sophistication over the years, placing an onerous burden on information technology professionals and operational technology engineers alike. During this presentation we will explore various solutions as it relates to cost, compatibility and functionality. We will introduce the SQL kit. A simple, secure solution that eliminates the need for PC based systems or middleware.

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LIVE in Dallas

The Future of Industry Semiconductor

Speaker: Aurelio Delgado; Industry Marketing Manager, Omron

The Semiconductor industry has been in the news on a weekly basis the past two years due to chip shortages. There has been major initiatives such as the CHIPS Act to promote in-house manufacturing. As a result trends such as labor shortage, adoption of AI, and increased manufacturing costs are directly impacting chip makers. We will discuss how industrial automation can help address some of the challenges generated by these latest trends and also improve overall manufacturing.

The Future of Industry Logistics

Speaker: Yaqing Sun; Strategic Account Manager, Omron

Logistics industry is changing rapidly to meet with consumers' demands for fast and low delivery. This presentation focuses on key development trends in logistics automation industry and discusses how technologies, such as advanced vision, robotics, sensing, can come together to better assist human operators' work in warehouse environment.

Featured example applications in this presentation: mixed-sku palletizing and de-palletizing; item picking; tunnel scanning; etc.

LIVE in Cincinnati

The Evolution of Traceability

[Building a fundamental strategy for success in next-generation manufacturing]

Speaker: TBD

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LIVE in Cincinnati

Creating a Collaborative and Adaptive Workplace

[The path towards harmony between people and machine]

Speaker: Mark Noschang; Robotics Engineering Supervisor, Omron

Harmony between humans and machines will revolutionize the workplace. The nature of work today is far from ideal. Sixty percent of work-related health problems are due to musculoskeletal disorders, while stress, depression, and anxiety collectively count for another 16 percent. What if we could eliminate these issues — which cost employers around \$2.4 billion a year due to employee absence — by replacing onerous manual activities with autonomous and collaborative processes? By laying the foundation for harmony between humans and machines, Omron is creating a future in which workers are empowered, fulfilled, and able to use their full creativity.

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Building a Robust Data Acquisition System

[A cost competitive solution for improved data collection]

Speaker: Trent Christopher; System Architecture Engineer, Omron

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Improve Flexibility and Adaptability with Built in Safety

[Turn your customers' demands into your industry differentiator]

Speaker: Mohammed El-Najji; TUV Rheinland functional safety engineer, Omron

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LIVE in Cincinnati

How to Stand Out in the Life Sciences Industry: Evolve to Elevate

Speaker: Laura Studwell; Industry Marketing Manager, Omron

New technologies and emerging trends are disrupting the life sciences industry – putting the industry on the cusp of change. While this change does give rise to some challenges, it throws open the doors for new opportunities and possibilities. In order to capitalize on these opportunities, life sciences companies must focus on understanding the biggest drivers and trends and adopt new solutions to gain value. Accelerate your brand in the life sciences industry.

Critical Trends in Industry Standards and Best Practices

Speaker: Dr. Bryan Griffen; Sr. Director, Industry Services PMMI – The Association for Packaging and Processing Technologies

Are you up to date on the latest trends in industry standards? If you're a player in the packaging and consumer goods processing industry, there are standards behind almost every initiative you undertake at your facility. From B155.1, ISO 13849-1, ISO 24158-1 and ANSI Z244.1 to R15.06/08 and many more, these are the technical standards driving the adoption of technology and technical services. Join our expert from PMMI for an indepth look at these standards and including ISA TR88.00.02 and the associated remote access series being driven by OMAC (Organization for Machine Automation Control).

Join the organization that leads the packaging and consumer goods processing industry for recommendations on best practices surrounding TCO, RFP, FAT, CIP, OEE and more. And with a deeper dive, the best practices for cyber security, IT/OT convergence as well as a service visit roadmap established in conjunction with some of the top companies in the industry. Join the discussion and learn what you can do to start implementing best practices and moving forward with your operational initiatives.

LIVE in Detroit

The Evolution of Traceability

[Building a fundamental strategy for success in next-generation manufacturing]

Speaker: John Agapakis; Director – Traceability Product Management, Omron

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LIVE in Detroit

Building a Robust Data Acquisition System

[A cost competitive solution for improved data collection]

Speaker: Mark Knight; Field Application Engineer, Omron

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Workforce challenges: The next generation of technical employees

Speaker: Samir Rawashdeh, Ph.D.; Associate Professor Electrical and Computer Engineering, University of Michigan - Dearborn

As advancements in industrial automation technology continue to significantly alter the Industry 4.0 landscape, the need to adjust curriculum for the next generation in the workforce is critical. Learn about the changes University of Michigan – Dearborn is implementing to meet this growing demand and how Omron is aiding them along the way.

Automation Alley U.S. Centre for Advanced Manufacturing

Speaker: Tom Kelly; Executive Director and CEO
Pavan Muzumdar; Chief Operating Officer

The rapid pace of technological change coupled with geopolitical, climate, and supply chain disruptions has created an urgency for manufacturers across the globe to adopt advanced manufacturing technologies and practices to remain competitive. Learn about the initiatives Automation Alley, a World Economic Forum Advanced Manufacturing Hub (AMHUB) for North America and a nonprofit Industry 4.0 knowledge center with a global outlook and a regional focus, is leading around the future of manufacturing operations, workforce development, changing consumer demands, sustainability and much more. You will also hear about the recent launch of the U.S. Centre for Advanced Manufacturing in Michigan through Automation Alley partnership with the World Economic Forum.

Maintaining ISO Compliance: How Code Revisions Can Impact Your Business

Speaker: Bruce Main, Design Safety Engineering

With proposed modification to the Machinery Directive and opening up the ISO 12100 for a revision, minor changes could impact hundreds, if not thousands of other ISO standards, and this can affect your compliance.

- Learn what standard committees consider, so minor changes to the standards do not have a major impact on your operations.
- Gain insight to additional information available in equivalent ANSI and CSA standards.
- Discover how standards adapt and are developed for new technology