Siemens and Electro-Matic invite you to join over 3,500 manufacturing executives, engineers and enthusiasts at Manufacturing in America 2020 in Detroit, MI inside Ford Field. Learn about the newest technologies, share best practices and ideas, and be a part of advancing the future of manufacturing.

#MiA20 will feature The Summit, over 100 technical learning seminars, and 50 exhibits focused on emerging automation, digitalization, controls, and drives technology with this evolving industry.

Seminar spaces fill quickly on a first-come, first-serve basis so act fast to reserve your seats in the free technical seminars you wish to attend!

Register Online at AttendMiA.com

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PARKING
Validated parking passes can be downloaded on attendmia.com to be printed or presented via the app to the parking lot attendant.

HOTEL
Manufacturing in America has partnered with Greektown Casino-Hotel for a discounted rate* for attendees that require accommodations.

*Limited Availability. Check attendmia.com for more information.
Throughout the event, Managers from all of the participating companies are available along with conference room space for one-on-one meetings. If you have specific project requirements that need to be reviewed please contact an Account Representative to schedule a meeting.
Join Siemens and innovation thought leaders at our annual Manufacturing in America Summit to learn more about how you can realize your digital transformation. Experience thought-provoking presentations, discussions, and best practice sharing with leading experts in manufacturing, economy, technology, and innovation.

Our key focus for the MiA Summit is the digitalization ecosystem - demonstrating how the manufacturing ecosystem is evolving and benefiting from digitalization. Speakers from the end user, tier supplier, line builder and machine builder perspective, will discuss the impact of the growing industrial digital ecosystem of connected, data-driven and automated technologies.

KEYNOTE SPEAKER

**DR. BRIAN ANTHONY**

Dr. Brian Anthony is Director of MIT’s Master of Engineering in Manufacturing Program, Co-Director of the Medical Electronic Device Realization Center, and Deputy Director for the MIT Skoltech Initiative. Dr. Anthony has over 20 years of experience in product realization. He won an Emmy from the Academy of Television Arts and Sciences in broadcast technical innovation. He designs instruments and techniques to monitor and control physical systems. His work involves systems analysis and design and calling upon mechanical, electrical, and optical engineering, along with computer science and optimization, to create solutions.

The focus of Dr. Anthony’s research is in computational instrumentation—the design of instruments and techniques to measure and control complex physical systems. His research includes the development of instrumentation and measurement solutions for manufacturing systems and medical diagnostics and imaging systems. In addition to his academic work, he has extensive experience in market-driven technology innovation, product realization, and business entrepreneurship and commercialization at the intersection between information technology and advanced manufacturing. His teaching interests include the modeling of large-scale systems in a wide variety of decision-making domains and the development of optimization algorithms and software for analyzing and designing such systems. He has extensive experience in market driven technology innovation as well as business entrepreneurship.
FOOD, BEVERAGE, & CPG EXPERIENCE

DIGITALIZATION IS REVOLUTIONIZING FOOD & BEVERAGE MANUFACTURING

This year’s MiA will include our third Food and Beverage customized experience, featuring F&B-focused seminars, a private networking event and the highlight: the F&B Futures Forum, featuring some of the industry’s most influential voices. Join us to learn about the newest technologies, share best practices and ideas, and be a part of advancing the future of F&B manufacturing.

WEDNESDAY

9:00am - 12:30pm
The Summit
Hall of Legends

1:00pm - 2:50pm
DF-1
Food, Beverage, and CPG Futures Forum
Gridiron Club
This exclusive forum will feature a moderated panel of industry experts gathered to explore the future in Food and Beverage manufacturing. This year’s topic will focus on Artificial Intelligence and machine learning are offering new capabilities to save the food and beverage industry time and money. Join this session for a unique opportunity to share best practices, explore new technology, and discuss the outlook for Digitalization in Food and Beverage.

3:00pm - 3:50pm
DF-2
Accelerating Adaptability in F&B Manufacturing
Visitors Locker Room

4:00pm - 7:00pm
Networking Reception
West Atrium

THURSDAY

9:00am - 9:50am
DF-4
Benefits of Artificial Intelligence in Manufacturing
Hall of Legends 2

10:00am - 10:50am
DF-5
Leveraging Edge Computing
Hall of Legends 2

11:00am - 11:50am
DF-6
Virtual Commissioning for Machine and Line Builders
Hall of Legends 2

1:00pm - 1:50pm
FA-3
Innovations in the TIA Portal Engineering Network
Hall of Legends 2

2:00pm - 2:50pm
DF-3
Siemens Trusted Reliability with Blockchain
Lions Post-Game Interview Room

3:00pm - 3:50pm
DF-2
Accelerating Adaptability in F&B Manufacturing
Visitors Locker Room
DIGITALIZATION ZONE


TECH ZONE

Take advantage of this exclusive, hands-on opportunity to experience first-hand how the Siemens Digital Enterprise compliments Modernization for Smart Manufacturing. The Tech Zone is open all day, where you can test-drive common engineering tasks on Siemens hardware and software products including: Factory Automation, Motion Control, Control Products, Industrial Networking, and Mindsphere.

STUDENT ZONE

Ford Field’s Gridiron Club will host Manufacturing in America’s 5th annual Student Zone where 9th through 12th grade students invited from Oakland, Macomb, and Wayne counties will participate in educational and hands-on workshops with manufacturing equipment to experience what an exciting career in manufacturing is all about.

NETWORKING RECEPTION

4:00p - 7:00p  •  WEDNESDAY  •  WEST ATRIUM

Join us Wednesday evening in the West Atrium for our annual Networking Reception featuring live music from Acoustic Madness (sponsored by Intec Automated). Beverages and hors d’oeuvres are provided.

TOURS & FIELDGOAL KICKING

12:00p - 5:00p  •  BOTH DAYS  •  FORD FIELD TURF

Take a guided tour of Ford Field followed by getting your kicks in on the field for a 35-yard field goal attempt! (Just be sure to stretch first.) Meet at the field entrance between Sections 103 and 104 on the Adams St. Concourse at the top of every hour.

FREETHROW SHOOTING

ALL DAY  •  BOTH DAYS  •  2nd FLOOR of WEST ATRIUM

Bring your best shots to our Free Throw Shooting Contest! This timed contest takes place over both days of the event and gives you the opportunity to win some great prizes!

CLOSEST TO THE PIN

ALL DAY  •  BOTH DAYS  •  2nd FLOOR of WEST ATRIUM

Get back into the swing of things with a chance to win free golf lessons from the Golf Leadership Academy by winning our Closest to the Pin contest!
REALIZE YOUR DIGITAL TRANSFORMATION NOW

Digitalization is already changing all areas of life and existing business models. It is enabling industry to implement its product ideas by taking advantage of technology trends such as generative design and intelligent models. Production has become more innovative through additive manufacturing and advanced robotics, and new service models are being developed with the use of cloud solutions and knowledge automation.

Reduce the Time to Market
Manufacturing companies want to get their products to market faster – and at the same time master the increasing complexity of their products and production methods.

Boost Flexibility
The increasing trend toward individualized products demands precise and flexible manufacturing methods.

Boost Efficiency
In today’s world, not only does the product have to be sustainable and environmentally friendly; energy efficient production has become an increasingly important competitive advantage.

Improve Quality
Quality is essential if you want satisfied customers – and digitalization lets you begin manufacturing at top quality right away.

Increased Security
Multi-level security measures to counter cyber-attacks are necessary to protect a company’s intellectual property, both now and into the future.

A HOLISTIC APPROACH
The Digital Enterprise Suite consistently and digitally links all phases and process steps, all the way to the suppliers. In each phase, a digital twin is created that feeds back new findings from simulations and tests, which can then be used for continuous optimization. This allows enterprises to begin at any point in their value chain, from product design to service, and extend digitalization gradually in line with their current needs – including existing system solutions.

MINDSPHERE: THE CLOUD-BASED, OPEN IOT OPERATING SYSTEM
MindSphere makes it possible to analyze the performance of manufacturing plants and products and report back all findings to the entire value chain for continuous optimization. MindSphere collects data from the real world, adding a statistical data model to the analytical model of the digital twin. Comparison of both models can be used for continuous improvements.
In the next five years, U.S. manufacturers expect to increase their investment in digital technologies to 4.7% of revenue—for an estimated $350 billion in investments in digital operation technologies across automotive, industrial production and manufacturing industries alone.

However, manufacturers face challenges on their digital journeys. Additive manufacturing, automated machines, and other technologies—are transforming physical production. Increased connectivity and data gathering and analytics capabilities enabled by IoT, AI and Edge will revolutionize how factories operate.

All of this enables smarter supply chains, manufacturing processes, and end-to-end manufacturing ecosystems.

**Digital Twin Product**
The product digital twin comprises the product design as well as virtual, system-oriented product development. This enables complex products to be designed, simulated, and validated, multiphysic simulation, electronic design automation and software management – across domains with no need for physical prototypes.

**Digital Twin Production**
The digital planning, simulation, and optimization of the production with automatic generation of the PLC code creates the production digital twin. The co-simulation of mechatronics and automation results in a holistic simulation model that serves as the foundation for virtual commissioning.

**Digital Twin Performance**
In the real world, the digital twin of the performance is constantly fed with data from the product and the production facilities, which leads to new insights. Thanks to the connection with integrated automation components, the shop floor provides all relevant data. Feeding back all insights into the entire value chain via MindSphere – right back to product design – generates a fully closed decision-making loop for the continuous optimization of the production and product in the real world.
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Integrated's Miniature Plastic Molding (MPM) machines are available in pneumatic, hydraulic or electric models, with either plunger or reciprocating screw type plasticized systems and are ideal for low-quantity production runs, cable overmolding, and prototyping.

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Kourtney Rogus • (248) 866-8030 • kourtney.rogus@comau.com
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ACE provides process control engineering and system integration support to plant, engineering, facilities, and project management. ACE can provide site engineering support - working as a project team member or consultant, or ACE can provide complete turnkey project installation and startup services - including system design, fabrication and life cycle documentation. ACE services a broad range of industries, and provides services from the plant floor to process data integration with ERP Systems.

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Automate Canada is a not-for-profit association representing the industrial automate sector of Canada.

Our mission is to promote and develop the global exposure of the Canadian automation industry, by providing a voice of advocacy, and initiatives to increase innovation and business success for the member companies within the association.

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Claroty's mission is to protect industrial control systems (ICS) and networks from cyberattacks; ensuring safe and continuous operation of the world's most critical infrastructures. With Claroty, customers avoid costly downtime and enjoy the benefits of connected control systems without compromising the safety and security of personnel or expensive industrial assets.

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**Control System Integrators Association (CSIA)**

The Control System Integrators Association (CSIA) is a non-profit, professional association with a mission to advance the control system integration industry for the benefit of our members and their clients. Through business Best Practices, training and networking, CSIA strives to improve the business capabilities of its members.

Lisa Richter • (847) 420-8172 • industrydir@controlsys.org

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Ted Brunk  •  (413) 686-4192  •  tedb@quabbin.com

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Kayla Camps  •  (255) 391-2993  •  kayla@madeinamerica.com

Motion Index Drives, Inc.

We believe in perfecting the automation process through engineering high precision rotary index tables and precision indexing machines. We have always been dedicated to customizing and engineering our rotary indexers to meet your application needs. As a result, Motion Index Drives has been chosen as a single source on many projects because of our unmatched reliability and flawless operation. We design every product we make with special attention to safety, quality, versatility and value.

Benedict Talan  •  (586) 549-7434  •  bt1@mid.us.com

MadeInAmerica.com, Inc. is a CSIA Certified control systems integrator offering turnkey integration services: From designing and building new automation systems; to upgrading and retrofitting antiquated systems; to the design and implementation of asset tracking, artificial intelligence, and industry 4.0/ IIOT. Our services include project management, electrical engineering, simulation, process improvements, software development, installation support, documentation, and training.

Steve Palmgren  •  (800) 852-0994  •  spalmgren@pattieng.com

PAR Systems LLC

PaR Systems, a portfolio company of the Pohlad companies, is a leader in advanced production technology solutions for critical material handling, automation, and robotic applications that drive customer quality, safety, and productivity. Since 1961, PaR has created fully integrated systems, often first-of-a-kind manufacturing solutions. Our ExpertOperator Crane Controls - Anti-Sway, AutoMove, SafeMove, CraneVision systems provide safe operation and improved productivity of crane operations.

Kristi Olson  •  (651) 846-3003  •  kolson@par.com

Quabbin Wire & Cable Inc.

Quabbin Wire & Cable Inc. has been manufacturing in America the highest quality wire & cable products since 1975. In addition to a full line of electronic cables, Quabbin specializes in designing and manufacturing the most durable harsh environment Ethernet and Profinet cables that are available. These products are used and sold to and thru the worlds largest automation companies solving the most difficult challenges that factory and process automation companies need to overcome.

Ted Brunk  •  (413) 686-4192  •  tedb@quabbin.com
scoutbee

scoutbee’s software enables procurement users to quickly identify and onboard new global suppliers while also consolidating existing suppliers, to reduce risks, optimize supplier relations, cut costs and make more intelligent buying decisions. Powered by AI, scoutbee aggregates and analyzes big data across online and offline data sources, across the globe and your supply chain, providing deep data insights, from certifications to multi-tier relationships to financial, diversity & economic data.

Softing Inc.

Softing Inc. is the leader in Data Exchange solutions and Industrial Network Diagnostics offering tools for troubleshooting/monitoring Profinet, Ethernet and Profieldus networks. Our Data Exchange solutions include software and hardware appliances for OPC-UA and databases (Oracle & Microsoft SQL), and connectivity devices for Profinet, EtherNet/IP and Profinet.

Staubli

As one of the leading manufacturers of quick connector systems, Staubli covers connection needs for all types of fluids, gases and electrical power. These standard or specific products – including single and multiple connectors, tool changers and quick mold change systems – combine performance, quality, safety, dependability and durability. With a workforce of over 5500, Stäubli has a presence in 29 countries and agents in 50 countries around the world.

Stober Drives

Stober has an 86 year history of manufacturing high precision gearing and electro-mechanical product world wide, to meet the needs for the global power transmission and motion control automation markets. Stober provides a wide breadth of the highest quality gearing, servo and rack & pinion products that exceed the harshest and most demanding application requirements. Our goal is to be the Gold Standard for our OEM and User customer by exceeding all expectations.

Te.Co. Tecnologia Commerciale S.p.A.

Headquartered in Bologna (Italy), TE.CO. was founded in 1982 on the entrepreneurial idea of an added value customer service. It means strong commitment to provide cable solutions, cut to size, available on stock and best fulfilling the evolving market demands. A continuous growth allowed the company to become a leading, reliable business partner supplying special cables for industrial automation to international dealers, OEM’s, cable assemblies makers, panel builders, system integrators.

Technifor

Technifor is a global market leader in permanent marking and traceability solutions. Technifor has a full range of permanent marking technologies (Laser, Micro-Percussion and scribe) and a strong global footprint to meet your needs. As a brand of the Gravotech group, Technifor has global coverage in over 100 countries worldwide. A global leader in engraving and permanent marking, Gravotech integrates the complexity of your needs into easy-to-use solutions.
Telit

World-class, pure-play IoT brand delivering innovative technology to connect & manage practically anything, anywhere. Deploy your IoT solution with any architecture that works best for your needs. You get complete flexibility to configure around your existing systems, even if those systems vary from facility to facility across a global enterprise.

Anthony Pawlak  •  (248) 499-0814  •  anthony.pawlak@motoman.com

Trutegra

Trutegra is a unique systems integrator with a special focus on Crane and Hoist applications across all industries. Lifting and positioning applications are at the core of our expertise. Automation of Cranes and Hoists requires a special expertise in a variety of safety, design, mechanical, and operation considerations. This is where Trutegra excels above others. We provide automation for existing systems, upgrades of old technology, and turnkey installations of new equipment and controls.

Mike Martin  •  (704) 641-2516  •  mmartin@trutegra.com

TSUBAKI - KABELSCHLEPP

For more than 60 years Tsubaki KabelSchlepp™ has been developing and providing products to handle industrial cable management needs in the toughest of applications. Such innovation has resulted in industry specific developments of our cable carriers for a variety of industry segments, such as machine tool, port and cranes, medical and laboratory technology, oil and gas, industrial robots, and even space travel. Delivering a cable carrier that perfectly fits the requirements of end-users.

Camille Angluben  •  (847) 353-0351  •  camilleangluben@ustsubaki.com

Varjo

Varjo makes human-eye resolution VR and XR products that help professionals in the most demanding industries push the limits of what's ever been possible. Ultimately we're creating a new kind of immersive computing, where virtual, augmented and physical realities become one. When we're done, computers will look nothing like they do today.

Brandon Turnage  •  (386) 299-2971  •  brandon.turnage@varjo.com

Yaskawa Motoman Robotics

Founded in 1989, the Motoman Robotics Division of Yaskawa America, Inc. is a leading robotics company in the Americas. With nearly 300,000 Motoman® robots installed globally, Yaskawa provides automation products and solutions for virtually every industry and robotic application; including arc welding, assembly, coating, dispensing, material handling, material cutting, material removal, packaging, palletizing and spot welding.

Anthony Pawlak  •  (248) 499-0814  •  anthony.pawlak@motoman.com
Eastern Michigan University

EMU’s College of Engineering & Technology consists of four schools (Engineering, Information Security, Technology & Professional Services Management, and Visual & Built Environments) and the Department of Military Science. The College of Engineering & Technology cultivates the intellectual and personal growth of diverse individuals through research-informed education and diverse programs that emphasize practical application of scientific knowledge.

Lisa Comben • (734) 487-5546 • lcomben@emich.edu

Lawrence Technological University

Lawrence Technological University is a private university founded in 1932 that offers more than 100 programs through the doctoral level in its Colleges of Architecture and Design, Arts and Sciences, Engineering, and Business and IT. LTU is ranked among America’s best universities with alumni salaries in the top 12% of the nation. Students benefit from a real-world, hands-on, “theory and practice” education. LTU’s 107-acre campus has more than 60 student organizations and NAIA varsity sports.

Ahad Ali • (248) 204-2531 • sali@ltu.edu

Monroe County Community College

Monroe County Community College is a public, 2-year institution supported by tax monies from Monroe County, educational funds from the state of Michigan and student tuition. The Monroe County Community College District was formed on June 29, 1964, by the electors of Monroe County. On July 3, 1964, the district was given statutory authority under the provisions of Michigan Act 188 of the Public Acts of 1955 to function as a community college. The Main Campus is centrally located in Monroe, MI.

Cameron Albring • (734) 384-4112 • calbring@monroeccc.edu

Oakland University

Oakland University’s Industrial and Systems Engineering Dept. offers students a personal, high-quality education through highly qualified faculty, flexible class schedules, new facilities, internships, co-ops, and research opportunities with corporate partners. The ISE Dept. offers undergraduate and graduate degree and certificate programs in Industrial and Systems Engineering, Engineering Management, and Systems Engineering. Most graduate students work full-time.

Robert Van Til • (734) 417-6598 • vantil@oakland.edu

Kettering University Online

For 100 years, Kettering has been a pioneer in education, leading the world of academia with applied learning and practical ways to meld classroom learning and real-world education. Kettering University Online now takes that same approach to the online classroom as well as workforce education training through the corporate training division, KetteringGlobalX. With a Learn Today-Use Tomorrow philosophy in all courses, students can meet the challenges of their organizations and workplaces.

Janie Stewart • (810) 762-9827 • jstewart@kettering.edu

State University of New York at Delhi

SUNY Delhi Mechatronics Technologists are the “blue collar engineers” of today’s ever changing industries. Our graduates have the ability to design, build, and troubleshoot smart industrial systems. They are prepared to step directly into high-paying jobs working on automated systems and intelligent equipment in manufacturing, food processing, pharmaceutical production, power generation and distribution, mining and other applications.

Dennis Aikens • (607) 267-8301 • aikensdb@delhi.edu
University of Toledo

The University of Toledo is committed to excellence in education including PLC and controls. EECS and EET courses teach the concepts of PLC programming. We were among the first to adopt a hybrid approach including Siemens as a major emphasis in PLC and mechatronics education.

William T Evans • (419) 343-3681 • william.evans@utoledo.edu

Washtenaw Community College

Located in Ann Arbor, MI, Washtenaw Community College is recognized as a national leader in training the workforce for the exciting new world of mobility. WCC, through its Advanced Transportation Center, uses an interdisciplinary approach, combining the latest advanced manufacturing technologies with business and computer technology. Our exhibit shows how.

Al Lecz • (734) 717-6994 • aliecz@wccnet.edu

Wayne State University

The vision of the College of Engineering is to be a premier engineering college known for improving quality of life through education, innovation & entrepreneurship.

Ece Yaprak • (313) 577-0800 • ab2544@wayne.edu
Northville RoboStangs - Team #548

For 18 years, the Northville Robostangs have touched all aspects of learning. We encourage students to participate in various FIRST programs to all aspects of STEM education. Currently, our 77 members work towards spreading the message of FIRST within our community and beyond. We achieve this through our four pillars - Education, Commitment, Innovation, and Impact - with Unity as our foundation.

ThunderChickens - Team #217

From their 22 years as a team, ThunderChickens have been recognized in our district, county, state, nationally and internationally for their achievements. In 2018, they were finalists of the World Championship competition that was held in Detroit. Last year, they competed again in Detroit against over 400 teams from around the world, and won the World Championship! As a team, ThunderChickens provide a unique experience to all students and help them create a greater understanding in multiple aspects of career development including Leadership, Time Management and Engineering.

Osborn Robotics

As a part of the Part of the FIRST In Michigan District, The Detroit Osborn “Knight Riders,” were ranked the highest among all rookie teams in a statewide robotics competition in 2016. In this ultimate varsity sport where teams of high school students and their industry mentors design and build large scale robots to battle in fierce 3 vs. 3 competitions, the Knight Riders continue to prove their competitiveness in all of their events, and are always working to CREATE. ENGINEER. INSPIRE.

Frog Force - FRC - Team #503

We are FIRST Robotics Team 503 from Novi, Michigan. Our family of frogs includes Jr.FLL, FLL, and FTC teams as well as our FRC “force” and extends out to our mentors and alumni. This lifecycle perpetuates the growth of the program wherever our frogs call home. We are identified by our work ethic, commitment to character and our “hoppy-go-lucky” attitude!
Use Escalators on the 2nd Floor to reach the 3rd Floor Seminars, the Tech Zone, or Elevators to Basement and 4th-7th Floor Seminar Rooms.
## Event Schedule

### 3rd Floor

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar/Session</th>
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<tbody>
<tr>
<td>8:00a</td>
<td>The Summit</td>
</tr>
<tr>
<td>9:00a</td>
<td>Maximizing and Maintaining Your Drives' Investment</td>
</tr>
<tr>
<td>10:00a</td>
<td>Siemens Trusted Traceability with Blockchain</td>
</tr>
<tr>
<td>11:00a</td>
<td>Integrated Global Value Maximizing Production Flexibility</td>
</tr>
<tr>
<td>12:00p</td>
<td>Siemens Industry Logistics Solutions Hands-on with WinCC Unified New Visualization System</td>
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### 4th Floor

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00a</td>
<td>TIA Selection Tool Including S7-1500/PC Solution</td>
</tr>
<tr>
<td>9:00a</td>
<td>Learn How to Build a Complete Failure PLC Solution</td>
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<tr>
<td>10:00a</td>
<td>ECER &amp; a New EDS CL: Standard: What You Need to Know</td>
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<tr>
<td>11:00a</td>
<td>Siemens Industry for Energy Digitalization for Energy</td>
</tr>
<tr>
<td>12:00p</td>
<td>Siemens Industry for Energy How Vulnerable Is Your Network to Cyber Threats?</td>
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### 5th Floor

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:00a</td>
<td>ROX Drive Industry 4.0 Transformation: The Client Journey</td>
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<tr>
<td>9:00a</td>
<td>SIMATIC G SDI: SmartPac – Based Commissioning</td>
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<tr>
<td>10:00a</td>
<td>Siemens Industry for Energy Digital Power Monitoring Efficient and Sustainable</td>
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<tr>
<td>11:00a</td>
<td>Siemens Industry for Energy Industrial 5G: Opportunities and Challenges</td>
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<tr>
<td>12:00p</td>
<td>Siemens Industry for Energy How Hear Top Industry 4.0 Technologies Integrate Into Manufacturing</td>
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### 6th Floor

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<th>Time</th>
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<tr>
<td>8:00a</td>
<td>10 Link is Here to Stay and for Good Reason</td>
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<td>9:00a</td>
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<th>Time</th>
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<tr>
<td>8:00a</td>
<td>What’s New in Siemens Central Products</td>
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### Basement

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### Rooftop Suite

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### South Press Atrium

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### Press Dining Room

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### Visitors Locker Room

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### Lions Post Game Interview Room

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### Gridiron Club

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### Food, Beverage, and CPG Futures Forum

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### Exhibitors

- Communication Industrial Networking
- Control Products
- Digital Factory
- Energy Management
- Factories Automation
- Motion Control
- Siemens Financial Services
SEMINARS

What’s New in Control Panel Standards/Engineering
Michael Burke, Siemens

Are you up to date on control panel standards and best practices for engineering? In this seminar, we will review the latest changes in control panel standards (NFPA70, NFPA79, UL508A). Additionally, we will share resources, tools and best practices for more efficient control panel design and engineering.

Don’t Forget! Workshop Registration & Voucher Notice
Registration for workshops does not guarantee a spot. Attendees must check in at the separate Hands-On Voucher/Information desk located on the Adams St. Concourse next to Section 104. Check in for workshops opens one hour prior to the class start time. Vouchers will be handed out on a first come, first served basis. You must be pre-registered for the workshop to be able to receive a voucher.

Get Your CEH Certificate of Completion
A CEH certificate of completion can be issued for seminars upon request and attendance verification. As an attendee, it is your responsibility to be aware of the continuing education rules and regulations of the state(s)/provinces in which you are licensed, including what topics are acceptable for continuing education/license renewal credit. Visit attendmia.com/ceh for more information.
Many of our Seminars and Workshops can be categorized in the following Industry Topics. To learn the latest on these Industry Topics you can create your own learning track by attending 1 or more of these sessions.

### EFFICIENCY WITH DIGITALIZATION

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<td>Managing Product Complexity in Manufacturing</td>
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<td>Additive Manufacturing — Leveraging the Real and Virtual Worlds</td>
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To easily find your seminar topics, the Siemens sessions on the following pages are grouped by these seminar codes:

- CI: Communication Industrial Networking
- EM: Energy Management
- SFS: Siemens Financial Services
- CP: Control Products
- FA: Factory Automation
- DF: Digital Factory
- MC: Motion Control
RFID and RTLS: Increasing transparency in the factory
Nicole Laufer, Siemens

As industrial automation systems become more autonomous and interconnected, there is an increased demand for complete transparency throughout the entire supply chain and process chain. RFID and RTLS technology provides you with real-time actionable data that enables you to have a complete picture of your assets, processes, and equipment. The end result is a system that improves visibility, increases efficiency, and brings you one step closer to the fully-automated factory of the future.

Navigating the Matrix of Wireless
Jonathan Simpson, Siemens

With the Industrial Internet of Things (IIoT) and edge devices becoming more prevalent in the industrial and harsh environment space, wireless connectivity is becoming more and more a necessity. Deploying the right type of wireless solution can be a complex and daunting endeavour because there is an array of different ways that wireless can be implemented. Learn about the different wireless solutions that can be deployed on the manufacturing floor, outside the plant, over long distances and beyond!

Industrial 5G: Opportunities and Challenges
Jonathan Simpson, Siemens

5G technology and its impact on the future of business is taking the world by storm and influencing how companies view the future of wireless connectivity. For residential and commercial customers, 5G offers clear use cases, from personal devices and home bandwidth to commercial business broadband. Use cases for industrial customers are not as clear and implementing 5G technology can be complicated and confusing. Learn about the opportunities and challenges for 5G in the industrial environment.

How Vulnerable is Your Network to Cyber-threats?
Paul Nuss, Siemens

The digitalization of Industrial Control Systems (ICSS) has enabled significant advancements in process quality, control and productivity. While benefiting from more data-driven, connected and automated processes; it has never been more important to protect your data and network from cybersecurity threats. Learn about networking best practices and when to use the right security application (firewalls, VPNs, network segmentation, DMZ and higher-level security (IDS, IPS, DPI and NGFW)).

What’s New in Siemens Control Products
Jim Sirois, Siemens

Siemens Control Products raises the bar again in 2020. We introduce Safety 3RQ Coupling Relays, an expanded 3RW5 Soft Starter selection with many new features like auto-parameterization and auto pump clean out. Siemens’ PSU6200 Power Supplies and new 8-channel Selectivity Modules set a new benchmark in 24VDC power supplies. In 2020 Siemens Definite Purpose Contactors return, built for the toughest machinery applications with an eye on space savings and cost. Learn about these and more at MiA.

Motor Control/Protection with Cloud Connectivity
John Burns, Siemens

In this seminar you will learn how you can increase diagnostic and operational visibility using fieldbus enabled solutions for your control cabinet. Important measurements such as current, voltage, power, power factor, consumed energy plus more are accessible from your motor control and circuit protection components with minimal additional hardware or panel space impact.

What’s New in Control Panel Standards/Engineering
Michael Burke, Siemens

Are you up to date on control panel standards and best practices for engineering? In this seminar, we will review the latest changes in control panel standards (NFPA70, NFPA79, UL508A). Additionally, we will share resources, tools and best practices for more efficient control panel design and engineering.

Safety Application using Programmable Safety Relay
Glenn Symonds, Siemens

This workshop will take you through the complete process to configure, test and validate a multi-zone safety application using a 3SK2 programmable safety relay system from Siemens. It will also show you how it will save engineering, installation and commissioning time compared to other manufacturers solutions.
**Food, Beverage, and CPG Futures Forum**

This exclusive forum will feature a moderated panel of industry experts gathered to explore the future in Food, Beverage, and CPG manufacturing. Join this session for a unique opportunity to share best practices, explore new technology, and discuss the outlook for Digitalization in Food, Beverage, and CPG. This year’s topic will focus on Artificial Intelligence and machine learning technologies.

**Accelerating Adaptability in F&B Manufacturing**

Suzanne Kopcha, Siemens

Personalization and the need for many different smaller batch sizes is accelerating the need for digitalization of manufacturing in Food and Beverage. Learn how to leverage Siemens Digital Enterprise solutions to deliver the speed, adaptability and increased quality needed now and, in the future, as competitive advantages in Food and Beverage manufacturing. Where Manufacturing meets tomorrow.

**Siemens Trusted Traceability with Blockchain**

Davide Picciotto, Siemens

To remain competitive and respond to growing pressures for product safety and authenticity, Food, Beverage, and Consumer Product companies must have full traceability of their products. Siemens is leveraging the Internet of Things, Cloud Analytics, and Blockchain technology to enable brand owners to track their products across the entire supply chain, enabling them to provide transparency to their customers and tackle challenges including recalls and counterfeits fast and accurately.

**Benefits of Artificial Intelligence in Manufacturing**

James Wilmot, Siemens

Today we already see the use of artificial intelligence in many places in our daily life. But how can we leverage this new technology for the manufacturing industry? This seminar gives an overview and use case examples of different applications for AI in production, highlighting the benefits AI provides. You will also see how the upcoming 57-1500 TM NPU (AI module) seamlessly integrates with SIMATIC automation, offering a simple and cost-effective combination of AI algorithms and PLC logic.

**Leveraging Edge Computing**

Roger Hart, Siemens

Cloud-based IoT platforms are being adopted on the factory floor. The resulting data streams provide new and powerful visibility into the manufacturing process, but some manufacturing applications demand higher bandwidth and more analytic processing than current IoT platforms can provide. For these cases, Edge computing steps to the forefront as a factory local computational device that can bridge the need for broad bandwidth / high computing analytics with provisioned IoT platforms.

**Virtual Commissioning for Machine and Line Builders**

Colm Gavin, Siemens

Virtual commissioning with a digital twin is revolutionizing how machine & line builders are bringing their products to market. By controlling the digital twins with virtual PLCs, they’re able to validate the mechanical design and automation code of their machines & lines virtually. As a result, mechanical and automation engineers can work in parallel earlier in the process, thereby improving machine quality, training operators prior to installation, and reducing time to market for the machine.

**Managing Product Complexity in Manufacturing**

John Flood, Siemens

Manufacturers are faced with greater challenges than ever before. Products are becoming more complex resulting from the demand for smart, connected products. This puts more pressure on manufacturing organizations to deliver high quality products. Having a well thought out Digitalization strategy is crucial to surviving. Learn how to overcome these challenges:

- Product complexity & variability
- Global competition & regulatory pressures
- Shorter development cycles
- Globalized manufacturing

**Reduce Downtime by Digitizing Mechanical Information**

Luis Narvaez, Siemens

Have you ever had an unexpected down-time due to a preventable mechanical failure? Machines are the heart of your production process and therefore should be given a heart beat. Join this short seminar to find out how you can reduce or eliminate unexpected down-times by digitizing mechanical vibration data using condition monitoring systems and cloud technology.

**Siemens Industry Logistics Solutions**

Johannes Niesslbeck, Siemens

Do you need to react quicker to market changes by manufacturing more product variants in smaller batches? Do you want to make your production workflow and material handling processes safer, more dynamic and efficient? The answer to these challenges is a turnkey solution by Siemens. Profit from a partnership with Siemens. Your reliable solution provider and independent automation expert. Flexible automated and financially attractive solutions for material handling by Siemens Industry Logistics Solutions
ROI Driven Industry 4.0 Transformation: The Client Journey
Sid Verma, Siemens

Buzzwords about IoT, Digital Twin and AI have clients racing towards implementing solutions that can deliver flashy capabilities. Rarely does implementing a solution deliver the transformation the client so desperately desires. And given there is no shortage of solutions and platforms, selecting the right platform to fit is overwhelming and often leaves the client lacking desired results of a “transformation”. In this talk, the speaker will provide practical past successes where an ROI driven approach was used to deliver Industry 4.0 transformation.

Additive Manufacturing — Leveraging the Real and Virtual Worlds
Zachary Gray, Siemens

Over the last decade, 3D printing has evolved from prototyping with basic materials and equipment — to producing low tolerance components with limited use — to additive manufacturing as we know it today. In this seminar, we’ll look at how the Siemens Digital Enterprise of hardware and software is removing barriers and enabling machine builders and machine users to adopt additive manufacturing technologies in their factories and on their shop-floors.

Hear How Top Universities Utilize Leading Technologies
Gerald Deren, Siemens

Transforming classroom learning into more relevant concepts for today’s advanced manufacturing environment takes ingenuity. Attend the session to discover how technologies such as digitalization and IoT are impacting the learning landscape and how Siemens Cooperates with Education and our PL Academic team are employing these innovative technologies in real-world classroom projects. This panel-style presentation will feature leading colleges and universities.

Digitalization for Energy
Prateek Duggal, Siemens

Over the next decade, projections expect energy to encompass 40% of all building operational cost, and manufacturers to require production quality rates of 100%. Learn ways digitalizing your power can reduce costs, improve operational efficiency, maintain reliability, and ensure safety through the collection, monitoring and analysis of data. This presentation includes information on Siemens Circuit Protection, Sm@rtGear and MindSphere solutions.

Digital Power Monitoring - Efficient & Sustainable
Wes Sheldon, Siemens

High performance facilities make for high performance business. Energy is the lifeline of your business, and better efficiency and sustainability can have a large positive impact on your bottom line. Energy Management and Control Systems from Siemens are complete enterprise solutions that help you manage the energy costs and availability of your business.

The Latest Advancements in SIMATIC PLC, IO, and Motion
Jim Wilmot, Siemens

Join the SIMATIC PLC / IO / Motion team for an overview of the latest and greatest SIMATIC product and technology innovations that directly impact your applications. This will include a sneak preview into the future roadmap for upcoming product releases and product strategy moving forward! Learn how these latest innovations can help improve your applications, reduce your engineering time and increase your productivity in the coming years.

What’s new in Siemens HMI and IPC
Alan Cone, Siemens

Back by popular demand, we’ll discuss Siemens latest HMI and Industrial PC product innovations, complete with their best-in-class features that meet customers’ needs. Come hear about the latest innovations and get a peek at the roadmap for the upcoming year.

Innovations in the TIA Portal Engineering Framework
John Detellem, Siemens

Discover the latest innovations within the Totally Integrated Automation (TIA) engineering framework Portal. Innovations within TIA products and the engineering software bring solutions to reality much faster, with less engineering time, greater reliability and improved consistency. Experience the TIA Portal Engineering Software and the latest innovations that define your future with automation.

How WinCC Unified Impacts the Future of SIMATIC HMI
Ramey Miller, Siemens

SIMATIC WinCC Unified is a totally new visualization system you can use to overcome the challenges of digitalization in mechanical engineering and plant construction. All thanks to the latest hardware and software technologies, both now and in the future. It offers proven engineering in the TIA Portal, the latest web technology, high power reserves for the coming years, so you can implement your ideas the way you imagine them.
Learn How to Build a Complete Failsafe PLC Solution  
Shun Gao, Siemens  
In this seminar we will configure, download and test a complete Failsafe PLC solution in 45 minutes or less using the TIA Portal software. The configuration will include a safe input (Estop) and safe output (Motor Management System) directly connected over a PROFINET network. This solution will show reduced engineering time, reduced wiring and increased diagnostic/operational data.

Automated Guided Vehicles Maximize Production Flexibility  
Luis Narvaez, Siemens  
The fixed production line has given way to flexible, modular production. Automated Guided Vehicles (AGVs) perform this function in production facilities and distribution centers. Best practice includes pre-programmed libraries, built-in diagnostics, safety and self-healing, and secure communication networks to provide data for analytics. Come discover how Siemens can help you establish flexible, modular production with hardware and software – with the AGV being the backbone of the smart factory.

Hands On with WinCC Unified New Visualization System  
Alan Cone, Siemens  
Join our workshop to get a hands-on overview of the future of SIMATIC HMI. With SIMATIC WinCC Unified, a totally new visualization system, you can overcome the challenges of digitalization in mechanical engineering and plant construction. All thanks to the latest hardware and software technologies, both now and in the future. It offers proven engineering in the TIA Portal, the latest web technology, high power reserves for the coming years, so you can implement your ideas the way you imagine them.

What’s New in Motion Control Drives and Motors  
John Krasnakutsky, Siemens  
Join Siemens for a summary of recent and upcoming product introductions and enhancements in SINAMICS variable speed drives, SIMOTICS Motion Control Motors, and Engineering Tools. Within this seminar products and tools will be introduced to reduce machine development time, reduce system hardware accessories, raise machine reliability and achieve energy savings.

Maximizing and Maintaining your Drives Investment  
Chadwick White, Siemens  
In this session participants will gain a better understanding of how to reliably install drives into their manufacturing facilities. Many factors will determine the life of a VFD including line transients, heat, environmental contaminates, and voltage sags. We will explore how to protect your drives from all these potential issues to ensure your investments are working reliably for years to come.

TIA Selection Tool: Including SIZER Plug-in  
Randy Summervill, Siemens  
TIA Selection Tool has expanded its integration of Siemens products for planning, selection, sizing, engineering, and documentation. Intelligent selection wizards enable planning for PLC controller needs of a motion control application according to number of axes and application needs. Selection and sizing of SIMATIC PLCs, SIMOTICS motion control motors and drives will be demonstrated. Export of project documentation will be demonstrated to enable efficient collection of documentation.

Safety Integrated Innovations for Motion Control  
Craig Nelson, Siemens  
With industrial plants being automated more and more every day the machine safety landscape must innovate to keep up. In this seminar we will explore new safety concepts to meet these demands that are providing safer environments with increased productivity. Attendees will be able to experience first-hand the workings of a TIA Portal project utilizing a SIMATIC Fail-Safe PLC controlling SINAMICS drive based safety functions over a PROFINet network.

SCCR & a new VFD UL Standard - What you Need to Know  
Nikunj Shah, Siemens  
This seminar instructs different types of overcurrent protective devices (OCPD) their behavior in circuit protection & differences. It instructs requirements for motor branch circuit protection according to different codes/standards for control panels & VFDs. It also provides practical understanding of SCCR & OCPD sizing to obtain a desired SCCR in compliance with UL/NEC/IEC. As a bonus, a new UL standard UL61800-5-1 for VFDs will be discussed along with its impact to industry & benefits to users.

SINAMICS G120X: Hands On Experience  
Tim Dyer, Siemens  
This workshop is designed to introduce an exciting recent addition to the existing SINAMICS product portfolio the SINAMICS G120X - A simple, seamless & easy-to-use drive - right out-of-the-box targeted for pumps, fans & compressors. The class instructs features of this product which will help you specify & integrate it in panel or MCC & provide an appropriate solution to your customer. Hands-on labs will allow AEs to experience the simplicity of this new member of the SINAMICS drive family.
SINAMICS G120 & Startdrive – Beyond Commissioning
Tim Dyer, Siemens

Perhaps you’ve worked with Startdrive & commissioned a few Sinamics G120 drives, but do you really know the full capabilities of the G120 & the features of Startdrive? If you don’t, we invite you to attend this hands-on workshop that goes beyond commissioning. Learn how to program some of the advanced features such as command data sets & Free Function Blocks. You’ll also learn how to use the trace function, control panel, motor tuning interface & how to create your own user defined expert list.

Integrating Siemens Drive into Legacy & AB Systems
Chadwick White, Siemens

In this session participants will gain a better understanding of how to integrate SINAMICS General Purpose Drives into Rockwell Automation control platforms. Participants will get an opportunity to program with Rockwell Studio 5000 and FT View ME software and use new efficient integration techniques such as Faceplates, AOI’s, and EDS files. We will also explore how to communicate with outdated Rockwell networks and control systems such as RIO and Data Highway Plus.

Dynamic Technologies for Automotive Testing
James Ellis, Siemens

Join us for a glimpse into the capabilities of the SINAMICS drive family for testing applications. Powertrain testing is no longer about motion, see how the proven SINAMICS platform is solving new electrification challenges for validation and test of electric vehicle components including battery, e-transmission, and motor. We’ll discuss methods to utilize smaller drives for high speed motor applications and how real world engine conditions can be emulated in a testing environment.

3D Printing: Flexible Payment Options with Siemens
Jennifer Wenke, Siemens

3D Printing is changing the industry. From improved efficiency to increased productivity, additive manufacturing technology drives value. With customized financial solutions from Siemens Financial Services (SFS), customers can implement the latest technology based on business needs, not just immediate liquid capital allocation. As your financial provider, SFS, enables you to access the technical innovations which help to achieve business goals. Learn more by attending our seminar.

Increase Production Efficiency through Effective Operator Visualization
Michael Lennon, Applied Control Engineering, Inc.

Human Machine Interfaces (HMI) should provide plant operations with contextual information that leads to optimal interventions. This seminar will discuss how to take your existing HMI’s and introduce design concepts that promote abnormal situational awareness. Updating your existing displays (perhaps tied to required version upgrades) may increase response times, improve product quality, and reduce operator training times. This talk will include an overview of ISA-101 and provide examples of projects that illustrate the HMI optimization lifecycle.

Modernization of Facilities Boilers with Industrial Controls Leads to Enhanced Operations
David Erby, Applied Control Engineering, Inc.

The boiler in a facility may have been installed with a commercial grade control system. This seminar will discuss the benefits of implementing modern industrial controls (PLCs) with smart instruments on boilers during facility boiler modernization. Case studies will show how to implement modern features such as access to additional data, enhanced diagnostic data, visibility in the facility control system, redundancy, and optimization of multiple assets to realize varied benefits, such as standards compliance, increased uptime, reduction of energy and maintenance costs, and ease of support.

Manufacturing AI for Equipment Health Monitoring and Predictive Maintenance
Joe Lee, BiSTel

By detecting, and analyzing real-time streaming and historical data, leveraging powerful predictive analytics, GrandView® saves manufacturers time and expense by reducing two of the leading losses for the manufacturing industry: equipment failure, and downtime. GrandView AOPM will discuss and demonstrate how it solves these issues through real-time fault detection, root cause analysis and predictive analytics that empower engineers leading to improved yield, and productivity.

Introducing Automation & Manufacturing to Offsite Modular Construction Facilities
Brent McPhail, Brave Control Solutions

This seminar will overview the robotic production and maintenance systems currently on the market that are benefiting volumetric modular construction...
facilities. Focus on outlining the IIoT & traceability tools used to improve tracking and transportation of material through the lifetime of components and providing an understanding of the resources and infrastructure needed to manage a factory and its systems that will ultimately facilitate predictive maintenance and significantly boost productivity.

Industry 4.0: It’s Not Just for Manufacturers!
Bryan Powrozek, Clayton & McKerney

The term Industry 4.0 conjures up images of the high tech factories filled with connected robots performing work previously performed by people. However, the technologies that are enabling this transformation are not just confined to the plant floor. This session will focus on how artificial intelligence, robotic process automation and data analytics are being used to drive operational efficiency in the back office. This event is intended for all owners, operators, c-suite leaders, plant managers and engineering managers looking to improve the performance of their operations.

Building the Factory of the Future, Now: Comau’s Way to IoT and AI
Comau

Comau, a member of the FCA Group and leader in industrial automation, will discuss how it is leveraging the power of Industry 4.0 in its products and solutions.

Validate Your Engineering Change Orders
David Selliman, CoreTechnologie

Understand requirements for Long Term Data Retention and how companies are embracing the ISO format for MBE. This presentation will review the significant problem of having countless proprietary file formats and the exchange of 3D CAD data. CAD applications and methods using digital data are constantly changing, which predicates the need for a solution to share validated and accurately translated data. Long Term Data Archival and Retrieval (LOTAR) is a multi-party International consortium for the standardization of the archival and retrieval.

The IIoT Ready PLC: Your Journey from the Edge to the Cloud
Patrick Corcoran, DMC, Inc.

DMC has developed an IoT solution for connecting Siemens PLCs to the Cloud using a secure, bidirectional communication featuring the widely accepted MQTT protocol. This solution allows a user to monitor and manage equipment in the field from a secure web page. Primary use cases are distributed systems using cellular connections, but the solution works inside the factory as well. This presentation will outline the solution as well as show examples of actual deployments in the field.

Why the Push for Efficiency is Causing us to be Less Effective
Dowding Industries

Every company understands that quality, deliver and competitive pricing are a given in today’s environment. It’s SPEED that will continue to be a key differentiator for many industries in the next decade. Getting your product into your customer’s hands in a fraction of the time it takes your competitor will be YOUR competitive advantage. Find out how your company’s culture has more of an impact on your push for efficiency than you’d imagine.

B11 Machinery Safety Standards & OSHA: How do they affect you?
Fortress Interlocks

An introduction to the laws, standards and recent changes related to Machinery Safety that are relevant for manufacturers in the USA. Including the new ANSI B11.19 Standard for risk reduction measures, a comparison with International and European Standards, and an explanation of how they can influence the protection of people and productivity and be beneficial for your business.

Industrial Communications from the Factory Floor to the Cloud & Everything in Between
Victor Wolowiec, Hilscher

Hilscher will present their latest IIot Edge gateways line completing their coverage from the factory floor to the Cloud. Come learn how Hilscher can scan and collect your data from any protocol or network and deliver it to any location or Cloud using any of many interfaces and “plug-ins”. Hilscher’s expertise and wide range of solutions makes any IIoT task or project not too small or too big.

Innovations in Actuation Technology Allow Machine Builders to Improve Performance, Increase Efficiency and Reduce Costs
Kyntronics

Learn about the latest developments in actuators and actuation systems that provide a compelling alternative to traditional hydraulic cylinders and electro-mechanical actuators. This new technology combines the best features of hydraulic power density with the precision of servo control technology in an all-in-one system. Learn how this new actuation technology is being used successfully by machine builders and end users in a multitude of applications including presses, test equipment, metal forming and fabrication, clamping, positioning, lifting and material handling.
### Hygienic Design Enclosures: Food Safety & Manufacturing Efficiency

**John Carnevale, Rittal**

A hygienically designed enclosure is essential in the food industry, particularly in open processes. Learn what food processing equipment standards apply to enclosures and why you want hygienic design enclosures on your next build.

#### Integrated Value Chain for Controls Engineering & Panel Manufacturing

**Van Miller, Rittal**

The Integrated Value Chain is the interplay of Eplan engineering solutions and Rittal system solutions and automation expertise to optimize and industrialize customer processes in the panel building industry.

#### What’s Next at the Industrial Edge

**Herb Villa, Rittal**

This topic will discuss strategies for adapting today’s existing data center infrastructure to meet these new challenges.

#### How to Commission & Troubleshoot Profinet & Profibus Networks

**Jim Ralston, Softing**

Is uptime important to you? Learn about the latest in Ethernet and Profibus testing solutions. This session will demonstrate cable troubleshooting for quick repairs, cable speed testing to ensure network compliance, and network diagnostic techniques for both Ethernet and Profibus networks.

#### Lean Six Sigma Executive Overview for Manufacturers

**Dr. Ijaz A. Rauf, SRA Academy Inc.**

In all types of manufacturing, decision making is a vital part of the routine. Many of these decisions are very often based solely on intuition and/or experience. Lean Six Sigma minimizes personal elements by using data to quantify the issues. The use of logical tools coupled with basic statistics provides a mean of determining probabilities of success and failure. Experience and tribal knowledge feed into the data gathering process and thus quantifiable validation is required prior to acceptance of decisions. This session is designed for executives and senior managers in manufacturing.

#### Innovations in Crane Technologies

**Mike Martin, Trutegra**

Automated crane technology is growing by leaps and bounds. Many crane users (and OEMs) are unaware of the latest capabilities that automation can provide. In this presentation, we will cover emerging technologies to aide operators with manual and semi-auto cranes as well as new technologies for fully automatic operation. These include Anti-Sway, Obstacle Avoidance, Augmented Reality and 3D mapping technologies.

#### IO-Link is Here to Stay and for Good Reason

**Nick Clute, Turck**

From buzzword to an industry standard, IO-Link is here to stay. It has already helped many companies reduce costs up and down the assembly line... from up-front hardware costs, to installation costs, and even diagnostic and preventative maintenance costs. It has also been effective at future-proofing designs especially when you know something is going to change but you’re not sure how. Don’t be intimidated by its capabilities, come learn from the leaders in IO-Link technology about its many benefits. You’ll see practical applications along with live demonstrations.

#### Proven RFID Systems Improve Inventory Tracking & Management

**Raymond Wenzel, Turck**

Never run out of frequently used replacement parts and materials again with a unique, in-factory RFID Store solution. Find out how to gain 100% transparency to inventory with no extra staffing required. See how this customizable solution works and learn how you can easily implement this unique, in-factory RFID Store solution. Find out how to gain 100% transparency to inventory with no extra staffing required. See how this customizable solution works and learn how you can easily implement this.

#### Next Level Custom Engineered Solutions for Manufacturing

**Nick Clute, Turck**

Do you have something that you’ve designed to be used in more than one machine or process and want it to be identical? Do you want to make sure it gets implemented the same way, every time, without fail? Do you want to make sure that it happens consistently whether the design will be used here in Michigan, in Alabama, South Korea, or anywhere in the world? Come learn more about high-quality custom solutions for wiring, including Harting connectors, intricate wiring harnesses, stand-alone panels and operator stations, and even I/O that has the logic built in.
<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>City, State</th>
<th>Phone</th>
<th>Website</th>
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<tbody>
<tr>
<td>Applied Control Engineering, Inc.</td>
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<td>Omaha, NE</td>
<td>(402) 339-9300</td>
<td><a href="http://www.conductix.us">www.conductix.us</a></td>
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<td>Control Systems Innovators Corp.</td>
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<td><a href="http://www.csinnovation.com">www.csinnovation.com</a></td>
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<td>Control System Integrators Assoc. (CSIA)</td>
<td>22 N. Carroll St., Suite 300</td>
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<td>Stow, OH</td>
<td>(330) 688-8460</td>
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<td>Potterville, MI</td>
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<td><a href="http://www.durobyte.com">www.durobyte.com</a></td>
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<td>(734) 487-0354</td>
<td><a href="http://www.emich.edu/cot/">www.emich.edu/cot/</a></td>
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<td>23660 Industrial Park Dr.</td>
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<td>West Dundee, IL</td>
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<td>2525 Cabot Dr., Suite 200</td>
<td>Lisle, IL</td>
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<td><a href="http://www.hilscher.com">www.hilscher.com</a></td>
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<td>Miamisburg, OH</td>
<td>(937) 530-5550</td>
<td><a href="http://www.icobotics.com">www.icobotics.com</a></td>
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<td>Industrial Plant Services</td>
<td>51410 Milano Dr., Suite 110</td>
<td>Macomb, MI</td>
<td>(586) 221-9017</td>
<td><a href="http://www.i-p-services.com">www.i-p-services.com</a></td>
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<td>Intec Automated Controls</td>
<td>44440 Phoenix Dr.</td>
<td>Sterling Heights, MI</td>
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<td><a href="http://www.intecautomated.com">www.intecautomated.com</a></td>
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<td>Kettering University Online</td>
<td>1700 University Avenue</td>
<td>Flint, Michigan</td>
<td>(810) 762-9827</td>
<td><a href="http://www.kettering.edu">www.kettering.edu</a></td>
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<td>Kyntronics</td>
<td>6565 Davis Industrial Pkwy.</td>
<td>Solon, OH</td>
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