PCC
www.pccweb.com

OKTOBERFEST
TAP INTO TECHNOLOGY™

Please join PCC and our technology partners at Oktoberfest 2016

THURSDAY OCTOBER 13, 2016
PCC HEADQUARTERS - GERMANTOWN, WI

EVENT OUTLINE & COURSE OFFERINGS

About Oktoberfest

Join PCC for a full day of technical seminars, workshops, technology automation fair with hands-on product stations, one-on-one discussions with top industry experts, networking with your industry peers and a little fun. Spend the entire day or just come for lunch and tour the technology exhibits.
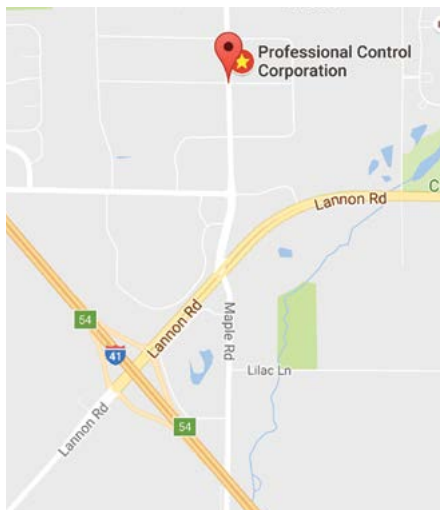
OKTOBERFEST DAY AT A GLANCE:

- Doors open: 8:00AM
- Seminars begin: 8:30AM
- Pig roast & lunch 11:30AM – 1:30PM
- Exhibit automation fair going on all day
- Tour the WAGO trailer (tours all day until 4:00PM)
- Oktoberfest reception begins at 4:00PM
  (Music, appetizers, games & refreshment)

Registration

There is **NO CHARGE** to attend, but registration is required at Oktoberfest - Tap into Technology 2016.
www.pccweb.com/pcc-oktoberfest

Location & Accommodations

Oktoberfest Location: PCC Headquarters, Germantown WI
N114 W18770 Clinton Dr. Germantown, WI 53022
(262) 251-3000 | events@pccweb.com

Suggested Accommodations:

Holiday Inn Express Germnantown W177 N9675 Riversbend Ln, Germantown, WI 53022 (262) 255-1100

Country Inn & Suites W188N11020 Maple Rd, Germantown, WI 53022 (262) 251-7700

Best Western W190N10862 Commerce Circle, Germantown, WI 53022 (262) 502-9750
www.bestwesterngermantowninn.com

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 your PCC Account Representative to schedule a meeting or email events@pccweb.com.
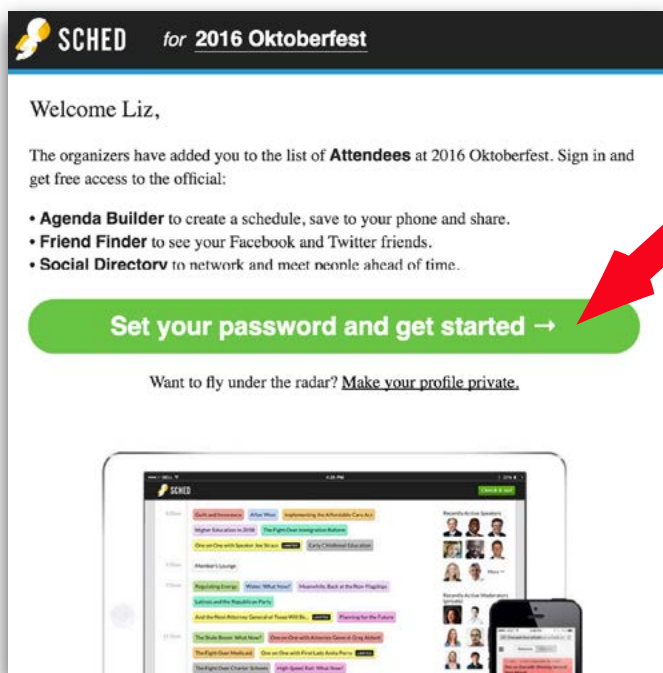
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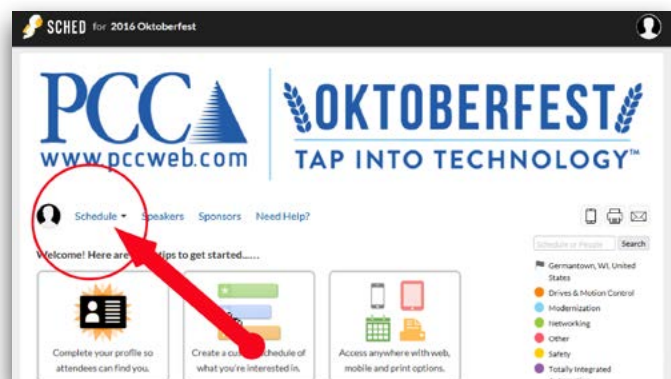
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Please visit to register: www.pccweb.com/pcc-oktoberfest

IMPORTANT INSTRUCTIONS TO CUSTOMIZE YOUR AGENDA AFTER YOU REGISTER:

- Once registered, PCC & Sched.org will be sending you a unique email invitation to create your own customizable schedule through Sched.org. This may take a few moments, so please be patient.

- **The email from PCC or Sched.org may be blocked by your SPAM filter, or may be in your "Junk" or "Clutter" folder. PLEASE CHECK FIRST.**

- If you do not receive the emailed invite within an hour, (during normal business hours M-F, 8-5pm) please email events@pccweb.com and we will send you an new link.

- Once you've created a password and logged into the sched.org schedule tool, you will be able to select the seminars and workshops you wish to attend by adding them to your schedule.

- Workshop & Seminar selection will be open until two days prior to the event. Select your classes as soon as possible as classes have a limited number of seats available and are first-come, first-served.

- You can change your schedule (based on course availability) at any time until registration closes two days prior to the event.

- If you have registered with Sched for PCC Oktoberfest in previous years, and do not get a Sched.org email please contact events@pccweb.com. You may be prompted to reset your password.

The image to the right is the Sched.org email.
Click the green button to get started using Sched.

After logging in, click on "schedule" to begin cutomizing your course selection.

Keynote Presentations

DHS ON MANAGING CYBER RISK: CURRENT THREATS & DEFENSIVE STRATEGIES FOR PROTECTING CRITICAL INFRASTRUCTURE

NEIL HERSHFIELD

11:00-11:45AM | 3:00PM-3:45PM | VENUE - BERLIN

Neil Hershfield, Deputy Director of the **U.S. DEPARTMENT OF HOMELAND SECURITY'S INDUSTRIAL CONTROL SYSTEMS CYBER EMERGENCY RESPONSE TEAM (ICSCERT)** will provide a keynote which features an overview of Cyber Attacks against the Ukrainian Critical Infrastructure. In addition he will provide a World Wide Threat Assessment, FY16 ICSCERT Information/Metrics, and include security best practices, referencing resources and tools available to improve industrial control system security.

ABOUT THE SPEAKER: Neil Hershfield is the Deputy Director of the U.S. Department of Homeland Security's (DHS) Industrial Control Systems Cyber Emergency Response Team (ICS-CERT). ICS-CERT operates within the National Cybersecurity and Integration Center (NCCIC), to bring a control systems focus to the mission of protecting the Nation's critical infrastructure from physical and cyber threats.

The goal of the ICS-CERT is to guide a cohesive effort between government and industry to reduce the cyber risk to industrial control systems. The ICS-CERT provides guidance and reduces risk to critical infrastructure control systems by: leading the Common Strategy to Secure Control Systems; operating the ICS-CERT for control systems related vulnerabilities, threats and incidents; creating informational products and tools to assist vendors and owners/operators in designing, procuring, installing, and operating controls systems to mitigate risks; and performing outreach activities and improving awareness in the control system community through training and education.

Prior to his current role, Neil was Program Manager for the National Cyber Security Division Mission Support contract with SRA International, Inc. Previously, Neil was employed with The Dow Chemical Company and held a variety of managerial and leadership positions in Economic Development, the Chemical Sector Cyber Security Program, Global eCommerce, Marketing and Sales.

NFPA FOR SAFETY'S SAKE

MARK CLOUTIER

9:00-9:45AM | 1:00-1:45PM | VENUE - BERLIN

NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) is an organization that publishes a comprehensive set of codes, standards and guidelines for fire protection, electrical safety and construction safety. Founded in 1896, the NFPA has published over 300 standards to date. Mark Cloutier, Senior Electrical Engineer with the NFPA will present an overview of the NFPA, how the process for developing the NFPA codes and standards works and information on the important changes to NFPA 70E, NFPA 79, and the NEC codes. Time will be available for audience questions regarding the specific NFPA requirements and how to work closer with the NFPA.

ABOUT THE SPEAKER: Mark Cloutier is Senior Electrical Engineer at NFPA, where he is part of the Electrical staff that participates in the development of the National Electrical Code and the National Electrical Code Handbook. He also serves as staff liaison for NFPA 79, Electrical Standard for Industrial Machinery; NFPA 790, Standard for Competency of Third-Party Field Evaluation Bodies; and NFPA 791, Recommended Practice for Unlabeled Electrical Equipment Evaluation. Mr. Cloutier has been involved in the electrical industry for over 30 years, working as an electrical engineer for the industrial consumer division of a major automatic test equipment company and as an electrical contractor and electrician.He holds electrician licenses in both Massachusetts and Maine, a B.S. degree in Electrical Engineering from Southeastern Massachusetts University, and is a member of IEEE and IAEI. He also represents NFPA on several Underwriters Laboratories (UL) product standards as part of their standards development process.

RESERVE YOUR FREE SPOT! REGISTER AT:
WWW.PCCWEB.COM/PCC-OKTOBERFEST

Oktoberfest Technology Tracks

PCC has created color coded technology tracks to help you select courses in your field of interest during registration. Technology tracks include Safety, Modernization, Totally Integrated Automation (TIA), Networking, and Drives & Motion Control.

SAFETY
Safety is in the forefront of everyone's minds. Standards are being updated and new products are being developed regularly. The Safety track includes topics that range from what the proper components to use are based on the application, what standards are required, what tools exist to help minimize design times, Arc fault avoidance and mitigation, as well as a keynote speaker from NFPA.
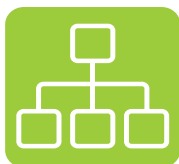
MODERNIZATION
Are you currently using Rockwell controllers? Are you being told to upgrade your really old Rockwell PLCs to their "new" PLC family that has been around since 1998? This track will show you how to modernize your systems. See how easy it is to convert the code from a Rockwell PLC to the latest and greatest Siemens S7-1500 PLC with TIA Portal. Maybe you need a Rockwell Controller to interface to PROFINET or you need to share data between Rockwell and Siemens systems. These seminars will help you achieve your modernization desires.

TOTALLY INTEGRATED AUTOMATION
The Totally Integrated Automation track will cover many automation focused topics. See what's new in the Siemens automation world including things like V14 of TIA Portal, check out the cool features of the integrated simulation tools, explore the best (and easiest) automation diagnostics in a PLC, learn about free tools to make your job easier, see how a PC based controller could be used to simplify tasks or learn about things you didn't know you could do with a Siemens HMI.

NETWORKING
Networking has been one of the hottest topics for years. In recent years' diagnostics, security and remote access have been talked about a lot, but what do you really need to know to safely and effectively implement these technologies? Hear from industry experts including the Deputy Director of the Department of Homeland Security's Industrial Control Systems Cyber Emergency Response Team (ICS-CERT).

DRIVES & MOTION CONTROL
Get your machines moving by following the Drives & Motion track. See the latest innovations, how to commission using wizards or get your hands on the components by implementing safe drives or PLC based motion control.

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Course Offerings & Schedule

THE WHY, WHAT & HOW OF MACHINE SAFETY
8:30AM-9:15AM | VENUE - MUNICH
SAFETY

Have you ever wondered... "Machine Safety" – Why is safety needed? What is it good for? Does it have any value or future? What are the current safety trends or best practices in North America? How can I make a difference? This session will make you a thought leader in machine safety. It will enable your organization to make the workplace safer - giving you peace of mind, as well as bring increased productivity & profit for your organization.
Presented by: SIEMENS AUTOMATION TECHNOLOGY

TIA PORTAL V14 OVERVIEW
8:30AM-9:15AM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

In this session we will discuss and demonstrate the new features of TIA Portal V14. New features include enhanced motion control, team collaborative engineering, advanced simulation and more!
Presented by: SIEMENS AUTOMATION TECHNOLOGY

REALIZING ENGINEERING EFFICIENCIES - IMPLEMENTATION OF AUTOMATION SYSTEM DIAGNOSTICS
8:30AM-10:15AM | VENUE - DORTMUND
TOTALLY INTEGRATED AUTOMATION

During this session we will implement a consistent method for displaying system generated faults on the PLC display, HMI Screen, Engineering and Web Server, WITHOUT any additional user programming to decipher the fault information. We will also explore how to add user based process diagnostics.
Presented by: SIEMENS AUTOMATION TECHNOLOGY

WHY MIGRATE WHEN YOU CAN MODERNIZE? ROCKWELL TO SIEMENS PLC CODE CONVERSION
9:00AM-9:45AM | VENUE - DUSSELDORF
MODERNIZATION

During this session, we'll demonstrate the code conversion from a Rockwell PLC to the Siemens TIA Portal engineering platform utilizing the Siemens Migration Studio. Also covered will be the steps to a successful modernization of a legacy Rockwell automation system to a modern Siemens solution.
Presented by: SIEMENS AUTOMATION TECHNOLOGY

3 MISSION CRITICAL REASONS TO DEPLOY MANAGED NETWORKS
9:00AM-9:45AM | VENUE - HAMBURG
NETWORKING

Bring your network out of the dark ages and into the modern data age by using managed networks. Attendees of this session will learn about the benefits of using a managed network vs. unmanaged network. The instructor will provide a live demonstration highlighting the advantages network diagnostics, redundancy, and loop detection detailing how these features have a positive impact on productivity. Once you go managed, you'll never go back!
Presented by: SIEMENS INDUSTRIAL COMMUNICATIONS

KEYNOTE: NFPA FOR SAFETY'S SAKE
9:00AM-9:45AM| VENUE - BERLIN
SAFETY

Mark Cloutier, Senior Electrical Engineer with the NFPA will present an overview of the NFPA,how the process for developing the NFPA codes and standards works and information on the important changes to NFPA 70E, NFPA 79, and the NEC codes.
Keynote Speaker: Mark Cloutier
Presented by: NFPA

MOTION CONTROL WITH THE SIEMENS S7-1500 PLC
9:00AM-10:45AM| VENUE - FRANKFURT
DRIVES & MOTION CONTROL

This hands-on workshop will cover motion control applications that are possible using a standard Siemens S7-1500 PLC. Participants will have an opportunity to configure a technology object for a two axis application and controlling the axis with a program using PLC Open motion blocks.
Presented by: PCC

IF IT'S FREE, IS IT OF VALUE? FREE SIEMENS TOOLS THAT WILL SAVE YOU TIME & MONEY
9:30AM-10:15AM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

This session will explore some of the free tools available from Siemens to make your life easier. Tools include the TIA Selection Tool for creating PLC, I/O and other parts lists, The Simatic Automation Tool for simple PLC tasks and diagnostics without programming software, and Proneta for configuring/commissioning a PROFINET network & controlling and monitoring Siemens ET200 I/O products.
Presented by: PCC

Course Offerings & Schedule

ADVANCEMENTS IN CONTROLLERS CREATES NEW INTEGRATION OPPORTUNITIES
10:00AM-10:45AM | VENUE - DUSSELDORF
MODERNIZATION

There are many new, exciting options when it comes to integrating Rockwell and Siemens controller platforms. This seminar will look at the following applications:
- EtherNet/IP and PROFINET with PROFINET Controller functionality.
- Seamlessly integrating PROFINET IO devices into a Rockwell Controller.
- PROFINET IO and EtherNet/IP Scanner functionality.
- Seamlessly integrating EtherNET/IP adapters into a Siemens Controller.
- Data transfer between EtherNet/IP controllers and PROFINET controllers on different networks.
- Data transfer between EtherNet/IP controllers and PROFINET controllers on the same network using a library of communication blocks on the SIMATIC S7-1200/S7-1500 without changing the Rockwell ControlLogix/GuardLogix program all without the use of a gateway.

Presented by: PCC

INCREASING UPTIME WITH LATEST ETHERNET & PROFIBUS TROUBLESHOOTING & DIAGNOSTIC TOOLS
10:00AM-10:45AM | VENUE - HAMBURG
NETWORKING

Is uptime important to you? Learn about the latest in Ethernet and Profibus testing solutions. This session will cover the importance of Ethernet media testing as well as monitoring and diagnostics of PROFINET and PROFIBUS networks with both portable and online tools. Both portable and online tools will be demonstrated.

Presented by: SOFTING

BASICS OF SAFETY APPLICATIONS: LATEST STANDARDS & SAMPLE APPLICATIONS
10:30AM-11:15AM | VENUE - MUNICH
SAFETY

This seminar will discuss the latest changes to the Machine Safety Standards including basic terminology and an explanation of how to comply with the different levels of Safety. It will also discuss different hardware solutions using simple Safety Relays, Programmable Safety Relays, and Safety PLCs. Live demonstrations will show how to configure systems for the first time and how to diagnose common faults.

Presented by: SIEMENS INDUSTRIAL CONTROLS

SIEMENS HMI – DID YOU KNOW YOU CAN DO THIS?
10:30AM-11:15AM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

This seminar is really a tips and tricks for Siemens HMI developers. Learn about Design Styles/sheets, Faceplate concept for creating your own custom objects with events and properties as well as advanced editing capabilities that will save you time.

Presented by: PCC

IS YOUR NETWORK SAFE? LEARN HOW TO SECURE YOUR NETWORK AND LOWER THE RISK OF A BREACH!
10:30AM-12:15PM | VENUE - NUREMBERG
NETWORKING

According to U.S. News & World Report, data breaches account for more than $445 Billion in annual damages. No individual business or industry is completely safe from this growing threat. Join us in this hands-on session and learn how to configure industrial automation hardware & software to better-protect your information and business. This session will cover: -Firewall Rules and User-Specific Firewall -NAT/NAPT -Port Forwarding -Virtual Private Network (VPN) -Demilitarized Zone (DMZ)

Presented by: SIEMENS INDUSTRIAL COMMUNICATIONS

REALIZING ENGINEERING EFFICIENCIES - PLC BASED SAFETY CONFIGURATION AND PROGRAMMING
10:30AM-12:15PM | VENUE - DORTMUND
SAFETY

In this hands-on workshop attendees will configure the S7-1500F safety PLC to control ET200SP safety I/O over PROFINET and implement a simple emergency stop program.

Presented by: SIEMENS AUTOMATION TECHNOLOGY

SIEMENS & ETHERNET/IP
11:00AM-11:45AM | VENUE - DUSSELDORF
MODERNIZATION

This class will provide a complete Siemens product portfolio overview of EtherNet/IP products and how these solutions can exist in your existing automation system platform. Also demonstrated will be the seamless nature in which Siemens solution can exists on both EtherNet/IP and PROFINET communication networks.

Presented by: SIEMENS AUTOMATION TECHNOLOGY

A HIGHER ELECTRICAL IQ WITH SIEMENS SMART CONTROLS
11:00AM-11:45AM | VENUE - HAMBURG
NETWORKING

Just like smart TVs and smartphones electrical control products such as breakers, soft starts and yes even pilot devices like push buttons are getting "smart" with built in intelligence and network connectivity. Siemens' new line of smart control products will reduce wiring and labor costs, as well as provide more feedback about the electrical control system than you get with hard wired controls. This seminar will explore these exciting new products and their practical applications. These are not your father's clickety-clack products anymore.

Presented by: PCC

Course Offerings & Schedule

KEYNOTE: U.S. DHS ON MANAGING CYBER RISK - CURRENT THREATS & DEFENSIVE STRATEGIES
11:00AM-11:45AM | VENUE - BERLIN
NETWORKING

Neil Hershfield, Deputy Director of the U.S. Department of Homeland Security's Industrial Control Systems Cyber Emergency Response Team (ICS-CERT) will provide a keynote which features an overview of Cyber Attacks against the Ukrainian Critical Infrastructure.
Keynote Speaker: Neil Hershfield
Presented by: DEPARTMENT OF HOMELAND SECURITY

SIMPLICITY AT ITS BEST! COMMISSIONING DRIVES WITH WIZARDS & MACROS
11:30AM-12:15PM | VENUE - MUNICH
DRIVES & MOTION CONTROL

This seminar will demonstrate the speed and ease in which the Siemens SINAMICS G120 drives can be configured with wizards and control macros for quick commissioning. Attendees will also learn how to use the "Status-screen wizard" in the Intelligent Operator Panel (IOP) to modify the screen's appearance and select the desired values to be displayed.
Presented by: SIEMENS DRIVE TECHNOLOGIES

THE NEW SIMATIC ET200SP OPEN CONTROLLER PLC/PC
11:30AM-12:15PM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

Is it a PLC or a PC? Yes! The new SIMATIC ET200SP Open Controller features the same functionalities as the S7-1500, while at the same time being a true Industrial PC. Attendees will learn how you can work seamlessly and easily integrate pc based control into any automation architecture.
Presented by: SIEMENS AUTOMATION TECHNOLOGY

SIMPLIFYING NFPA 70E COMPLIANCE WHILE DECREASING DOWNTIME & OPERATING COSTS
12:30PM-1:15PM | VENUE - MUNICH
SAFETY

This seminar will discuss how implementing UL & CSA switch-rated plugs and receptacles in place of standard pin & sleeve plugs/receptacles and disconnect switches can increase worker safety while reducing downtown and operational costs. The NFPA 70E standard will be reviewed followed by the technology and use of switch-rated plugs and receptacles to simplify compliance without the use of cumbersome PPE for applications. Application examples such as wash-down rated equipment, process pumps, welding machines, exhaust fans, hoists and cranes, conveyors, compressors, power distribution, MCCs and mobile equipment will be covered.
Presented by: MELTRIC

SIMULATE WITH PLCSIM AND THE HMI SIMULATOR
12:30PM-1:15PM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

Learn how the Siemens PLC and HMI simulation capabilities built within the TIA Portal environment will shorten design, development and commissioning time. Test your PLC logic and HMI screens with this powerful software simulation tool.
Presented by: PCC

REALIZING ENGINEERING EFFICIENCIES - IMPLEMENTATION OF AUTOMATION SYSTEM DIAGNOSTICS
12:30PM-1:15PM | VENUE - DORTMUND
TOTALLY INTEGRATED AUTOMATION

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Presented by: SIEMENS AUTOMATION TECHNOLOGY

WORLD'S FIRST & ONLY MATRIX VFD - YASKAWA'S U1000
1:00PM-1:45PM | VENUE - DUSSELDORF
DRIVES & MOTION CONTROL

Do you have a motor application you wish you could make use of it's regenerative energy in another area of your facility rather then wasting it as heat or adding other components to do this? Do you wish that you could measure that energy saved in dollars? Would you like to be able to install a VFD and not worry about the harmonics that it creates on you power system? Yaskawa has the world's first and only Matrix VFD that can help you achieve all this and more! This seminar will discuss Yaskawa's U1000 VFD, voted the 2016 Engineers' Choice Award Winner in the drives and servo drives category. Learn how the Yaskawa's new matrix drive is redefining the drives industry!
Presented by: YASKAWA

LEARNING TO LET GO . . .OF THE CABLE; MOBILE COMMUNICATIONS IN THE DIGITAL ERA
1:00PM-1:45PM | VENUE - HAMBURG
NETWORKING

Discover how to selectively leverage the capabilities of wireless technology to design successful network architecture, fully equipped to meet the needs of your specific applications. This session will reveal key steps and design recommendations to bring wireless functionality to the plant floor such as: Understanding the Application; Simulation and Design; Wireless Site Survey; Verification of Installed System.
Presented by: SIEMENS INDUSTRIAL COMMUNICATIONS

Course Offerings & Schedule

KEYNOTE: NFPA FOR SAFETY'S SAKE
1:00PM-1:45PM | VENUE - BERLIN
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Keynote Speaker: Mark Cloutier
Presented by: NFPA

ARC FAULT AVOIDANCE & MITIGATION IN ELECTRICAL DISTRIBUTION EQUIPMENT
1:30PM-2:15PM | VENUE - MUNICH
SAFETY

This seminar will cover applicable industry standards and regulations, along with a list of arc fault avoidance and mitigation solutions to be considered to reduce hazardous arc fault risks while commissioning, operating and maintaining electrical distribution equipment. Additionally, an overview of what constitutes an arc fault and how it is different from a bolted fault will be explained in the seminar.
Presented by: SIEMENS INDUSTRIAL CONTROLS

TIA PORTAL V14 OVERVIEW
1:30PM-2:15PM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

In this session we will discuss and demonstrate the new features of TIA Portal V14. New features include enhanced motion control, team collaborative engineering, advanced simulation and more!
Presented by: SIEMENS AUTOMATION TECHNOLOGY

THE INDUSTRIAL INTERNET OF THINGS (IOT) - REMOTE ACCESS, DATA MONITORING AND M2M
2:00PM-2:45PM | VENUE - HAMBURG
NETWORKING

This seminar will cover the implementation of the IoT to achieve real-time communication with virtually any piece of automated equipment (e.g. PLC, HMI) found around the world. Utilizing VNC connectivity, secure VPN tunnels and cloud portal access is achieved via one central point. Users have the ability to monitor, control, capture data and receive notifications of issues via any PC based browser or mobile device. Imagine the ability to control, monitor and troubleshoot remote industrial equipment from virtually anywhere over an Internet connection!
Presented by: MBCONNECT LINE

WHAT'S NEW IN SIEMENS CONTROLS
2:00PM-2:45PM | VENUE - DUSSELDORF

Increase savings by decreasing panel build time, wiring, and space! This seminar will provide an overview of the Siemens control line including: The latest in modularity and connectivity in Sirius Controls.
- The latest in modularity and connectivity in Sirius Controls.
- Examine the space savings and integrated safety options with the 3RM1 Hybrid Motor Starter.
- The powerful new 3SK2 programmable safety relay is here with up to 20 safety inputs in one 45mm frame is streamlining safety solutions.
- The all new Sirius ACT Pilot Device with IP69K/NEMA 4X toughness now communicates with Profinet, I/O Link, and AS-Interface reducing wiring costs, improving diagnostics, and field commissioning times.
- Not to be outdone our Smart new SITOP PSU8600 40A and 20A power supplies also communicates on Profinet to give the ultimate in flexibility and protection for your control systems and IPCs by improving uptime, diagnostics, and commissioning in the most demanding applications.
Presented by: SIEMENS INDUSTRIAL CONTROLS

IS YOUR NETWORK SAFE? LEARN HOW TO SECURE YOUR NETWORK AND LOWER THE RISK OF A BREACH!
2:00PM-3:45PM | VENUE - NUREMBERG
NETWORKING

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BASICS OF SAFETY APPLICATIONS: LATEST STANDARDS & SAMPLE APPLICATIONS
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Presented by: SIEMENS INDUSTRIAL CONTROLS

Course Offerings & Schedule

SEE THE UNIFORM DIAGNOSTIC CONCEPT WITHIN TIA PORTAL
2:30PM-3:15PM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

Experience firsthand the incredible amount of diagnostic information that is available WITHOUT having to connect programming software to the controller to retrieve fault information. Learn about the S7-1500 PLC display, PLC Web Server and HMI System diagnostics viewer. Who wants to avoid the unnecessary plane ride?
Presented by: PCC

INTEGRATED DRIVES BASED SAFETY - SIMPLER & SAFER
2:30PM-4:15PM | VENUE - FRANKFURT
DRIVES & MOTION CONTROL

Integrated Drive Based Safety has powerful capability driving increased productivity, efficiency, and safety for their employees. In addition to covering the latest Safety Standards based on Risk Assessments, this workshop will demonstrate how Drive Based Safety Integrated functions work seamlessly into these tasks. Hands-on demonstration of basic and extended safety functions in Sinamics drives will provide for a clear vision of how Safety Integrated technology can provide innovation your plants and machines for the demands of today and the future.
Presented by: SIEMENS DRIVE TECHNOLOGIES

REALIZING ENGINEERING EFFICIENCIES - PLC BASED SAFETY CONFIGURATION AND PROGRAMMING
2:30PM-4:15PM | VENUE - DORTMUND
SAFETY

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Presented by: SIEMENS AUTOMATION TECHNOLOGY

SIMPLIFYING PLC & IT DATA TRANSFER FOR OPTIMIZED PRODUCTIVITY
3:00PM-3:45PM | VENUE - HAMBURG
NETWORKING

Learn about the latest software technologies and hardware appliances enabling bi-directional data exchange between plant floor machines and IT business systems. Applications include Production/Quality/Compliance data collection, Track & Trace (serialization), Overall Equipment Effectiveness (OEE) and Recipe/Manufacturing data management using Microsoft SQL and Oracle databases.
Presented by: SOFTING

KEYNOTE: U.S. DHS ON MANAGING CYBER RISK - CURRENT THREATS & DEFENSIVE STRATEGIES
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Keynote Speaker: Neil Hershfield
Presented by: DEPARTMENT OF HOMELAND SECURITY

WHAT'S NEW FROM SIEMENS - AUTOMATION INNOVATIONS, 2016
3:00PM-3:45PM | VENUE - DUSSELDORF
TOTALLY INTEGRATED AUTOMATION

Siemens SIMATIC S7-1500 controller family is a comprehensive portfolio offering extremely fast response times, drive integration, safety integrated, security integrated, easy commissioning and integrated system diagnostics for the full range of medium & high-end applications. Come learn more about this revolutionary product!
Presented by: SIEMENS AUTOMATION TECHNOLOGY

WAGO POWER & CURRENT MEASUREMENT SOLUTIONS
3:30PM-4:15PM | VENUE - MUNICH

This seminar will discuss WAGO's power and current measurement solutions and how they can be incorporated into new and existing control systems. Attendees will be provided with a review of the benefits of power measurement, terms and definitions, various current measurement technology and a demonstration of WAGO's 3phase power measurement system.
Presented by: WAGO

INFORMATION FLOW IN THE DIGITAL FACTORY
3:30PM-4:15PM | VENUE - COLOGNE
TOTALLY INTEGRATED AUTOMATION

The amount of information on the factory floor can be overwhelming. Learn how WinCC can use the information from the factory floor and provide real time reports on the performance of the plant. Information flow is the key to production analysis and optimization for manufacturing today. Let us show you how WinCC can help manage the information flow from the factory floor up to the business systems to make smarter decisions.
Presented by: SIEMENS AUTOMATION TECHNOLOGY

Exhibitor Profiles

ARBOR TECHNOLOGY CORP.

With more than 20 years' experience in embedded computing, ARBOR continues to expand its expertise in industrial computing making ARBOR a leading supplier of computing platforms and solutions. ARBOR Technology features a wide range of computing products engineered for operation in harsh environments and industrial use. Their modular designs and range of form factors allow the products to serve a variety of applications. Combined with turnkey solutions, progressive design capabilities and responsive manufacturing practices, ARBOR is absolutely your ideal partner to empower your smart business.

CARLO GAVAZZI

Carlo Gavazzi designs and manufactures electronic control components for the global building and industrial automation markets in its ISO 90001 certified factories around the world. The products (sensors, monitoring relays, timers, energy management systems, solid state relays, electronic motor controllers, safety devices and fieldbus systems) provide automation solutions for the industrial and building automation markets.

COMTROL

For more than 30 years, Comtrol Corporation has been a manufacturer and provider of quality networking and industrial data communication products, specializing in industrial Ethernet and device connectivity. Comtrol sells RocketLinx® industrial grade Ethernet and Power over Ethernet switches, DeviceMaster® Ethernet device servers and gateways and RocketPort® multiport serial cards. Providing exceptional products and technical support, Comtrol establishes solutions for a wide range of security, energy, industrial automation and traffic and transportation applications.

HAMMOND MANUFACTURING

Hammond Manufacturing is a global company with customers worldwide. High performance manufacturing equipment and continuous improvement management techniques combine to enhance their reputation for quality. Ongoing efforts to differentiate themselves through high levels of service and customer satisfaction are a key corporate focus. The core products for Hammond Manufacturing are electrical and electronic enclosures, racks and cabinets, power bars and electronic transformers. Hammond offers a broad range of standard products, modification services and technical support to electrical and electronic manufacturers, utilities and institutions.

HELLERMANNTYTON

HellermannTyton is a leading, global manufacturer of systems and solutions which help world-class customers better manage and identify wire, cable, and components. Located in over 30 countries, HellermannTyton offers an integrated approach in the design, manufacturing, and delivery of its products which result in higher quality and lower costs for their customers.

SYSTEME HELMHOLZ

Systeme Helmholz GmbH is your first choice for high-quality, low-cost automation solutions and components. Established in 1988, Systeme Helmholz GmbH is a successful, independent and global operating company with the focus on industrial automation & communication. Based on extensive know-how in industrial automation, they develop, manufacture, and sell a wide range of products for PLC applications, network gateways & network components, remote service, and distributed I/O.

Exhibitor Profiles

LED2WORK

The beginnings of the commercialization of LED technology are closely linked to the beginnings of LED-2WORK GmbH. The requirement of the industry for sustainable and economic lighting, as well as interest in the new technology, led to the emergence of LED-2WORK GmbH in 2007.

At the beginning of professional LED lighting in particular, high and above all consistent quality, well-installed luminaires and stable casings for industrial use were in short supply. LED2WORK luminaires are among the most reliable of products and are used in great numbers in the industrial sphere as well as for the lighting of workplaces.

MB CONNECT LINE

As a technology leader, MB connect line GmbH sets the pace in industrial data communication and remote maintenance of machines and equipment via the Internet. They consistently focus on transforming the technically feasible into practical and economical solutions, so that you as a user have the optimum benefit. MB connect line offers universal solutions for worldwide remote maintenance of machines and equipment. Their remote maintenance solution turns your service department into a profit center.

MELTRIC

Meltric Corporation's complete line of industrial duty plugs and receptacles are manufactured in a state of the art facility in Franklin, Wisconsin. They are focused on providing the best overall value by offering the safest, highest quality and most reliable plugs and receptacles and by backing them with outstanding service and support. Meltric's Decontactor series are the world's only UL and CSA switch rated plugs and receptacles.

MOLEX

Molex is a leading one-source supplier of interconnect products. Their Brad® communication and control products are designed to support and facilitate the networks that automate today's and tomorrow's premier global industrial applications. Molex supports the most popular industrial networks and fieldbuses – Ethernet, DeviceNet, PROFIBUS and others with a variety of products and solutions.

PROSOFT TECHNOLOGY

ProSoft Technology specializes in the development of communication solutions compatible with the large automation suppliers' controllers. The primary focus is to provide connectivity solutions that link dissimilar automation products. ProSoft Technology provides field proven connectivity and communication solutions that bridge between various automation products as seamlessly as if they were all from the same supplier.

SOFTING

Softing Industrial is a strategic partner in the industrial automation sector with more than 35 years of experience in the areas of fieldbuses and Industrial Ethernet. Softing Industrial develops and markets a wide range of software and hardware products for a variety of applications in every industry, from technology and data integration, through communication and infrastructure components, to network monitoring and diagnostics.

Exhibitor Profiles

STOBER

STOBER produces the highest quality gearboxes in the world. With over 80 years of gearing experience, STOBER is the gold standard. They build and ship in one day, complete quotes within one hour, and are available 24 hours a day, 7 days a week. Their motion control products are backed by a five year warranty, and their power transmission products are backed by a three year warranty.

TR ELECTRONIC

TR-Electronic develops, manufactures and sells sensors and actuators for industrial applications. Products in the Rotary Encoders Business Unit with optical or magnetic scanning are required to detect the angular movement of a rotating shaft. Magnetostrictive linear encoders measure the position of a linear movement without contact, for example in a hydraulic cylinder. Intelligent compact drives from the Motion Business Unit are used as actuators or, in the high-end version, as process drives. To complement their product portfolio TR Electronic also partners to sell both the Di-soric and Microsonic lines of sensors in North America.

WAGO

As the innovators of the world renowned CAGE CLAMP concept, WAGO has been the world leader for more than a half century in the design and manufacture of terminations systems incorporating screw-less, spring pressure, wire termination technology. In contrast to traditional screw-type termination WAGO's screwless, spring pressure technology can reduce wiring time by up to 75% with a vibration proof, corrosion resistant, temperature cycling resistant connection – every time.

WAGO'S INNOVATION IN AUTOMATION TOUR (IIAT) - MOBILE TRADESHOW

WAGO's Innovation in Automation Tour (IIAT) is in its eighth tour of North America. The Innovative mobile tradeshow will bring a range of Automation, Interface and Interconnect solutions to PCC for customers looking to enhance process efficiency and reliability. The vehicle features new products, with interactive pick-and-play displays, free product samples and literature.

YASKAWA

Yaskawa America, Inc. – Drives & Motion Division is a U.S. corporation, created to provide Automation Solutions and Support to customers in North America, Central America, and South America. Yaskawa is the world's largest manufacturer of AC Inverter Drives, Servo and Motion Control, and Robotics Automation Systems. Their drives cover every automation application need in the industrial plant incorporating the latest technological advancements in AC motor speed control, made possible by experience and dedication to quality in design and manufacturing.

Exhibitor Profiles

PROFESSIONAL CONTROL CORPORATION - PCC

PCC is an industrial automation, power distribution and electrical controls distributor for Siemens and other world-class technology providers, serving the Wisconsin and Minnesota manufacturing industry for over 35 years.

SIEMENS INDUSTRIAL CONTROLS

Today's market demands unprecedented efficiency best found in products designed to be flexible and dependable. One true measure of effective industrial performance is the ability of the technology you employ to produce real competitive advantages. With a comprehensive industrial control technology offering, Siemens provides just that at practically every level of your facility.

SIEMENS AUTOMATION TECHNOLOGY

From A to Z, Siemens is the world's single-source leader of automation technology products engineered and manufactured for all industrial sectors. Their best-in-class automation technology products are designed to perfectly match all of your requirements – and are enhanced by extensive training, service and support.

SIEMENS DRIVE TECHNOLOGIES

Complete Drive Systems for Greater Productivity, Energy-Efficiency and Reliability. From gears, couplings, and electric motors, to variable speed drives, their solutions for drive trains ensure maximum productivity, energy-efficiency and reliability for all torque ranges, performance classes, and voltage specifications. Siemens technologies include standard products, industry-specific control and drive solutions, as well as mechatronics support and online services for web-based fault management and preventive maintenance.

SIEMENS PROCESS INSTRUMENTATION

Siemens comprehensive process instrumentation portfolio offers best-in-class transmitters for the widest range of applications. Whether you want to measure pressure, temperature, flow or level, they offer a unique portfolio of process instruments. To complement their product range, they also offer electro-pneumatic positioners, process controllers and process recorders. Siemens Process Instrumentation is represented by PCC's partner – Lesman Instrument Company

SIEMENS INDUSTRIAL COMMUNICATIONS

Industrial communication with products and systems from Siemens ensure greater company-wide efficiency. Their best-in-class components like SIMATIC NET are based on proven standards, which allow you to implement powerful, integrated data networks that are "future-proof." From simple sensor connecting to plant-wide quality and productions data acquisition and transmission - their comprehensive industrial communications solutions allow efficient integration of all company areas into one coherent system.