

Join us for an exciting technology transfer event with a wide-range of free, informative seminars. The trade show is open from 8:00 am until 5:00 pm and features table top demonstrations from the companies listed below. Seminars begin at 8:30 am and last until 5:00 pm. All seminars are one hour unless noted otherwise. Our Tailgate style feast is available from 11:30 am until 4:30 pm.

## SPONSORS

**SIEMENS**  
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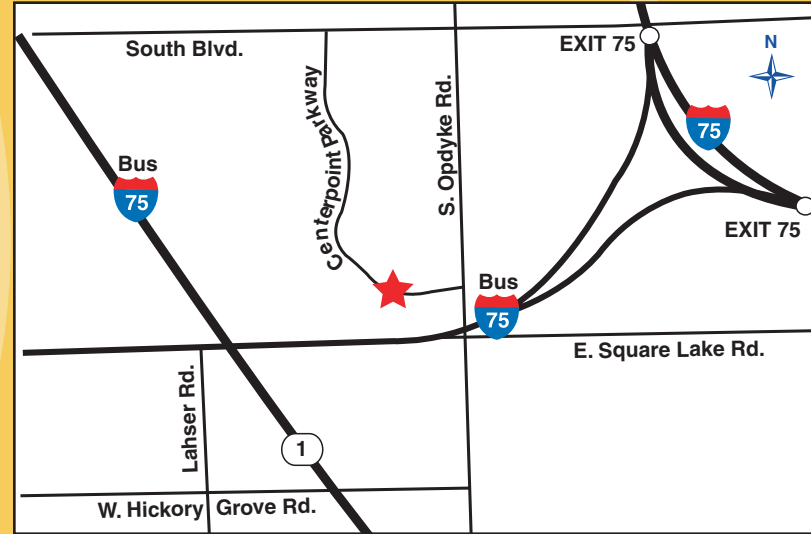
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## EVENT LOCATION



### Marriott® Pontiac at Centerpoint

3600 Centerpoint Parkway • Pontiac, MI 48341 • P: 248-253-9800

The hotel can be reached by taking I-75 N if coming from the south or by taking I-75 S if coming from the north. Those coming from the west can take I-696 to Woodward Avenue. Then, take Woodward Avenue north to Square Lake Road. More detailed directions can be obtained from your favorite online source such as [www.mapquest.com](http://www.mapquest.com).

## REGISTRATION

You can register for the event at [www.electro-matic.com](http://www.electro-matic.com). The registration link is located on the homepage. If registering for more than one person, please register each person individually. If you have any questions, please contact our event coordinator, Evelyn Chou, at 248-442-2902 or email her at [echou@electro-matic.com](mailto:echou@electro-matic.com).

**ELECTRO-MATIC**  
PRODUCTS, INC

23409 Industrial Park Ct.  
Farmington Hills, MI 48335  
P: 248-478-1182 • F: 248-478-1472  
[www.electro-matic.com](http://www.electro-matic.com)

8560 Centre Industrial Ct., SW, Suite 6  
Byron Center, MI 49315  
P: 888-273-6164

2868 Westway Drive, Suite G  
Brunswick, OH 44212  
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**PONTIAC, MI • MARCH 18, 2010**

**ELECTRO-MATIC**  
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**SIEMENS**

**EPLAN** **RITTAL**

# SEMINAR DESCRIPTIONS

FOR COMPLETE DESCRIPTIONS, SCHEDULE AND REGISTRATION, LOG ON TO [WWW.ELECTRO-MATIC.COM](http://WWW.ELECTRO-MATIC.COM)

## Automotive Applications for Wireless Profinet/Industrial Ethernet Using Scalance W

**Siemens • 9:30 am**

Attendees will be learn about two automotive AS/RS applications using Siemens Scalance W wireless switch technology. An overview of each project and the motivation (business case) for using wireless will be discussed. The network architecture and components, including Scalance W, S7300F CPU, ET200S, and WinCC Flexible HMI, will be reviewed as well as what methods were used to confirm the proof of concept.

## Avoid Costly Rework and Delays in Enclosure Design & Build

**EPLAN • 11:30 am**

Learn how to leverage wiring and component data from electrical designs in creating 3D panel and entire enclosure layouts using the EPLAN Platform. Examples will include incorporating Siemens parts data from an integrated component database into electrical designs; placing components from project BOM onto an enclosure model selected from the integrated Rittal RiCAD catalogue; automatically routing wires per project point-to-point wire list; transferring manufacturing data to wire processing and NC machines, and other innovative tools to efficiently and accurately design and build enclosures.

## Drag Chain / Catrac Technology

**Electro-Matic • 1:00 pm**

This seminar will cover the technologies needed to properly replace cable and hose carriers found in automation, machine tool and other applications. The focus will be the factors that influence the lifetime of cable and hose carriers and preventive maintenance measures to extend its lifetime. Industry expert Flori Vogler will host this seminar

## Easy Integration of 3rd Party PLC with Simatic HMI Panels

**Siemens • 9:30 am, 4:00 pm (1/2 Hour)**

HMI panels are able to communicate to a host of 3rd party PLCs thanks to native communication drivers which are built into the panels themselves. Come see what type of communication options exist for your current automation solution. Topics will also include advance remote connectivity features of the HMI panels, as well as the integrated webserver.

## Energy Savings and Energy Recovery

**Siemens • 11:00 am, 3:00 pm**

Attendees will learn how Siemens' "Energy Savings Financing Program" makes it easy to purchase Energy-efficient variable frequency drive systems that help to reduce energy costs and downtime while improving production quality. Learn how Siemens Variable Frequency Drives can help you tap into the potential savings through increased efficiency, improved energy usage, and untapped energy recovery.

## Ethernet Based Automation

**Siemens • 8:30 am, 3:00 pm**

No doubt you've heard the buzz about Ethernet networks being employed all over the factory floor, but perhaps you're not quite sure what to make of it. You will learn the benefits for Ethernet based systems and PROFINET including: simplified connectivity, comprehensive diagnostics, and increased reliability.

## Green' Trends in Climate Control for Industrial Applications

**Rittal • 10:30 am**

A look at new technology employed in climate control for industrial applications allowing for reduced power consumption, lower maintenance costs and elimination of condensate drip bottles and filter waste.

## Industrial Controls and Circuit Protection

**Siemens • 2:00 pm**

Increase savings by decreasing panel build time, wiring, and space. Learn how to use the latest in modularity and connectivity in IEC controls and circuit protection. Eliminate three phase power wiring and discrete control wiring using the new Compact Starter featuring expandable three phase bus system with AS-I and Flex I-O network connectivity. Go modular with the new M200D Machine Mounted IP65 Motor Starters.

## Integrating Electrical Design and PLC Programming

**EPLAN and Electro-Matic • 2:00 pm**

Session will show optimum integration of design and manufacturing operations

through a bi-directional control data synchronization between Siemens STEP 7 and EPLAN Electric P8.

## MES Session

**Siemens • 2:00 pm**

With today's economy, Manufacturers need to focus on improving their current plant efficiency more than ever, as new lines and new plants are beyond their financial reach. Using business demand to drive the coordination of the plant floor can provide synchronization and optimization of your manufacturing process.

## Modular Safety System (MSS)

**Siemens • 2:00 pm**

Simplify wiring of multiple safety functions See for yourself how flexible and efficient integrated safety can be. SIRIUS MSS, the new modular and software-parameterizable safety system, is our latest expansion of our comprehensive safety technology portfolio. Benefit from this integrated and safe platform for your machine and system availability. Advantages include modular flexibility and communication capabilities to higher level control systems. Cost savings are realized with the fast and easy parameterization MSS ES software.

## Modularity Contributes to Cost Savings in Modern Panel Designs

**Rittal • 9:30 am**

A look at how total panel costs can be reduced using modular Enclosure technology and small bus systems, resulting in reduced space requirements, easier assembly tasks, increased flexibility on design changes and lower system freight costs.

## Power Fast Technology

**Turck • 9:30 am**

Save time and money with Turck's easy to install quick disconnect power connectors. Turck's powerfast product line is the ideal solution for a complete power distribution system. While supplying up to 30 amps of power for motors and other devices, Turck's quick disconnect power connectors can also provide up to an estimated 40% cost savings over traditional conduit installations.

## Power of Siemens' New Micro PLC

**Siemens • 8:30 am, 1:00 pm**

This will be a 60 minute seminar focusing on the newest Siemens PLC, the S7-1200. This product has been released in

conjunction with a new series of economy HMIs called the Basic Panel series, as well as a new programming software which will be the future of all Siemens automation programming moving forward.

## Production Machine

**Siemens • 1:00 pm and 3:00 pm**

Siemens Motion Control is the means to provide users with a superior platform capable of performing the most simple or demanding tasks. This seminar will expose attendees to the full portfolio extending from Single axis AC drives to Multi-axis common bus drives. A full demonstration of the latest product, the Sinamics S110 will illustrate the Siemens approach to a fully capable yet economical motion control platform.

## Safety Integrated

**Siemens • 3:00 pm**

An introduction to the Safety Integrated concept by Siemens. Topic include discussions on standards, the evolution of the safety plc, safety networks, and how to get started with safety.

## Save Energy & Reduce Maintenance Costs by Utilizing LED Lighting

**Lumasmart • 8:30 am**

Get a birds eye view of LED lighting from a factory representative, see examples and get the information you need to start saving energy with LED Lighting.

## Save Time and Money with Simocode Motor Management Systems

**Siemens • 1:00 pm**

By attending this seminar you will learn how you can decrease your total cost of ownership when integrating Simocode 3UF Motor Management into your Automation System. The presentation will cover how you can reduce your installed cost in the design, engineering and installation phase of the project as well as the operational and maintenance benefits that will provide repeated, long term benefits.

## Seeing is Believing

**Siemens • 10:30 am**

Witness live demonstrations on how to connect PLCs from different vendors together using

Component Based Automation (CBA) from Siemens. CBA is a technology that allows PLC interlocks to be defined in a flexible, graphical environment that can be modified without changing ladder logic. Add machines, make changes or expand your production process using simple graphical engineering tool—no communications code required!

## SIFACS: Siemens Flexible Assembly Configuration System

**Siemens • 10:30 am**

This seminar demonstrates a Powertrain all comprehensive assembly solution system developed by Siemens together with US Automotive customer including: complete solution from process planning to shop floor execution, management, planning and the re-use of plant optimizations.

## SINAMICS G120 Drive Hands On

**Siemens • 9:30 am (2 Hour)**

This seminar focuses on features of the G120 such as Modularity of Design, Integrated Safety, and Efficient Infeed Technology that make this drive more than the traditional general purpose drive. In addition to gaining product and application knowledge, attendees will gain an understanding of how to configure and commission the Sinamics G120 drive through hands-on exercises. Limited to 10 attendees.

## TISTAR Smart MCCs/SIMOCODE

**Siemens • 10:00 am**

This seminar will discuss the application of Smart MCC technology to standard and predictive maintenance practices used to maximize motor life and help limit unplanned maintenance. TIASTAR Smart MCC utilizing the Simocode Pro provides the following information for time-based maintenance: Number of starts, total hours of running time for the motor, number of overload trips, 3 phase current, 3 phase voltage, Watts and VA, voltage imbalance, COS-PHI, motor model heating, RTD inputs for motor winding temperature, and more.

## Trapped Key Solutions to Machine Safety

**Fortress • 8:30 am**

The seminar will highlight an alternative method of gaining access without the use of electrical gate switches.

## Turck Solutions for the Automotive Welding Environment

**Turck • 1:00 pm**

Turck will present proven solutions for solving sensor and cable problems in automotive welding applications.

## Understanding the Advantages of Siemens 8DA/B10 MV Gas Insulated Switchgear (GIS)

**Siemens • 11:30 am**

Achieve more with Siemens 8DA/B10 GIS through greater safety with our ISO phase arc resistant design in significantly reduced PPE. Maximize revenue with reduced maintenance and extended maintenance intervals. Design in a smaller footprint than metal clad with greater reliability and flexibility. Siemens GIS delivers a lower cost of total ownership.

## Using Freewave Radios in Renewable Energy and Smart Grid

**Feewave • 2:00 pm**

Join this seminar to learn about: benefits of Frequency Hopping Spread Spectrum RF technology, Remote Long Range (up to 60mi) PLC Programming, and Long Range Industrial Wireless Application Examples - use cases in wind energy, solar power, and the smart grid will be discussed.

## What You "Need" to Know About Arc Flash Hazard Assessments

**Littelfuse • 11:30 am**

This course will include the following topics: what is needed to comply, the 9 step process for Arc Flash Hazard Assessment, common misconceptions and mistakes made when doing "hazard" assessments, how to use the 2009 Edition NFPA70E Tables for hazard assessments, methods for lowering hazards, should companies outsource an electrical hazard assessment, and suggestions and checklist for creating a Arc Flash Hazard Analysis Plan.

## WinCC Flex—Innovative HMI

**EMP • 8:30 am, 3:00 pm**

An introductory class on using the tools to configure Siemens HMI systems and the connectivity options available. (Ethernet I/P, PROFINET, PROFIBUS etc.) System features that provide cost advantages for machine control & data collection.