

Open House

*Hands-on workshops and product demonstrations
Automation, Controls, Drives and Networking*



Where: 5901 Corvette Street, Commerce, CA 90040
When: Tuesday, December 4th, 2018 10:00 AM - 6:00 PM

VPN Networks and SCADA Solutions

- ❖ Conference Area - Live presentations and hands-on customer interaction
 - **Every hour on the hour starting at 10am until 6pm**
 - Hosted by: Charlie Black
 - Promotional packages available for this area the day of the event only!
- ⇒ Experience Remote Access with SINEMA RC from Siemens
 - ◆ A live presentation on using a web-based management software for configuring and monitoring remote networks. SINEMA Remote Connect provides users access to remote plants or machines for convenient and secure remote maintenance, diagnostics and supervisory control and data acquisition (SCADA).
 - Demonstration of how to configure SINEMA RC Server
 - Demonstration of how to configure S615 LAN Routers
 - Demonstration of how to configure M876 Cellular Routers
- ⇒ Experience Network Diagnostics with SINEMA Server from Siemens
 - ◆ A live presentation on using a web-based management software for configuring and monitoring industrial ethernet networks. SINEMA Server allows networks in an automation environment to be analyzed and monitored using standardized diagnostics.
 - Demonstration how to configure SINEMA Server
- ⇒ Experience SCADA Systems with WinCC from Siemens
 - ◆ A live presentation on a supervisory control and data acquisition and human-machine interface system for supervisory management of automation systems. SIMATIC WinCC is a supervisory control and data acquisition and human-machine interface used to monitor and control physical processes involved in industry and infrastructure.
 - Demonstration of how to configure SIMATIC WinCC Professional in the TIA Portal
 - Demonstration of how to configure OPC-UA using SINEMA Server
- ⇒ Experience Wi-Fi Networks with SCALANCE W from Siemens
 - ◆ A live presentation on wireless communication with Industrial Wireless LAN for continuous information flow from the management level down to the production level. SCALANCE W

Industrial Wireless LAN (IWLAN) technology provides an extension to the IEEE 802.11 standard that is particularly suited for demanding industrial applications with real-time and redundancy requirements.

- Demonstration and Hands-on workshop for setting up and configuring mobile end devices for diagnostics and data acquisition on a live network.
 - **Bring your mobile device to participate.**

Programmable Logic Controller Workshop

- ❖ Training Room Area – Live hands-on customer interaction
 - **Open format starting at 10am until 6pm... first come, first serve**
 - Hosted by: David Darnell
 - Promotional packages available for this area the day of the event only!

- ⇒ Experience hands-on programming of an automation project using the SIEMENS TIA Portal
 - ◆ Hands-on programming lab with Siemens TIA Portal, the ultimate engineering tool for configuring and programming an automation project. SIMATIC STEP 7 (TIA-Portal) helps you solve your engineering tasks intuitively and efficiently. Due to its integration into the TIA Portal, STEP 7 offers impressive performance in every work and programming step thanks to its transparency, intelligent user navigation and straightforward workflows.
 - Hands-on lab on setting up a SIMATIC S7-1200 controller
 - Configure an automation project for the controller
 - Configure the hardware profile
 - Configure the ladder logic program
 - Configure the tag library
 - Download to the SIMATIC S7-1200 controller
 - Go on-line with the controller for monitoring
 - Hands-on lab on setting up a SIMATIC KTP700 operator interface panel
 - Configure an automation project for the operator interface panel
 - Configure a network connection to the controller
 - Configure an input button
 - Configure an output field
 - Download to the SIMATIC KTP700 operator interface panel
 - Verify that button and output field are working correctly
 - Hardware and software will be provided

Professional Engineering Services

- ❖ Engineering Area – Socialize and mingle
 - **Open format starting at 10am until 6pm**
 - Hosted by: Soffa Electric Yvette Quattrocchi

- ⇒ Experience over 40 years of knowledge engineering, design and start-up in the industrial automation marketplace. Have a conversation with senior application engineers and/or experienced

project managers who have been doing automation projects for decades. Soffa Electric staff engineers provide system engineering and integration. Our programmers are experienced in a wide range of PLCs and HMIs and our technicians ensure proper installation, wiring, and calibration of field instruments. In addition, our UL Listed panel shop, in business since 1974, provides for custom panel building.

- ◆ Talk about engineering services
 - Automation
 - Networks
 - SCADA

Professional Panel Shop Assembly

- ❖ Panel Shop Area - Socialize and mingle
 - **Open format starting at 10am until 6pm**
 - Hosted by Danny Banez

⇒ Experience over 40 years of knowledge of control panels for factories to monitor and control machines or production lines. Soffa Electric provides panel layout and build in the industrial automation industry and are a UL Listed panel shop that provides custom panel building.

- ◆ Walk-thru and see control panels being assembled.
 - Panels being built for
 - Water/Wastewater facilities
 - Roofing Tile manufacturer
 - Power and Utilities
 - Metropolitan Water District (MWD)
 - Recycling Industry
 - OEMs

The Distributed Control System for Integrated Automation

- ❖ Contract Manufacturing Area – Socialize and mingle
 - **Open format starting at 10am until 6pm**
 - Hosted by Amy Hoogenboom and Victor Bast

⇒ Learn about much more than a traditional distributed control system (DCS): SIMATIC PCS 7 combines a unique scalable architecture with powerful engineering tools and a wide variety of additional functions such as alarm management, process safety and asset management, all of which can be integrated seamlessly into your existing environment. SIMATIC PCS 7 has everything you need to completely and safely automate your entire production process, from goods receipt to goods issue, in both manufacturing and process plants.

- ◆ A live presentation on the process control system for all requirements monitoring.
 - Talk about System Components
 - Engineering System
 - Plant Automation Accelerator
 - Operator System

- Plant Device Management
- System Libraries
- Automation Systems
- Industrial Communication
- Distributed I/O
- Process data archiving and reporting
- Batch Automation
- Industrial Security
- Compact Systems
- SIMATIC PCS 7 with Safety Integrated
- System Administration
- Route Control

Professional Contract Manufacturing Services

- ❖ Contract Manufacturing Area - Socialize and mingle
 - **Open format starting at 10am until 6pm**
 - Hosted by Robert Karkafi and Ara Hakopian

- ⇒ Experience in-house engineering and assembly personnel can provide you with all your needs under one roof.
 - ◆ We supply our customers with design review, enclosure modifications, panel assembly and wiring, cable assemblies, engineering and documentation, and custom crating if required.
 - Walk-thru and see control panels being assembled

- ⇒ Experience Production Scheduling through smartsheet
 - ◆ A live presentation on production scheduling system using a web-based management software for configuring and monitoring.
 - Live demonstration on production scheduling software
 - Demand management
 - Customer engagement
 - Production pipeline tracking

- ⇒ Experience Engineering of Control Panels using Autodesk and Autodesk Inventor
 - ◆ A live presentation on design and layout of control panels.
 - Live demonstration on control panel engineering and design
 - CAD support and engineering services
 - ◆ Modeling flexibility
 - ◆ AnyCAD data
 - ◆ Automation
 - ◆ Parametric modeling

Motor Starters on the SIMATIC ET 200SP distributed I/O system Workshop

- ❖ Contract Manufacturing Area – Live hands-on customer interaction
 - **Open format starting at 10am until 6pm... first come, first serve**
 - Hosted by: Joseph Faragalla
 - **Promotional packages available for this area the day of the event only!**

- ⇒ Experience hands-on assembly of motor starters that are integrated in a distributed I/O System
 - ◆ Learn how to assemble the Siemens ET200SP distributed I/O station with a Profinet interface module and three (3) motor starters
 - Complete concept from drawing to assembly
 - Read Professional CAD Drawing
 - Assemble equipment on DIN rail
 - Wire motor starters
 - ◆ Line (Infeed) wires
 - ◆ Load wires
 - ◆ **Hardware will be provided**

Command Controls on a ProfiNet Network Workshop

- ❖ Contract Manufacturing Area – Live hands-on customer interaction
 - **Open format starting at 10am until 6pm... first come, first serve**
 - Hosted by: Shafi Mith
 - **Promotional packages available for this area the day of the event only!**

- ⇒ Experience hands-on assembly of command controls integrated in a ProfiNet network
 - ◆ Learn how to assemble the Siemens SIRIUS ACT command controls with a Profinet interface module along with four (4) push buttons and four (4) pilot lights
 - Complete concept from drawing to assembly
 - Read Professional CAD Drawing
 - ◆ Assemble equipment on back panel
 - ◆ Wire the ProfiNet module to
 - Push buttons – Quantity 4
 - Signaling lights – Quantity 4
 - ◆ Test your configuration by connecting to a SIMATIC S7-1200 PLC
 - Push buttons and experience the signaling lights illuminate
 - Push buttons – Quantity 4
 - **Hardware will be provided**

Variable Frequency Drive Workshop

- ❖ Drives Technology Area - Live presentations and hands-on customer interaction
 - **Open format starting at 10am until 6pm... first come, first serve**
 - Hosted by: John Hoefle
 - **Promotional packages available for this area the day of the event only!**

- ⇒ Experience Smart Access with the SINAMICS G120 SCALANCE W from Siemens
 - ◆ A live presentation on wireless communication with a Smart Access and SINAMICS G120. Siemens has extended its SINAMICS G120 converter series portfolio to include an option for wireless commissioning, diagnostics and servicing.
 - Demonstration and Hands-on workshop for setting up and configuring mobile end devices for wireless commissioning, diagnostics and servicing.
 - **Bring your mobile device to participate.**

- ⇒ Experience SINAMICS G120 convertor communicating with multiple controllers
 - ◆ A live presentation on a SINAMICS G120 communicating with different programmable logic controllers' platforms. This SINAMICS G120 is the universal drive to address the widest range of application requirements.
 - Pumping
 - Ventilating
 - Compressing
 - Moving
 - **Demonstration of how to configure SINAMICS G120 with another manufacturer's controller**

Professional Engineered Drive System Services

- ❖ Drives Technology Area - Socialize and mingle
 - **Open format starting at 10am until 6pm**
 - Hosted by Robert Karkafi

- ⇒ Experience Engineered Drive Systems free standing drives
 - ◆ Fully engineered and tested drive enclosures. The entire enclosure is certified to comply with UL. This proven design and third-party approval allow engineering resources to focus on applications, not the hardware. The SINAMICS G120 inverter is designed to provide precise and cost-effective speed/torque control of three-phase motors. With different device versions (frame sizes FSA to FSGX) in an output range of 0.37 kW to 250 kW (0.5 hp to 400 hp), it is suitable for a wide variety of drive solutions.
 - Walk-thru and see drive systems

- ⇒ Experience the modular SINAMICS G120 converter system
 - ◆ Observe a SINAMICS G120 150HP AC Low-voltage converter assembly
 - Featuring

- 3-contactor bypass
- Line side passive harmonic filter
- Line side fast acting semiconductor fuses
- Load side dv/dt filter
- ◆ This modular design and wide range of power ratings extending from 0.55 up to 250 kW will always ensure that you can configure the optimum converter for your particular application. The converter series is available in three voltage variants for connection to 200 V, 400 V and 690 V power supply networks.
 - The three components consist of:
 - Power Module
 - Control Unit
 - Optional Operator Unit
 - ◆ **Walk-thru and see drive systems**

The Wall of Technology

- ❖ Vendor Alley - Socialize and mingle
 - **Open format starting at 10am until 6pm**
 - Hosted by Siemens:
 - John Hunt – Automation Specialist
 - Sarah Al-Qaysi – Industrial Controls Product Consultant
 - Matt Poremba – Industrial PC Product Specialist
 - Azad Jafari – Industrial Communications Product Specialist
 - Doug Falt – Drives Technology
- ⇒ Experience Automation Technology from Siemens
 - ◆ Demonstrations of Siemens Automation Technology.
 - Automation technology from Siemens contributes decisively to the continuous optimization of your company-wide processes. Totally Integrated Automation, the unique, uniform range of products and systems for automation in the manufacturing and process industry, forms the core of our portfolio. It provides the optimum basis for solutions that are perfectly tailored to your individual requirements.
- ⇒ Experience Industrial Controls from Siemens
 - ◆ Demonstrations of Siemens Industrial Controls.
 - When it comes to the Internet of Things (IoT), automation products have been able to give manufacturers advanced communications capabilities to keep up with new demands to collect information. Siemens control products provide components that do exactly that.
- ⇒ Experience Industrial Computers from Siemens
 - ◆ Demonstrations of Siemens Industrial Computers.
 - In manufacturing and production, linking information across all corporate levels increases the demands placed on the computing power, functioning, and availability of industrial PCs

- ⇒ Experience Industrial Networks from Siemens
 - ◆ Demonstrations of Siemens Industrial Networks
 - In manufacturing and production, linking information across all corporate levels increases the demands placed on the computing power, functioning, and availability of industrial PCs
 - ⇒ Experience Industrial Drives from Siemens
 - Demonstrations of Siemens Industrial Drives
 - Whatever your situation, industry or specification, Siemens offers the AC drive that fits your needs - from out-of-the-box; ready-to-use "shaft-turner" drives to servo drives that define the future of industrial production
- ◆ **Talk to all of the experts on the above topics**

Full Load Testing Equipment for Drives and Motors

- ❖ EDS-100 Full Load Testing Area – Socialize and mingle
 - **Open format starting at 10am until 6pm**
 - Hosted by Richard Price
- ⇒ Check out our new, state-of-the-art motor and drive testing facility featuring Siemens, high performance S150 regenerative drive along with load and test motors for full load testing on any manufacturer's drive and motor up to 300hp.
 - ◆ **Talk about full load testing for your drive system**

Worldwide Interoperability for Microwave Access

- ❖ RUGGEDCOM WiN Area - Live presentations
 - **Open format starting at 10am until 6pm**
 - Hosted by: Mike Dalton
- ⇒ Experience Wide area private wireless systems.
 - ◆ A live presentation on Siemens RUGGEDCOM WIN series. This product is the first broadband wireless product portfolio designed for private networks, delivering the benefits of carrier-grade 4G technology to critical infrastructure applications in harsh environments.
 - **Demonstration on RUGGEDCOM Base Station and two subscribers**

