GERMAN TECHNOLOGY DAY 2019
- Industry 4.0 Solutions -

AGENDA

Morning Session

8:30am - 9:00am   **Registration, Breakfast & Exhibits**

9:00am - 12:00pm   *PILZ: Industry 4.0 functionally safe operating mode selection and access permission in one unit*

Rittal Value Chain: Innovation, Automation and Process Optimization for Industry 4.0

WAGO: Industrial IoT Cloud access with Ignition SCADA, Sparkplug Protocol and Docker Platform

EPLAN: Smart Panel, Digital Twin, Connected Manufacturing: Industry 4.0 at its best

12:00pm - 1:00pm   **Luncheon Keynote & Exhibits** (open to attendees of both sessions)
Gurvinder Chopra of Electro-Federation Canada: *The Synergy between Innovation & Standardization*

Afternoon Session

1:00pm - 4:00pm   *WAGO: IIoT with Docker Platform*

EPLAN: Smart Panel, Digital Twin, Connected Manufacturing: Industry 4.0 at its best

PILZ: Industry 4.0 functionally safe operating mode selection and access permission in one unit

Rittal Value Chain: Innovation, Automation and Process Optimization for Industry 4.0

4:00pm - 4:30pm   **Networking & Exhibits**

Presented by :

Session Descriptions

Keynote: The Synergy between Innovation and Standardization
Speaker: Gurvinder Chopra, Electro-Federation Canada

While Innovation is taking place at the speed of light in Germany, the electrical industry in Canada is yet to pick up the pace. A closer look at the role of standards in innovation, focusing on the electrical and manufacturing sectors.

• Standards reduce redundant product development, freeing up resources
• Open up new markets and trade, by exploiting network effects
• Foster innovation through collaboration by sharing investments & risks

Smart Panel, Digital Twin, Connected Manufacturing: Industry 4.0 at its best
Speaker: Roland Younk, President, EPLAN Canada

The digital twin will help us in a digital production process, mainly automatic. Today's panel shops work mostly manually in preparing and assembling the panels. Industry 4.0 shows us how we can handle the machining, the assembly and the wire processing in a smart digital environment in an automatic way. This can reduce typical production time from 58 hours (manual process) to a less than 34 hours (semi-automatic or fully automatic process). Let us show you Connected Manufacturing in action, or what we call Production 4.0.

Industry 4.0 functionally safe operating mode selection and access permission in one unit
Speaker: Joao Paulo Vaz, Machinery Safety Consultant, PILZ

Pilz Automation Safety Canada L.P. showcases a system that allows not only machine access permission but also a safe operation mode selection with the help of one compact unit. This system also has an Industry 4.0 gateway to allow remote monitoring of various functions and modes. Machine entry/usage monitoring, machine condition monitoring as well as machine efficiency monitoring are just some of the features. The open source and multi interface connectivity makes this a universal solution for smart acccess and monitoring of machines.
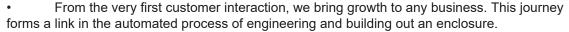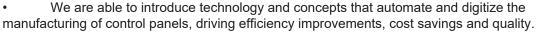
Rittal Value Chain: Innovation, Automation and Process Optimization for Industry 4.0
Speaker: Tim Rourke, President, Rittal Systems Ltd.

Discover how Rittal brings the Industry 4.0 Value Chain to design and production at any organization of any size. This is the next revolution in manufacturing as businesses move into a new era of faster production and turnaround time.

• From the very first customer interaction, we bring growth to any business. This journey forms a link in the automated process of engineering and building out an enclosure.
• We are able to introduce technology and concepts that automate and digitize the manufacturing of control panels, driving efficiency improvements, cost savings and quality.

IIoT Cloud access with Ignition SCADA using Sparkplug Protocol
Speaker: Juliano Matias, General Manager, WAGO

The Industrial Internet of Things and Services (IIoT) aims for smarter products and applications by collecting and understanding data provided by the "things" using internet and Cloud technology. By supporting the Sparkplug specification, data can be sent from the Programmable Logic Controller (PLC) to Supervisory Control and Data Acquisition (SCADA) systems such as Ignition. Process data can be recorded and configured in the PLC program. Furthermore, commands can also be defined in the PLC program and sent from the SCADA system to the Priority-based Flow Control (PFC).

IIoT with Docker Platform
Speaker: Juliano Matias, General Manager, WAGO

Docker is an open source software that is designed to make it easier to create, deploy, and run applications by using containers. Containers allow developers to package up an application with all of the parts required, such as libraries and other dependencies, and ship it out as one package. This represents a docker-container and portable lightweight application that can identically run on a computer cluster or embedded device such as a PLC.