Event: ISA WWAC – Water/Wastewater Automatic Controls Symposium

Date: August 7-9, 2018

Title: Crossing the chasm with information integration interoperability and the industrial internet-of-things leveraging the strategic industry standards.

Abstract:

Have you ever wondered how you can leverage all this industrial internet-of-things hype and hoopla and try to figure out how to have all your disparate devices and applications seamlessly connected? There are many initiatives across geographical boundaries to address automation opportunities across multitudes of industries. We all hear about Industrie4.0 (and the many other regional equivalents) and all of them are attempting to address similar problems/ opportunities in areas like process and factory automation, building automation, and specific vertical markets like pharmaceutical, oil & gas, water treatment, agriculture, packaging and the list goes on and on and on…. Do you wonder what the industrie4.0 thing means to you?

Navigating the landscape with all the standards can be drastically and completely overwhelming as you try to make sure your architecting systems of the future and at the same time supporting all your existing systems that you know you can't replace anytime soon.

This session talks about the power of connectivity leveraging information integration interoperability and the value proposition of data and information from the embedded world to the cloud and the benefits to water treatment through automation.

Water treatment has many challenges that mirror many other process industries with respect to automation.

Our water continues to become a scarcer resource, and environmental laws continue to tighten globally. It is critical to efficiently manage facility water and energy use, not only to help cut costs but also to improve compliance with continually evolving environmental regulations.

Opportunities in automation and standardization can provide an integrated control solution that carefully monitors and dynamically regulates when, where, and how much water is used and recycled at different points in the industrial process facilitating real time and historical data visualization and logging as well as interfacing to cloud based applications.

Note on OPC Foundation and the OPC UA technology.

The OPC Foundation OPC Unified Architecture (OPC UA) is the infrastructure for data connectivity and information modeling as the strategic and tactical solutions needed to deliver the requirements for the Industrial Internet of Things (IIoT) and Industrie 4.0.

OPC UA data connectivity provides the infrastructure for your products to play a role in digital transformation solutions, enabling your products to exchange data intelligently (syntax and semantics) using OPC UA Information Modeling.