2015 Water / Wastewater and Automatic Controls Symposium

August 4-6, 2015 • Wyndham Lake Buena Vista Resort • Orlando, Florida, USA

Presented by the ISA Water / Wastewater Industries Division - *www.isawwsymposium.com*

Technical Co-Sponsors: WEF Automation and Info Tech Committee, Florida AWWA Section, Florida Water Environment Association, ISA Tampa Bay Section, and Instrumentation Testing Association

Conference Preview

Setting the Standard for Automation™

About the Symposium

Presented by the ISA Water and Wastewater Industries Division, in collaboration with the Florida AWWA Section, the WEF Automation and Info Tech Committee, the Florida Water Environment Association, and the Instrumentation Testing Association, the WWAC Symposium helps professionals in the water and wastewater industries understand how instrumentation, SCADA (supervisory control and data acquisition), and automatic control applications are vital to the treatment and distribution of water; the collection and treatment of wastewater; and the management of stormwater. The symposium also provides an excellent opportunity to gain valuable technical information, network with other professionals, professional development, and continuing education credits (CEUs and PDHs).

This 3-day symposium features 2 full days of presentations, a tour of a local water/wastewater facility, a general reception, networking events, a poster session, and a supplier showcase.

- 2 full days of speakers/presentations
- Track 1 – Instrumentation, System Integration, Automation, Plant Case Studies, New Technologies, Process Optimization
- Track 2 – Future of Automation, SCADA, HMI, Human Factors, Alarm Management
- 1 full-day ISA Training Course on Alarm Management
- 2 day ISA Training Course on Asset Managaement and Enterprise Integration Using ANSI/ISA-95
- Plant Tour of a local Water/Wastewater Facility
- Trade Show, Reception & Networking Event
- Affordable Professional Development for Plant Operations/Maintenance Staff, Plant Managers, Plant Designers, Engineers, System Integrators
- CEUs, PDHs – Continuing Education Units, Professional Development Hours

Attendee Profile

The symposium is targeted at anyone involved with automation, instrumentation, and/or control systems in the water/wastewater sectors. Attendees typically range from plant operators, maintenance, and technical personnel to engineers, programmers and system integrators.

Meet and network with professionals who are responsible for the automation, instrumentation and operating aspects of water and wastewater facilities across North America. According to a recent US EPA study there are over 16,000 publicly-owned water plants across the USA, and another 21,000+ wastewater treatment plants throughout the country.

This knowledge-driven event focuses on bringing together individuals who are looking for technical solutions to their water and wastewater challenges. They are looking for products, services, and partners they can trust to make their jobs easier.

Schedule of Events

Monday - Tuesday, August 3 - 4, 2015
- Optional training courses
- Symposium Registration
- Local Water/Wastewater Plant Tour (late afternoon Tuesday)

Wednesday, August 5, 2015
- Keynote Speaker
- Invited Speaker
- Presentations and Papers
- Light Breakfast, Coffee Breaks and Buffet Lunch Provided
- Supplier Showcase
- Evening Reception

Thursday, August 6, 2015
- Invited Speakers
- Panel Session
- Presentations and Papers
- Light Breakfast, Coffee Breaks and Buffet Lunch Provided
- Supplier Showcase

Technical Program

This year's symposium has a special focus on "the future of automation" and how SCADA can be used as an effective tool to optimize operations, maintenance and asset planning. The two day technical program will include a keynote address, a special welcome from the director of the ISA water/wastewater division, and two invited speakers on the need for better situational awareness in today's HMI and the need for increased security in our plant SCADA and DCS systems. Guest speakers from the AWWA and WEF will also speak about the current advances in using instrumentation and SCADA in their sectors along with a panel session on what consumers want from manufacturers.

Local Plant Tour

Attendees will have the option of attending a tour of a local water treatment facility on the late afternoon of Tuesday August 4, 2015. The tour is free to all registered symposium attendees. Complimentary bus transportation from the hotel to/from the tour site is included. Invitations to RSVP for the bus tour will be sent to all registered attendees approximately 3 weeks prior to the symposium.

Optional Short Courses

Asset Management and Enterprise Integration Using the ANSI / ISA 95 Standard (IC55)

Date: Mon. - Tues., August 3 - 4, 2015
Length: 2 days
CEU Credits: 1.4
Cost: $1585 ($1265 for ISA members)

Modern asset management, maintenance, and process monitoring systems offer a wide range of capabilities for municipal water / wastewater utilities. However, connecting SCADA systems to these advanced tools tends to be overlooked and remains a challenge. The ANSI / ISA 95 standard provides a standardized method for communicating process data between SCADA and these enterprise tools. Using examples from the manufacturing industry, this course outlines how these same techniques can be used to enable the integration of DCS and SCADA systems with these value added systems in the municipal water / wastewater sector. This course also teaches the terminology used in Information Technology (IT) departments so that manufacturing and IT personnel can effectively work together on integration projects.

Instructor: Paul Nowicki has over 25 years of experience in designing and deploying MES / ERP systems and is an active member of the ISA 88 and ISA 95 committees.

Introduction to the Management of Alarm Systems (IC39C)

Date: Tues., August 4, 2015
Length: 1 day
CEU Credits: 0.7
Cost: $720 ($575 for ISA members)

This course focuses on the key activities of the alarm management lifecycle provided in the ANSI / ISA 18.2 standard, Management of Alarm Systems for the Process Industries. The activities include the alarm philosophy development, alarm rationalization, basic alarm design, advanced alarm techniques, Human Machine Interface (HMI) design for alarms, monitoring, assessment, management of change, and audit. The course also discusses how alarm management techniques can be used to signifcantly reduce the number of nuisance alarms that operators have to address.
Instructor: John Bogdan was one of the original co-authors of the ISA 18.2 standard and has worked in the area of alarm management for over 15 years.

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Founded in 1945, the International Society of Automation is a leading, global, nonprofit organization that is setting the standard for automation by helping over 30,000 worldwide members and other professionals solve difficult technical problems, while enhancing their leadership and personal career capabilities. Based in Research Triangle Park, North Carolina, ISA develops standards; certifies industry professionals; provides education and training; publishes books and technical articles; and hosts conferences and exhibitions for automation professionals. ISA is the founding sponsor of The Automation Federation.

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