



Water/Wastewater and Automatic Controls

Symposium2017

8-10 August
Wyndham Lake Buena Vista Resort
Orlando, Florida USA

Conference Program

www.isawwsymposium.com

Presented by:



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Industries**
Division

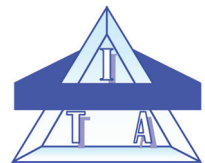
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The 2017 ISA Water/Wastewater and Automatic Controls Symposium is Presented By:



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ISA WWAC Symposium App

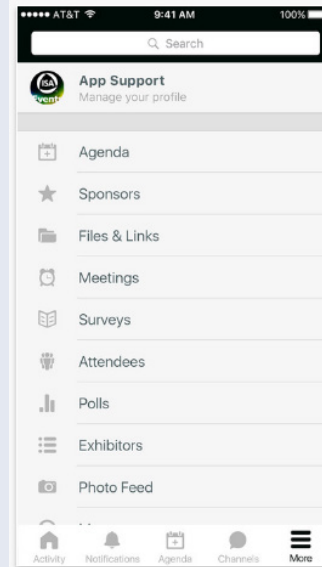
ISA has created an app for this year's symposium. The WWAC mobile app features a wide range of interactive features to enhance your event experience.

Download the App to Discover:

- All event information, schedules, and topics in one handy location
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How to download the app:

You can visit the iTunes and Google Play stores and search "ISA Events," then look for the ISA Events logo. Once you have downloaded the app, simply enter your email address and create your profile.



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About the Symposium

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, networking, professional development, and continuing education credits (CEUs and PDHs).

This 3-day symposium is focused on the challenges associated with automation and instrumentation in the water and wastewater sectors. It features 2 full days of presentations (two speaking tracks), a tour of a local treatment facility, a general reception, networking events, a poster session, and a supplier showcase.

Welcome Messages



General Symposium Chair

It is my pleasure to welcome you to our 2017 ISA Water/Wastewater and Automatic Controls Symposium. Thanks to our strong partnerships with the WEF Automation and Info Tech Committee, the Florida Section of the AWWA, the Florida Water Environment Association, and the Instrumentation Testing Association, we have tailored this year's conference specifically to the needs of automation professionals in the water and wastewater sectors. I would also like to thank our many sponsors, exhibitors, and committee volunteers for being instrumental to our success this year.

We have a strong program planned this year, with 27 technical speakers, a keynote address, two invited speakers, three guest speakers, and an expert panel leading our new instrumentation workshop. We also expect to have a packed exhibit hall, a great general reception, and top notch catering lined up. Don't forget to also check out our plant tour and the optional training courses. I look forward to meeting all of you at this year's symposium.

Pavol Segedy, PE
General Symposium Chair



Program Committee Chair

On behalf of the entire program committee, I would like to formally welcome you to this year's 2017 WWAC Symposium. Our focus is to help professionals in the water and wastewater industries gain a greater understanding of how automatic control applications, utilizing the latest in instrumentation and intelligent controls technology, can be applied to improve both process measurement water and wastewater processing, collection, treatment, and distribution.

Our symposium is a three day event where attendees will experience a breath of learning and continuing education opportunities. Our symposium starts with two optional training courses. This is followed by early-bird symposium badge-pick up and a plant tour. Then we have two full days dedicated to technical presentations. In addition to our 27 technical speakers, we have an informative keynote opening, invited speakers, and guest speakers as part of our program.

I also encourage you to visit our exhibit hall, talk with our sponsors, and network with your fellow attendees. From these interactions you will find out about new techniques, products and approaches to your daily automation challenges.

We are pleased to welcome the full range of automation professionals in our sector to our symposium. This includes both plant people, including operations, maintenance, engineering and management, as well as plant designers, instrumentation specialists, and system integration firms. Please take advantage of the professional development opportunities afforded to you by our symposium. If you are a Florida resident, make sure to fill out the paperwork to get your FDEP-approved CEUs/PDHs. If you are from out of state, or have an ISA CCST or CAP certification, don't forget to request your ISA training certificate.

Joe Provenzano
Program Committee Chair



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Keynote Speaker



Steve Davis

Business Development Leader
GE Water & Process Technologies

The Journey of Digital and Its Ties to Automation

Steve Davis provides strategic direction and program management for the business' digital water initiative, and the innovation and growth for its Software as a Service (SaaS) platform. His main role is to expand Water & Process Technologies' leadership in the digital industrial space. Steve joined Water & Process Technologies in 2005 and has held numerous roles with increasing responsibility for product management, commercial operations, technical sales and engineering. He has spent the last 5 years defining and growing Water & Process technologies' Industrial Internet strategy.

Invited Speakers



Saadi Kermani

Global Business Development Manager –
Industrial Information Management
Schneider Electric

Your Machines are Talking, Are You Listening?

Saadi is the global business development manager for the Industrial Information Management business at Schneider Electric with 14 years of experience. He is a certified Professional Scrum Product Owner, certified Pragmatic Marketing Product Manager, a Grenadier Guardsman for the Canadian National Department of Defense and holds a Bachelors of Commerce degree in MIS.



Thomas Burke

President & Executive Director
OPC Foundation

Optimizing Water/Wastewater Operation via Industry Standards embracing IIoT

Thomas has a bachelor's degree in mathematics from John Carroll University and a master's degree in Computer Engineering from the University of Dayton. Mr. Burke started the OPC Foundation in 1995, and his vision is all about multivendor multiplatform secure reliable interoperability for data / information integration from the smallest level of devices in industrial automation, building automation, home automation, and security into the cloud and the enterprise respectively.

Instrumentation Workshop



Instructor

Charles Aycock

EIM Systems Coordinator
City of Roseville



Instructor

Tracy Doane-Weideman

USA National Product Manager
Endress+Hauser, Inc.



Instructor

Steve Smith

Senior Product Marketing Manager – Analytical
Endress+Hauser USA



Instructor

Melody White

Application Development Manager
Hach Company



Instructor

Bob Dabkowski

Wastewater Specialist
Hach Company

Charles Aycock, Melody White, Tracy Doane-Weideman, Bob Dabkowski and Steve Smith will provide vendor-neutral fundamentals of analyzers along with how they can be integrated into different strategies for process control in water and wastewater processes. Hands-on exercises will be used to demonstrate analyzer technology limitations, misapplications, and trouble-shooting. Proper instrument placement for different process configurations will also be presented. The objectives are for participants to develop an understanding of the on-line analyzers used in wastewater treatment for nutrient control. This includes; measurement principles, limitations in performance of the various nutrient analyzer technologies, errors and interferences, and installation practices within water resource recovery facilities.

Guest Speakers



Corey Williams

President and CEO, Optimatics

Critical Considerations for Successfully Transitioning to a "Smart Utility": Implementing Intelligent Water Systems



Barry Liner, Ph.D., P.E., BCEE

Director, WEF's Water Science & Engineering Center



Mike Sweeney, PhD, PE

Florida Section of the AWWA &
Deputy Executive-Director, Toho Water Authority

AWWA Current News and Trends



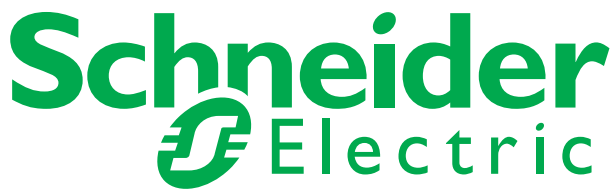
Thomas W. Devine, CEM, CAP, LEED AP

Manager Energy Services, GHD Consulting Engineering Services Inc.

How ISA Supports Automation Professionals in the Water and Wastewater Sector

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Monday, August 7, 2017

8:00am - 4:00pm	IACS Cybersecurity Operations & Maintenance: Secure Your Control System (day 1 of 2)* (Sandy Lake)
8:00am - 4:00pm	Introduction to the Management of Alarm Systems (1 day)* (Rock Lake)

Tuesday, August 8, 2017

8:00am - 4:00pm	IACS Cybersecurity Operations & Maintenance: Secure Your Control System (day 2 of 2)* (Sandy Lake)
12:00pm - 3:30pm	Early Symposium Registration & Badge Pick-Up (Solar Foyer)
1:00pm - 6:00pm	Tour of Treatment Plant (transportation provided)**

* Short courses are optional. Separate course registration required.

** Limited capacity on tour. Tour leaves from hotel lobby at 1:30 pm. Invitations sent out 3 weeks prior to tour via e-mail to registered symposium attendees. RSVP required.

Optional Short Courses

Introduction to the Management of Alarm Systems (IC39C)

Date: Monday, August 7, 2017 (1 day course)

Instructor: Nick Sands, PE, ISA Fellow

Length: 1 day

Credits: 0.7 CEUs / 7 PDHs

Cost: \$650 ISA Members, \$815 List Price

This course focuses on the key activities of the alarm management lifecycle provided in the ANSI/ISA18.00.02 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.

IACS Cybersecurity Operations & Maintenance: Secure Your Control System (IC37)

Date: Mon-Tues, August 7-8, 2017 (2 day course)

Instructor: Bryan Singer, CISM, CISSP

Length: 2 days

Credits: 1.4 CEUs / 14 PDHs

Cost: \$2,000 ISA Members, \$2,500 List Price

The third phase in the IACS Cybersecurity Lifecycle (defined in ISA 62443-1-1) focuses on the activities associated with the ongoing operations and maintenance of IACS cybersecurity. This involves network diagnostics and troubleshooting, security monitoring and incident response, and maintenance of cybersecurity countermeasures implemented in the Design & Implementation phase. This phase also includes security management of change, backup, and recovery procedures and periodic cybersecurity audits. This course will provide students with the information and skills to detect and troubleshoot potential cybersecurity events as well as the skills to maintain the security level of an operating system throughout its lifecycle despite the challenges of an ever-changing threat environment.

Optional Local Facility Tour

As part of the symposium, attendees will have the option of attending a Tour of Toho Water Authority's South Bermuda wastewater treatment plant. The tour takes place in the early-afternoon of Tues, Aug 8, 2017 at 1:00 PM, with the tour bus leaving the hotel at 1:30 PM, and requires prior-sign-up. Transportation to/from the hotel is provided. The bus will leave the hotel lobby. Bus transportation for the tour is kindly being provided by McKim & Creed.

The Toho Water Authority's South Bermuda wastewater treatment plant is located south of the city of Kissimmee on the northwest side of Lake Tohopekaliga. The plant is a Class I reliability plant with a permitted capacity of 13.0 MGD and a buildout capacity of 21.0 MGD.

The treatment methods at this facility include preliminary treatment, primary clarification and grit removal, secondary biological treatment anoxic/oxic/anoxic/oxic, secondary clarification, filtration with disk filters, and disinfection with chlorine. Construction of this facility was completed in early 1988. Effluent from the plant is disposed of either as reused irrigation or at a Rapid Infiltration Basins (RIBs) site in western Osceola County.



Toho Water Authority (TWA) is the largest provider of water, wastewater and reclaimed water services in Osceola County. Toho currently serves approximately 97,000 water, 91,000 wastewater and 14,500 reclaimed water customers in Kissimmee, Poinciana and unincorporated areas of Osceola County. Toho owns and operates 13 water plants and 8 wastewater plants. With a 300+ person workforce, Toho treats and distributes approximately 35 million gallons of potable water and reclaims 27 million gallons of wastewater each day.

Wednesday, August 9, 2017

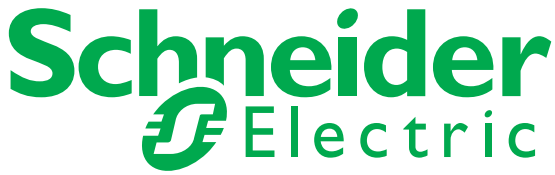
7:00am	Registration, Badge Pick-up & Breakfast	
8:00am	Opening Remarks (Technical Session Room 1)	
8:15am	<p><u>Keynote Speaker</u> The Journey of Digital and Its Ties to Automation Steve Davis, Business Development Leader, GE Water & Process Technologies</p>	
9:00am	<p><u>Guest Speakers</u> Critical Considerations for Successfully Transitioning to a "Smart Utility": Implementing Intelligent Water Systems Corey Williams, President and CEO, Optimatics Barry Liner, Ph.D., P.E., BCEE, Director of WEF's Water Science & Engineering Center</p>	
9:30am	<p><u>Guest Speaker</u> AWWA Current News and Trends Michael Sweeney, Ph.D., Deputy Executive Director, Toho Water Authority</p>	
9:45am	Coffee Break & Exhibits (Exhibit Hall)	
	Track 1 (Technical Session Room 1)	Track 2 (Technical Session Room 2)
10:30am	<p>Big Data and Business Intelligence 101 Travis Detherage, WaterOne</p>	<p>How to Decide Whether to Upgrade or Replace Your SCADA System G. Mike Stoup, P.E., McKim & Creed, Inc. Eric Brown, McKim & Creed, Inc.</p>
11:00am	<p>Mission Critical Systems Data Security and Regulatory Compliance in the Cloud Goran Novkovic, MSc, ITIL, CQA, CSQE, PEng, APM, PMP, Toronto Water</p>	<p>Intelligent Process Control Improvement Strategy to Shave and Save Energy Daniel J. Sheldon, P.E., Xylem</p>
11:30am	<p>Lessons from the Field, a Pen Tester's Adventures in Water Sectors and ICS Bryan Singer, CISSP, CAP, IOActive</p>	<p>Case Study: WTP2 PLC Upgrade Project: As-building, Design, Fabrication, Installation, Testing & Commissioning Benjamin Egger, P.E., Alameda County Water District</p>
12:00pm	Lunch & Exhibits (Exhibit Hall)	
1:00pm	<p>Enterprise Asset Management Using SCADA, Workflows, Work Order Management Systems and GIS Kerry Lee Schrank, Gray Matter Systems</p>	<p>Measuring Pressure in Challenging Environments David Dlugos, Ashcroft, Inc.</p>
1:30pm	<p>Implementation of Automation Projects Using a SCADA Master Plan Manoj Yegnaraman, P.E., Carollo Engineers, Inc. Norman Anderson, P.E., Westin Engineering, Inc. Jeff Martin, Carollo Engineers, Inc.</p>	<p>Implementation of Real Time Pump Efficiency and Optimization System Adam Plumstead, Eramosa Engineering Michael O'Meara, Regional Municipality of York Matt Spitzig, Regional Municipality of York</p>
2:00pm	<p>Transformation in plant operator process perception through implementation of HMI standards based on ISA 101 Dean Ford, P.E., CAP, Westin Engineering, Inc. John Dulebohn, Public Utilities Department, City of Anaheim</p>	<p>Advanced Management of Remote Lift Stations William Moulton, Schneider Electric</p>
2:30pm	<p>Defending Against Cyber Attacks Richard Witucki, Schneider Electric Daniel DesRuisseaux, Schneider Electric</p>	<p>Process Control Systems at Water Resource Recovery Facilities: Use of Process Simulation to Assist with Controller Design and Tuning Oliver Schraa, inCNTRL Solutions, Inc. Matthew Gray, AECOM</p>
3:00pm	Coffee & Exhibits (Exhibit Hall)	
3:45pm	<p>I-o-T Spells Change for Our World – And Work Don Dickinson, Phoenix Contact</p>	<p>Instrumentation Workshop – pH, ORP, DO, Turbidity, TSS Fundamentals Instrumentation Workshop Speakers</p>
4:15pm	<p>Industrial and Automation Communication Protocols in the Age of IIoT Alan Hudson, Trihedral</p>	
4:45pm	<p>Turning Data into Information Hassan Ajami, Process Control & Instrumentation Biren Saparia, Great Lakes Water Authority</p>	
5:15pm	General Reception and Cash Bar (Exhibit Hall)	

Thursday, August 10, 2017

7:00am	Breakfast	
8:00am	Opening Remarks (Technical Session Room 1)	
8:10am	Preview of next year's 2018 ISA Water/Wastewater and Automatic Controls Symposium	
8:15am	<i>Invited Speaker</i> Your machines are talking, are you listening? Saadi Kermani, Global Business Development Manager, Schneider Electric	
8:45am	<i>Invited Speaker</i> Optimizing Water/Wastewater Operation via Industry Standards embracing IIoT Thomas Burke, President & Executive Director, OPC Foundation	
9:15am	<i>Guest Speaker</i> How ISA Supports Automation Professionals in the Water and Wastewater Sector Thomas W. Devine, CEM, CAP, LEED AP, GHD Consulting Engineering Services Inc.	
9:30am	2016 Water Wastewater Automatic Control Symposium / Water Wastewater Industry Division Awards Presentation	
9:45am	Coffee Break & Exhibits (Exhibit Hall)	
	Track 1 (Technical Session Room 1)	Track 2 (Technical Session Room 2)
10:30am	Industrial Internet of Things and Hybrid Control Systems Jose Pina, Schneider Electric Francois Bravo, Schneider Electric	Instrumentation Workshop – Ammonia, Nitrate, Phosphorous, Chlorine Fundamentals Instrumentation Workshop Speakers
11:00am	Beyond High Performance HMI Lucas Jordan, P.E., MR Systems Robert Touchton, MR Systems	
11:30am	Object Oriented SCADA Nate Powell, P.E., Custom Controls Unlimited, Inc. Robert J Shull, P.E., CAP, Custom Controls Unlimited, Inc.	
12:00pm	Lunch & Exhibits (Exhibit Hall)	
1:00pm	SCADA Zero to SCADA Hero Jason Hamlin, City of Lynchburg, VA Carter Farley, P.E., InstruLogic, LLC	Instrumentation Workshop – Chlorine Fundamentals Instrumentation Workshop Speakers
1:30pm	Comparison of IoT Connectivity Protocols Tom McKinney, HMS Industrial Networks	Instrumentation Workshop – Problem Solving Using Instrumentation Fundamentals Instrumentation Workshop Speakers
2:00pm	Unveiling Security Gaps in Industrial Control Systems and Critical Infrastructure Mille Gandelsman, Indegy Chris Grove, Indegy	
2:30pm	Lessons From The Ukraine Cyberattacks, Protecting critical infrastructure against the new cyber attacks Michael H. Firstenberg, Waterfall Security Solutions	Instrumentation Workshop – Cost of Ownership Instrumentation Workshop Speakers
3:10pm	Closing Remarks (Technical Session Room 1)	



Meet Our 2017 Exhibitors



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Florida Water
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The Florida Water Environment Association (FWEA) through local chapters, student chapters, committees and Utility Council help to unite Florida's clean water professionals responsible for protecting the environment through education programs, professional development and promotion of sound public policy. For more information see www.fwea.org



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The Instrumentation Testing Association (ITA) is a non-profit technical and educational organization. ITA is internationally governed by 14 treatment facilities (both public and private, industrial and municipal and representative of small, medium and large water, wastewater and industrial systems). ITAs members include water, wastewater and industrial treatment plants, consultants, manufacturers, non-profits, and regulatory organizations. ITA was founded to address instrument performance and reliability issues arising from low bid requirements of procuring instrumentation. For more information see www.instrument.org

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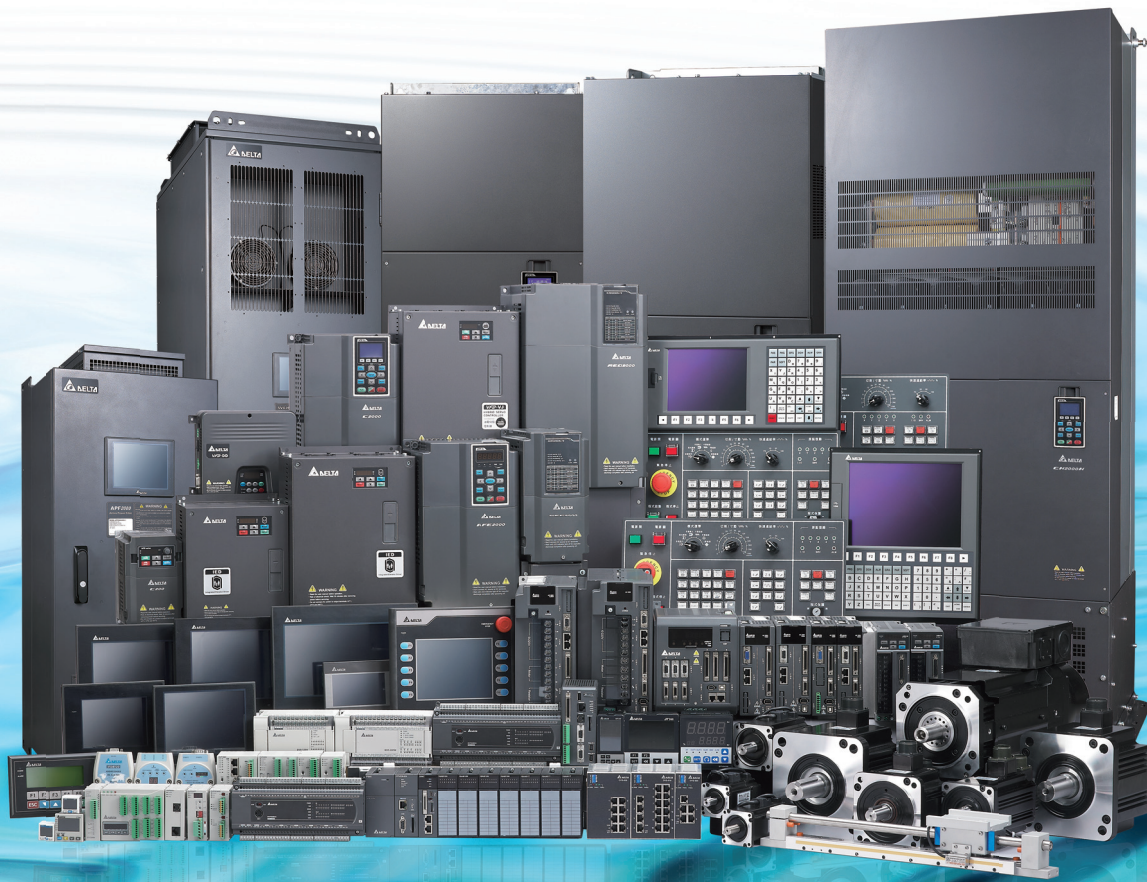
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Travel Information

Venue & Accommodations

The 2017 ISA Water/Wastewater Symposium will be held at **Wyndham Lake Buena Vista Resort Hotel**, near Orlando, Florida. This modern hotel offers luxury accommodations and is located right on the Walt Disney® Resort property. It is also situated close to both Sea World and Universal Studio's theme parks.

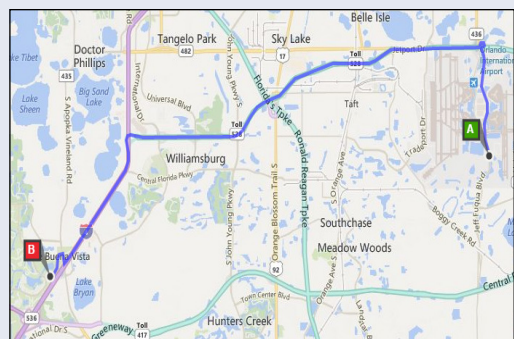
Hotel Registration

We have arranged a discounted hotel rate of \$109/night for symposium attendees for the Mon, Tues, Wed, and Thurs nights. Please mention "ISA WWAC Symposium" when booking. If registering on-line use the registration link on the symposium website.

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Map & Directions

Flying: The hotel is approximately 18 miles from Orlando International Airport (airport code: MCO). The airport has a large number of rental car agencies. Shuttle bus and taxi service from the airport is available via Mears Transportation by visiting www.mearstransportation.com or by calling 1-800-223-3868. A one-way taxi trip from the airport to the hotel typically costs around \$40 USD.

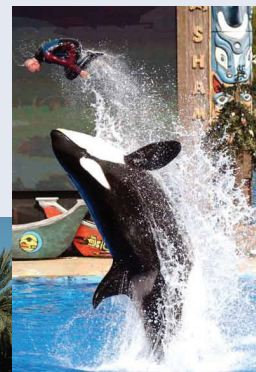
Driving: There are several ways to get to the hotel. If you are driving to the symposium, the hotel is not far from Interstate 4, the Florida 528 Highway, and the Florida Turnpike.

Local Attractions

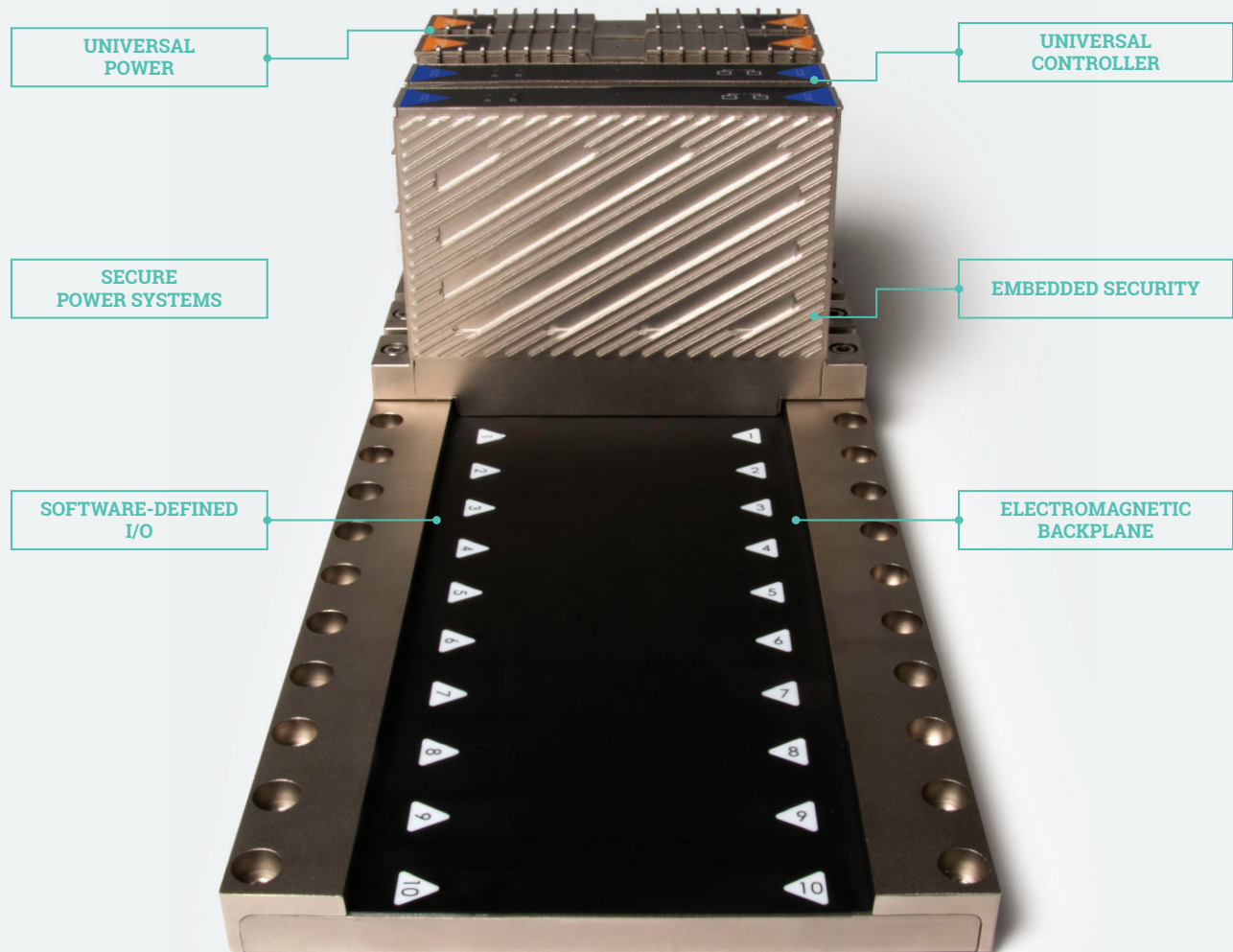
The Orlando area provides a wealth of visitor experiences. Situated in the middle of Walt Disney World®, Wyndham Lake Buena Vista overlooks all of Disney's Florida empire, including Downtown Disney®, right across the street. Being an Official Walt Disney World® Resort means there is a shuttle to all things Disney® and family-friendly amenities like the Oasis Aquatic Playground, as well as Oasis Bar & Grill to keep the whole family full of food and fun in the sun. Be sure to also catch the Disney® Character Breakfast in their Lakeview Restaurant 3 days a week (Tuesday, Thursday, and Saturday), complete with a buffet and photo opportunities with two of the Disney "Fab Five" characters. For more information on local attractions visit www.visitorlando.com.

Distances to Orlando, Florida Attractions

City Walk at Universal Orlando Resort	8.6 miles
Downtown Disney	0.7 miles
Walt Disney World Hollywood Studios	3.6 miles
Walt Disney World Animal Kingdom	6.2 miles
Walt Disney World Epcot Center.....	3.3 miles
Walt Disney World Magic Kingdom.....	5.1 miles
Gatorland	10 miles
Universal Studios Orlando Resort.....	8.2 miles
Kennedy Space Center	58 miles
Prime Outlets.....	11 miles
SeaWorld.....	4.7 miles
Wet n Wild	8.5 miles



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Participants will receive their choice of CEUs or PDHs from one of the following organizations:

 <p>2.0 CEUs or 20 PDHs water operators wastewater operators engineers</p>  <p>FloridaSection</p>	<p>Florida state licensed water operators and wastewater operators can earn up to 2.0 Florida Department of Environmental Protection approved CEUs by attending the symposium. Florida state licensed engineers can also earn up to 20 Florida DEP-approved PDHs by attending the symposium.</p> <p>As part of the partnership between the ISA and the Florida Section of the AWWA, official certificates for these CEUs and PDHs will be issued by the FSAWWA (FSAWWA course # 05134016).</p> <p>These CEU credits can be used by both water operators and wastewater operators.</p> <p>Florida statutes require anyone who operates a drinking water treatment plant or a domestic wastewater treatment plant to be licensed by FDEP. Beginning May 1, 2011, licensure for Water Distribution System Operators became mandatory. CEUs and PDHs that attendees receive at the symposium can be used to satisfy the continuing education requirements for their licenses.</p>	
	<p>Symposium 20 PDHs</p> <p>Symposium attendees also have the option of receiving a certificate for 20 Professional Development Hours (PDHs) from the ISA.</p> <p>These PDHs can be used towards your ISA CAP or CCST certification or towards continuing education requirements in other jurisdictions, as applicable.</p>	  
 <p>1.4 CEUs</p>	 <p>1.4 CEUs</p>	<p>For the optional two-day training course on IACS Cybersecurity Operations & Maintenance: Secure Your Control System (IC37), attendees can receive their choice of:</p> <ul style="list-style-type: none"> • 1.4 CEUs certified by the Florida DEP (issued by the FSAWWA, course # 05134018) • 1.4 CEUs certified by IACET (issued by the ISA)
 <p>0.7 CEUs</p>	 <p>0.7 CEUs</p>	<p>For the optional full-day training course on Introduction to the Management of Alarm Systems (IC39C), attendees can receive their choice of:</p> <ul style="list-style-type: none"> • 0.7 CEUs certified by the Florida DEP (issued by the FSAWWA, course # 05134017) • 0.7 CEUs certified by IACET (issued by the ISA)

About the ISA Water and Wastewater Industry Division

The ISA Water and Wastewater Industries Division (WWID) is concerned with all aspects of instrumentation and automated-control related to commercial and public systems associated with water and wastewater management. Membership in this Division provides the latest news and information relating to instrumentation and control systems in water and wastewater management, including water processing and distribution, as well as wastewater collection and treatment. WWID is invaluable to professionals interested in sanitary technology and engineering, and the operation and maintenance of wastewater facilities. The Division holds an annual symposium that features presentations by industry practitioners and published proceedings. Read more at www.isa.org/wwid

Benefits of WWID Membership

- **Quarterly Newsletter** - The division publishes a quarterly electronic newsletter. Members also have the opportunity to write articles for the newsletter.
- **Annual Symposium** - Attend and participate in the annual WWAC symposium which spans all automation aspects of water and wastewater
- **Networking Opportunities** - A chance to meet, and form relationships with, peers involved with automation in your industry
- **Online Resources** - Gain access to papers and presentations from prior division symposia via the division and ISA websites
- **Industry Knowledge** - Be part of an active group that enhances your knowledge and professionalism on Water and Wastewater topics by obtaining valuable technical information and training in the traditional areas of measurements/sensors, instrumentation systems, data and advanced system/sensor technology.
- **Targeted Training** - At its annual symposium, the WWID offers ISA training courses which are targeted towards areas of specific interest for the water/wastewater automation professional.
- **Technical Writing & Presentation Opportunities** - An opportunity to present your work to your automation peers at the annual WWAC symposium, newsletter and/or ISA Automation Week by way of papers, posters, and Power Point presentations
- **Leadership Opportunities** - Opportunities to take on leadership roles in the division, to help with planning the symposium, writing for the newsletter, updating the website, and moderating the discussion lists.
- **LinkedIn Discussion List & Email Discussion List** - The WWID maintains a LinkedIn Group and Listserv Email mailing list for its members.

More information about the ISA and member benefits can be found at www.isa.org



Optimized water management.

Optimized water tasting.

Efficiency Across the Entire Water Cycle

- Optimize energy consumption up to 30%
- Increase operational efficiency up to 25%
- Reduce total cost of ownership up to 20%

Discover how we help utilities deploy a successful Smart Water Network by collecting and enabling actionable data at the ISA WWAC Symposium 2017.

Schneider Electric Presentations:

Keynote: Thursday 8:15
Your machines are talking, are you listening?

Wednesday 2:00 (Track 2)
Advanced Management of Remote Lift Stations

Wednesday 2:30 (Track 1)
Defending Against Cyber Attacks

Thursday 10:30 (Track 1)
Industrial Internet of Things and Hybrid Controls Systems

Please contact Jordan.Heldrich@Schneider-Electric.com to schedule a demo tour or for any questions.

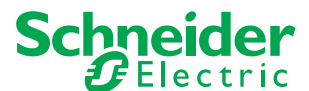


Come visit us in booth 4 & 5

Live demos of Field Devices, PLCs, RealStream Lift Station, Software, etc.

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Life Is On



2017 FALL CONFERENCE

Stewardship and Responsibility



Standard Booth @ \$700 Includes :

- 8-foot X 10-foot booth space
- One (1) six-foot draped table
- Backdrop
- Side drapery
- Two (2) chairs
- Company sign
- Wastebasket
- Two (2) exhibit registrations
- Additional exhibit staff \$35/each
- Ten (10) extra exhibit tickets

Exhibit spaces can include heavy equipment, workshops, portable equipment and showrooms. Flammable materials are prohibited. No modifications will be made to the backdrops or sidewalls without approval from the Exhibits Chair.

Go online for additional booth staff form.

Online Registration is preferred or return form with payment to:

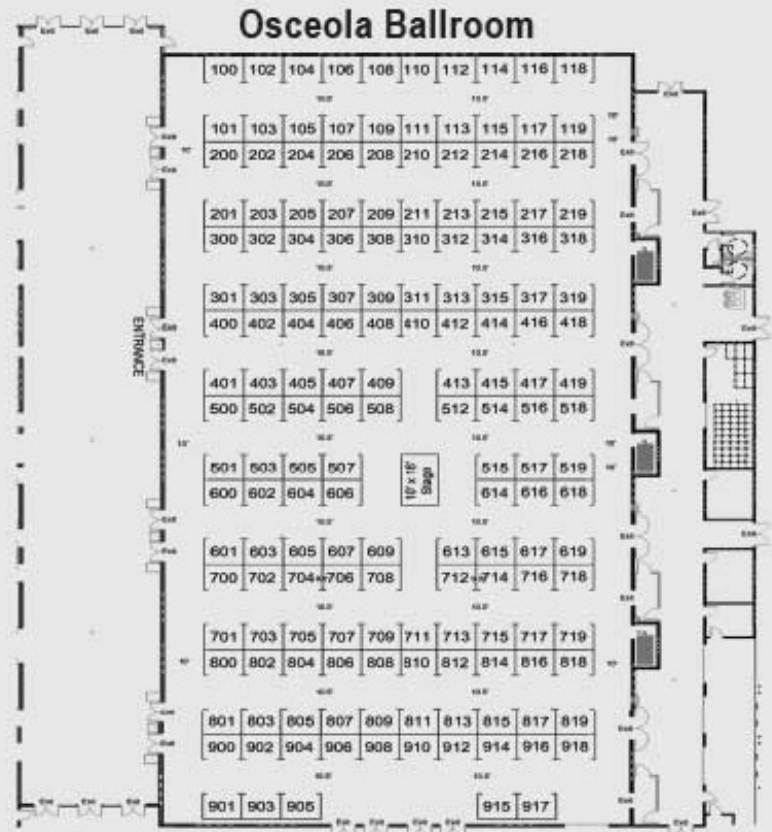
Stacey A. Smith, Register With Ease™
 473 Las Cruces
 Winter Haven, FL 33884
 Fax: (863) 325-0051
 stacey@registerwithease.com

Online exhibitor registration and form for faxing at:
www.fsawwa.org/2017fallconference

No reservations accepted by phone.

Exhibit Registration

Accepting Exhibitor Registrations
 on or after June 1, 2017



Please Note:

All promotional activity other than product demonstrations must be approved by FSAWWA prior to the conference.

The FSAWWA Fall Conference exhibitor registration site no longer offers the option of choosing booth numbers. Booths will continue to be assigned based on a first-come-first-served basis. Therefore, we encourage you to register as early as possible.

Exhibit Schedule

Monday November 27	Tuesday November 28	Wednesday November 29
Set-up: 7:00 am - 3:00 pm	8:00 - 11:30 am 1:30 - 6:00 pm	8:00 am - 12:00 pm
Meet & Greet 4:00 - 6:00 pm	Meet & Greet 4:00 - 6:00 pm	Tear Down after 12:00 pm

No refunds after September 1st.



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2017 ISA Water / Wastewater and Automatic Controls Symposium

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.



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For more information visit:

www.isawwsymposium.com