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Upcoming Events
July 28, 2020 1st EWAC Webinar
August 27, 2020 2nd EWAC Webinar
September 22, 2020 3rd EWAC Webinar
October 20, 2020 4th EWAC Webinar
https://www.isa.org/events-conferences/

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Directors Message

By Chad Kiger, AMS Cooperation

Wow! What a year it has been so far in 2020. I hope you are staying safe and healthy through these times. I am sure it has been challenging for everyone to maintain some semblance of normalcy. From changes in eating habits, wearing personal protective equipment, limiting travel, working from home, and navigating online meeting tools, we have somehow found a way as an industry to continue moving forward. Now more than ever we need to understand the importance of the power industry and the vital role that we all play in the world. Unfortunately, this year’s conference event had to be cancelled, but hopefully we will be able to resume the in-person meeting at the 2021 Energy & Water Automation Conference (EWAC). However, we still plan on having a virtual offering so that we can share information and experiences between the Power Industry Division (POWID) and Water and Wastewater Industries Division (WWID). The focus will be on the areas common to our two industries which include instrumentation and control, cyber security, and safety, among others. You will be getting more information about the virtual event from ISA and you can go to the conference website https://isaautomation.isa.org/ewac2020/ or the Virtual Events Program website http://www.isa.org/virtualevents for more information.

Please consider supporting our division by tuning in to the event. This will be a great opportunity to listen to some of the existing challenges within the industry, share your experiences as well as gain insight from others. We hope to have a great line-up of speakers and event topics that should be of interest to the POWID community.

As we look forward to the next year, I ask for your help in volunteering to take on a role within the POWID division to help make contributions to the newsletter, participate in our industry symposium, serve as a division leader, or just make suggestions for how we can better serve your needs. We continuously try to improve our programming and outreach to better support the industry. Please do not sit back idle. Jump in and help volunteer, whether at a local section event or in helping organize the program for the next conference. Without your help, we cannot make a difference. We are looking to provide long-range planning of the division and cannot do that without volunteers who are willing to step-in and assume roles and responsibilities. It does not take a large time commitment but will greatly help our division. We currently have several vacant leadership positions and need your help.

We are still planning on several webinars over the coming year for the POWID community. Our first speaker will be Aaron Hussey discussing Fleet Monitoring and Diagnostics planned for 2020. As soon as we have further information and details, we will be sure to pass the information along to you. We have several other planned webinars including Dan Lee, Josh Long, and myself. We hope that you can find time to view these webinars and engage the speakers in productive dialogue to make use of their expertise for the implementation of the concepts and ideas that are presented. Again, if you have suggestions for future topics or would be interested in presenting then please let us know.

POWID Goals Update

Our goals for the upcoming year remain the same and center around increased participation from the POWID community. The reason for combining the POWID symposium with the Water/Wastewater Automation Conference was to promote collaboration across multiple industries to leverage knowledge and expertise. We look forward to continuing to work with ISA staff to identify additional methods of reaching a wider audience whether through events, social media, or other activities. In addition, we are beginning a series of webinars meant to address emerging technologies in the POWER industry. There is currently an ISA effort, and we would also like to make this a POWID effort, to engage young professionals in the POWER industry. They will be the leaders of tomorrow that will have to help shepherd POWID forward into the future. Without their help we will not be able to flourish as a division and community. Therefore, this is a call to all young (and old) professionals to step up and take an active role. We hope to continue our Student Forum at the conference events to allow students to engage with seasoned industry professionals who can impart their knowledge on the next generation of the Power Industry.

We have been successful in the past several months in recruiting participation in leadership positions within POWID. However, we are still in need of volunteers to step up and accept leadership positions within POWID to help continue to grow this division and to develop relevant methods to reach the power community through conferences and other avenues. Please contact me if you are interested in volunteering.

We would like to help get you engaged in the division activities. As we begin to make plans for next year’s conference, please make it a point to engage your management to allow you to attend the event, make a presentation, walk the exhibitor floor, and learn the latest trends within the industry. If you have any suggestions for additional ways to reach existing and potentially new members of the division then please let us know. We look forward to growing with your help.

Finally, as recent world events have shown, there is a need to expand upon the virtual capabilities and methods for conveying the ISA and POWID division information in digital format. We will continue working with ISA to enhance the website and other offerings but please send your thoughts and ideas to us regarding new delivery methods as well as content that you would be interested in learning about.
Editor’s Message
By Beth Clarkin, Southern Company

Welcome to the Summer 2020 newsletter. What a strange year this is. For those who don’t know the yearly conference has been replaced with four webinars. (This is elaborated on in some later articles.) Because we are no longer gathering in person, we need to work even harder to stay connected and maintain our community. Two good ways to do that are our group on Linkedin and ISA connect, the new community platform that ISA is rolling out.

Another way to participate in our community is by contributing to this newsletter. We are primarily looking for technical content related to the automation side of the power industry. However, historical and general technical items are also welcome. Please keep your articles non-commercial. We will not print heavy sales pitches. Please send these articles to epclarkin@southernco.com. I am unable to receive attachments over 5MB. If you send an article and do not get a thank you response, I probably did not receive it. To keep up with the POWID in between newsletters, check us out on Linkedin.

2nd Annual Energy & Water Automation Conference (EWAC) Canceled
As COVID-19 (Coronavirus) diagnoses continue to increase worldwide, ISA is committed to providing a safe and healthy environment for our members and customers. The World Health Organization (WHO), the US Centers for Disease Control (CDC), and other global health organizations have universally recommended the cancellation or postponement of gatherings, including conferences, to slow the spread of the virus.

We are complying with those recommendations, as a result, the ISA Energy & Water Automation Conference, 4-6 August 2020, San Antonio, Texas, has been canceled.

In the interim, ISA plans to roll out a series of virtual opportunities based on the pre-developed content for each event. These webinars and virtual conference events will allow our registrants, members, and customers to engage with expert speakers, asking questions and participating in live, on-line discussions. Check back here: www.isa.org/covid19 [isa.org] or www.isa.org/virtualevents [isa.org] for future announcements.

EWAC will have four dedicated live webinars in 2020*, continuing the momentum up until the live event … the tentative schedule includes:

28 July, 27 August, 22 September, and 20 October

*Visit the link above for more information/details as speakers and topics are confirmed.

The 2021 ISA Energy & Water Automation Conference is scheduled for 17-19 August 2021 in San Antonio, TX! Stay tuned for more event details. And, don’t forget to mark your calendars for our 2021 live conference event, visit: www.isa.org/ewac [isa.org] for more information/details, as they become available.

POWID Webinars & ISA Connect
The 2020 EWAC Conference has been deferred to August 2021 in San Antonio, Texas.

Instead ISA will be promoting several webinar’s this summer offered by the different divisions. EWAC will have 4 such presentations addressing power, cybersecurity and industrial wastewater. Promotion of all the webinars by ISA will begin about 6 weeks out, and the events will be sponsored. The format is about 30 minutes of presentation with a 15-minute Question and Answer. ISA expects to provide Professional Development Hours for individuals that attend.

In addition, some exciting changes are coming to ISA through to roll out of a new ISA website called ISAConnect. It will include both section and division pages like POWID and discussion boards on topics and issues members are experiencing. In addition, POWID can and will present several webinars independent of this summer’s Webinar Series that will be posted on the division page. Along with the ISA website change, a change will be made in the handling of technical papers such that conference papers will be accessible to all division member and ISA leadership discussions are being held to ensure easy accessibility to these resources.

Details on all of these changes are beginning to take shape and I am quite excited that ISA Connect looks to be much more of a true knowledge capture system and will be a significantly more useful technical resource as ISA evolves. We haven't fully began rollout of the POWID page but you can go to https://connect.isa.org/home now and see some of the upcoming events.
ISA and my Career

I retired at the end of January 2019 following 42 plus years in the Power Industry and more than 39 continuous years as a member of ISA and its Power Industry Division (POVID). At that time, I also retired from my ISA and other professional society activities to make room for other volunteer leaders. I was blessed to work with a great group of people over the years and that is what I miss the most. With ISA now celebrating 75 years, it is a good time to share what ISA meant to me and my career.

I was a student member of a different professional society during college, but it wasn’t a good fit for my chosen career in instrumentation and control (I&C). A few years into my career a co-worker suggested that I join the Instrument Society of America (ISA). The monthly ISA magazine and the newsletters from the two ISA divisions that I also joined were my first contact with ISA. Those publications helped me to see that I was a part of a much larger group of professionals who had the same technical interests as myself. In the pre-internet world, the publications catalog that I periodically received by mail provided me the opportunity to purchase books that also related to my career.

A year or two after joining ISA, a change in employment brought me to Birmingham, Alabama (USA) where there was an active local ISA section. This provided me with regular face-to-face contact with people with the same interests who did not work for the same company; that is where my professional network really began to develop. Not only did I develop my technical network I was also provided the opportunity to volunteer for leadership roles, which preceded leadership roles with my employer. My first volunteer role with ISA was as registration co-chair for the 1985 ISA Southeastern Conference and Exhibit (SECON 85), which was held in Birmingham. After that, I participated in some of the local education night activities of our local section and eventually found myself as the Education Chair for the section. In this role, I worked with one of our state universities in continuing the production of an annual Fundamentals of Industrial I&C Short Course, which still is given in May each year.

My first two employers did not support me traveling to conferences or doing much in the way of outside training, so ISA was very helpful to furthering my career by providing local technical and leadership educational opportunities. When I moved to Southern Company, my third employer, I learned that if you write technical papers and offer to present them at conferences it furthers your technical growth and makes your company more likely to let you go to those conferences.

As I progressed at Southern, I was able to represent Southern by joining the POWID Executive Committee and the ISA77 standards committee. My most notable roles in POWID were as General Chair of the 2003 POWID Symposium in Williamsburg, Virginia and then a fairly long assignment as the ISA POWID newsletter editor.

Throughout my career, ISA not only allowed me to increase my technical knowledge but also my leadership skills, expanded my technical and social network, and allowed me to grow in other ways and become more widely known in my industry. I highly recommend that all early and mid-career automation professionals get and stay involved in ISA. I wish you all success and happiness in your careers and life in general.

Sincerely,

Dale Evely, P.E. and ISA Life Fellow
Southern Company (retired)
ISA POWID Executive Committee (retired)

Thesis Abstract: Design and Implementation of a Lab-Level Active Distribution AC Multi-Agent System

Author: Yufei Peng
Advisor: Prof. Kenneth A. Loparo
Department: Electrical Engineering and Computer Science
University: Case Western Reserve University

With the increasing presence of distributed energy resources and storage elements, the distribution system is becoming more heterogeneous and complex. This requires autonomous control and management systems for the distribution system that can enable bidirectional power flow and communications of real-time data for both end-users and distribution system operators. Simulation models for distribution networks with intermittent energy sources and active customer participation have been developed in recent years. However, only a limited number of studies have used real control hardware, instead of computer simulations, to test and validate the results. This thesis focuses on the development of a hardware testbed that includes sources, loads and the distribution network in conjunction with real-time communications, control and data exchange. Hardware testbeds for AC and DC micro grids have been built with lab-level voltages, and a multi-agent control system using the VOLTTRON platform was designed based on real-time demand and energy price optimization. A scenario generator agent was designed to facilitate the creation of operating scenarios for system testing and flexible reconfiguration. This hardware testbed will provide a real environment for further research and education on micro-grid operation.
COVID 19 Power Plant Utility Compilation

In response to the COVID-19 pandemic, EPRI’s Generation Sector initiated a series of webcasts to encourage utility collaboration around the world. Facilitated discussions and questionnaires communicated new and evolving best practices being developed and implemented at utilities to address this new threat to power generation supply reliability.

COVID-19 areas of concern identified though this collaboration were:

- Communications with plant staff
- Changes in plant cleaning requirements
- Screening processes for personnel entering the plant
- Changes in plant staffing
- Plant staff sequestration plans
- Changes in plant operational practices
- Changes in plant maintenance practices
- Plant deliveries (bulk materials as well as mail and packages)

Plant practices in these areas were captured and communicated to webcast attendees to support the industry in remaining safe and reliable during an unprecedented pandemic.

The EPRI Generation Sector discussions are now focused on how plants return to a less restrictive operating condition while maintaining the health of personnel and ensuring safe, affordable, reliable, environmentally responsible energy.

ISA67 Committee Update

By: ISA67 Committee Chair Daniel Steik, Idaho National Laboratory

ISA67 on Nuclear Standards meets to develop standards for instrumentation and controls and to maintain, clarify, update, and provide application guidance on the standards already produced. The main committee held a virtual meeting June 16, 2020. Additional information about the meeting will be available in the next update.

Several ISA67 standards committees will also be meeting during this time, including:

- Subcommittee ISA67.01 on Sensors - Transducer and Transmitter Installation for Nuclear Safety Applications.
- Subcommittee ISA67.04.01 on Setpoints - Setpoints for Nuclear Safety-Related Instrumentation and ISARP67.04.02 - Methodologies for the Determination of Setpoints for Nuclear Safety-Related Instrumentation.
- Subcommittee ISA67.06 on Performance Monitoring - Performance Monitoring for Nuclear Safety-Related Instrument Channels in Nuclear Power Plants.

All are welcome to attend the meetings – either to see the work or to get involved and contribute to developing the guidance our industry uses to move toward excellence. More information about the ISA67 Committee and its activities can be found at the ISA67 committee website.

ISA77 Committee Update

Hello, POWID Industry members! The ISA 77 committee last held a Skype meeting on February 12, 2020. You can find the ISA 77 meeting minutes posted on the ISA 77 committee web site. The main purpose of the meeting is to review the status of new/revision documents. The committee will now focus on completing three documents which are summarized here:

ISA77.13 Turbine Steam Bypass Systems (in revision and still in progress)
ISA77.22.01 Power Plant Automation (new document and still in progress)
ISA77.44.01 Steam Temperature (balloting completed – new to resolve editorial comments)

The ISA77.20.01 Fossil Power Plant Simulator working group chair Bill Talbot would like to revise this standard and is looking for working group members. If you would like to participate as a working group member then please contact Bill (wtalbot@TalbotSimulationAssociates.com).

The COVID-19 pandemic affects the power industry tremendously. We had to find new ways of conducting business and maintaining social distancing. Many of us are essential workers required to work during the Coronavirus shutdown to support critical infrastructure. I would like to express my gratitude for the exceptional work being done by our members.

ISA77 Chair Sinming Kwong

POWID Membership Recognition

February 2020 through May 2020

The Power Industry Division (POWID) would like to welcome all our new and returning POWID members and our new student POWID members. We hope you will take advantage of everything POWID has to offer for your work and your career including the opportunity to network with power industry professional colleagues across the globe. Our primary goal is to provide a means for information exchange among engineers, scientists, technicians, and managers involved in instrumentation, control and automation related to the production of
power. POWID is active in developing industry safety and performance standards, working closely with two ISA standards committees—ISA67, Nuclear Power Plant Standards, and ISA77, Fossil Power Plant Standards. The Division also conducts technical training and sponsors awards for power plants and individuals advancing instrumentation and control within the power industry. POWID welcomes your involvement in our division activities. Opportunities are available to provide information for our newsletter and web site, to develop papers for presentation at our annual conference, and to participate in our division’s management structure. It’s a great way to get to know other industry professionals, to gain professional recognition, and to keep informed!

Welcome New and Returning POWID Members

Karl Ainscough-Gates
Mazhar Alam, Marafiq, DCS Engineer
Alssadig Alhaj, Emerson Automation Solutions, Field Engineer
Sergio Alzate, ECN Automation Inc., Branch Manager
Ahmad Rifiqti Anda, Instrument Engineer
Jaime Adonay Beltrán Gutierrez, SIEMENS, ingeniero en mecatronica
Tyler Bergman
Michael Bova, Acronis, Account Executive
Mr. Donald P. Brown, PE, NASA GRC, Electrical Systems Manager
Paul Butchart, NuScale Power, LLC, I&C Engineer
Mr. Abhijit Chatterjee, Adage Automation Pvt Limited, Managing Director & CEO
I-Wen Chen, Moxa Inc.
Mr. Robert D. Coll, Control Analytics Inc, Regional Sales Manager
Timothy Cooper, CSI Metrics, LLC, Owner / Controls Engineer
Anjan Dixit, C&S Electric Limited, Vice President
Mary Julia Emanuel, CISA, Incident response analyst
Erkan Erdogan, STM, Cyber Security Specialist
Patrick Essner
Charles M. Fox, Systems Engineer
Blake Freeman, Fluid Flow Products, Industrial Sales Representative
Andrés Fuentes, GFI, Cybersecurity
Chip Fuglaar, Yates, Instrumentation/Controls Designer
Paul Geddes, Zimco Instrumentation Inc., Vice President
Michael Geddes, Zimco Instrumentation Inc, Vice President
Dave Gunter
Amr M Hamzeh, Electricity Supply Board, C&I Project Engineer
Vincent Emile Hilal, National Sales Manager
Faruk Kazi, Veermata Jijabai Technological Institute VJTI, Professor
Philip Kiely, Powerflow Electronics, Engineer
Pal Kristoffersen, DNV GL, Principal Specialist
Rajendra Kumar Mishra
YEN CHENG KUO
Thedi Liem, PT. Schneider Electric System Indonesia, TSC Manager
Josh Longcor, Technica
Geri Dee McGrath, ISA, Global Director of Education & Certification
Matthew Mechana
Sandeep Mishra, Moxa India Industrial Networking Pvt Ltd, Sales Manager
Didee Ezral Mohd Rashidi, Schneider Electric, Technical Sales Consultant
Melissa Moore
Sandeep Mukherjee, KRB, Principle Technical Professional
Joaquin Negrete, AUTOCONTROL S.A., General Manager
Damilare Olayiwola
Frayno Ollero Amaro, Pluspetrol Peru Corporation, Operator
Marcus O'Mahony, Thermo King, Lead Test Engineer R&D
Joseph Lee Ortiz
Subrat Padhi, Hiindalco Industries LTD, General Manager
Mauricio Pavez, Control Activo, Engineering manager
Pavan Rajagopal
Ray Robinson, Olgem, Senior Advisor
Matthew Roman
Clinton Schneider, Emerson Electric, Director - Digital Valve Services
Robert Siegle
Mr. Arun Prakash Sivalingam, Deputy Manager
Alan Stenson, Powerflow Electronics, Engineer
Sever Sudakov, Moxa, Solution Architect
Mr. Charles Swiesz, Cyrus LLC, Principle Engineer
Neeraj Thakur, Deloitte Touche Tohmatsu, Deputy Manager
Jorge Tobar Martinez, Supervisor De Presiones
Jesus Andres Tous Tejada
Jeziel Vazquez, ITSUR, Professor
Selva Pragadeesh Kumar Venkatachalam
John Whitten, Projects of Things, Director of Projects
Ufuk Yilmaz, Alacergold
Jesús Yustas, Integracon Tecnologica Empresarial L.S.

Welcome New POWID Students

Fernando Albarran Trejo
Aaron M. Boucher
Adrian Calvario
Mr Hyun Choi
Daniel Deliva
Darcy Grau
Ricardo Jhane Guijosa De La Cruz
Shreyas Joshi
Krusha Mavani
Juan Antonio Mora Sanchez
Jose Manuel Morales Suarez
Erick Ruano
Andres Oswaldo Sanchez
Zachary Stockfleth
Guillermo Villegas