



Spring 2014 Newsletter

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Save the Date

Sat/Sun Apr. 26-27, 2014	District Leadership Conference (D13 DLC) Doubletree Fallsview Resort Hotel
Tues, Apr 29, 2014	Dinner Meeting – Guest Speaker Graham Nasby – ISA Standards
Fri, May 23, 2014	ISA Hamilton Section Golf Tournament Chippewa Creek Golf Club, Mount Hope, ON
Tues, May 27, 2014	ISA Hamilton Annual General Meeting Ashok Saha – Flow Metering Technology

Section President
Graham Nasby

Newsletter Editor
Brent Killins

Presidential Welcome Message



As you read this issue, I encourage you to look to our upcoming events calendar. We still have three major events coming up in our 2014/2015 season. First is a dinner presentation that will give an overview of the various ISA Standards that are available on Tuesday, April 29. Second is our annual ISA Hamilton golf tournament on Friday, May 23. And third is our Annual General Meeting on Tuesday, May 27 which will feature a guest speaker on flow meter selection/sizing best practices.

By the time you read this our 2014 ISA Hamilton Expo will have no doubt already happened. Held on Tuesday, March 25, 2014 the Expo is our annual trade show and enjoys a strong following from the Hamilton, Burlington and Golden Horseshoe areas. For our 2014 expo we have over 50 exhibitor tables, a student poster competition, and a full technical program with 4 speakers lined up. I expect it will have been a busy day where our attendees will appreciate the chance to see new and upcoming products and to meet our many local vendors.

Though from the perspective of an attendee the Expo is a one day event, the preparations for our show are typically a year in the making. I would like to thank our 2014 Expo committee of Cheryl Menzies and Joe Beggs for all their hard work during the past year to make our show a reality. Special thanks are also due to the many members of our ISA Hamilton board for helping with a myriad of tasks they do to make the jobs of Cheryl and Joe easier.

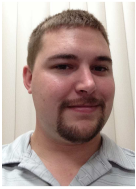
Our 2014 Expo also continued to strengthen our relationship with the Process Automation program at McMaster University/Mohawk College. Like last year we hosted a student poster completion where 4th year students presented posters to show off their final year design projects to the automation community. By coming to the show, students get a chance to interact with professionals in their field, and get valuable feedback on their work. ISA Hamilton also provides three judges each year, to help the school evaluate the posters, and prizes for the 1st, 2nd and 3rd place student design teams. We look forward to continuing the student poster competition again next year.

I am also pleased to give an update on the 2014 ISA District 13 DLC Leadership conference, which ISA Hamilton will be hosting in late-April in Niagara Falls. As I write we now have over 25 ISA leaders signed up for the conference from all across Eastern Canada. At the conference, attendees will get a chance to learn more about the ISA as a society, share ideas about putting on programming/events for local ISA members, and get a chance to get to know some more of the many volunteer leaders who make the ISA possible. Want to know more about the upcoming leadership conference? You can read more at www.isahamilton.com/2014-expo/.

I hope to see you at our next ISA Hamilton event.

Warmest Regards,
Graham Nasby
President
ISA Hamilton Section

Message from the Editor



Spring has finally arrived here in Southern Ontario and the ice, snow and freezing temperatures that winter brought will soon be just a fleeting memory. At least, we hope that's the case. We have a very busy season coming up for April and May with an abundance of interesting events.

April brings us the District Leadership Conference hosted by ISA Hamilton where members of ISA section throughout Ontario and Quebec will gather in Niagara Falls to discuss different leadership topics and conduct business for the whole of District 13 (Eastern Canada). Along with that, a presentation by Graham on the different ISA Standards, how they can help us all and his personal experience having served on standards councils.

May brings us the Golf tournament at Chippewa, an event that many of us look forward to every year. Space for this tournament fills up very quickly, so if you haven't registered already, please do so soon. May also brings us the Section's Annual General Meeting, where the new slate of officers for next year will be selected, any section business that needs to be discussed will be tabled, and a presentation will be made by Ashok Saha on flow metering technologies. We'd love to see you all there.

Brent Killins
Newsletter Editor
ISA Hamilton Section

Upcoming Member Meetings and Events

Member Meeting 6 – Guest Speaker **ISA Standards – Graham Nasby**

When: Tues. Apr. 29, 2014 @ 6:00 pm to 8:00 pm

Where: Endress + Hauser
1075 Sutton Dr.
Burlington, ON

What: The ISA has a wealth of knowledge to offer the process industries in the form of ISA standards. These standards written using a committee-based and cross-industry approach can equally applied to a wide range of industries including oil/gas, chemical, pulp/paper, mining, power, pharmaceutical and municipal water/wastewater, as well as batch and discrete manufacturing. Included in the ISA standards portfolio are technical reports, recommend practice documents, and the standards documents themselves. This talk will provide an overview of some of the ISA standards are frequently used in process industries. In total the ISA has over 180 standards, recommended practices and technical reports, not including those that have been adopted as ANSI and IEC standards.

ISA Hamilton Golf Tournament

When: Fri. May 23, 2014 @ 12:00 PM (Noon)

Where: Chippewa Creek Golf Club
3696 Chippewa Rd.
Mount Hope, ON

What: See www.isahamilton.com/golf-tournament/

Member Meeting 7 – Annual General Meeting **Flow Metering Technologies – Ashok Saha**

When: Tues. May 27, 2014 @ 6:00 pm

Where: Endress + Hauser
1075 Sutton Dr.
Burlington, ON

What: Flow metering technology has greatly evolved from the 1950s and can be broadly classified as new-technology flow meters and traditional-technology flow meters. This talk will detail how the applications can be broadly classified, the influencing factors for selection and provide the steps to find the right solution as well as an overview an overview of the tools available for selection and sizing.

ISA Hamilton Golf Tournament Registration

Attention ISA Hamilton members, if you have not already done so, please get in touch with our new Golf Tournament coordinator Jerry Gelata at golf@isahamilton.com to register your foursome (or singles) for our 2014 golf tournament. The date is Friday, May 23, 2014 and space is filling up quickly. A registration form is included in the mailing of this newsletter.

The golf tournament is an event that many of our members look forward to throughout the year. The format is a scramble (best ball) in foursomes with a few extra house rules thrown in for fun. Door prizes and a steak dinner are included with your participation. This year, for those of you who do not golf, but wish to join your friends or colleagues on the '19th hole' for a beverage, dinner and a few laughs, we've added the option of coming just for dinner.



How ISA Benefited my Career

By Graham Nasby, Eramosa Engineering

Earlier this year, I was asked to write a short article about the role ISA has played in my career. I can say that without question that ISA membership and the many volunteer opportunities afforded by the ISA have greatly shaped where I am today.

My ISA journey began in 2004 when I joined as a student member. In the following years, I made ample use of the ISA's member resources to help me at the start of my career. From reading InTech articles and accessing the ISA's many technical papers and standards, I was able to bring myself up to speed on current industry trends and techniques. It also helped me learn much the proper jargon and terminology to use when speaking to others in my field – an important skill to learn, since this was something they never covered in school.

It was early 2009 when I started to become actively involved in the ISA. At the time I was designing skidded process systems for the pharmaceutical industry and having trouble developing effective process alarms. Turns out I was not alone. Unbeknownst to me, at least until I read an InTech article about it, there was ISA standards committee working on that very topic. Wanting to learn more, I soon joined the committee and so began my journey into the ISA's committee and various leadership opportunities.

Within ISA standards committees, I got the opportunity to work with technical leaders from some of the world's leading companies towards the common goal of producing documents to help guide automation-related best practices for our various sectors. It was refreshing because I discovered that many of the technical issues I was having were in fact common issues, and there was much that could be learned from sharing experiences. Without my involvement in ISA committees, I would never have had the opportunity to work with and get to know these industry experts.

As a side effect of attending the twice-yearly face-to-face committee meetings, I also came to know the ISA's many technical divisions, conferences and geographic sections. In 2010 when the Great Recession reached Canada, and I had to change jobs from the pharmaceutical to municipal water/wastewater sector, my ISA membership and connections proved invaluable. In my new job, I was now working in a completely different sector which meant I now had new clients, new suppliers, and completely different types of automation/instrumentation. Through the ISA's water/wastewater division, I was able to make new contacts in the industry, and through my local ISA section I got to know the local suppliers in my area. To this day the contacts I have made through the ISA are one of my greatest resources.

The ISA also has an inspiring effect when it comes to publishing papers and presenting at conferences. In 2011 I presented at my first international conference, and have since then written dozens of articles for various industry publications. All of this began when a fellow ISA member suggested that publishing was a

great way to stretch your brain, meet new people, and get noticed in our increasingly global marketplace. Turns out they were right, I now regularly hear from people who have read my articles and are looking for help with their facilities. As a consultant this is a major plus.

If you ever get a chance to take on a volunteer leadership position in the ISA, I suggest you give it a try. From the various roles I have held in ISA standards committee, technical divisions, symposia, and local sections, I have learned a lot about how to work with people, strive towards technical excellence, and inspire those around me to achieve great things. The ISA has played a major role in shaping my career, and I invite you to also get involved and reap the many benefits that ISA membership brings.

About the Author

Graham Nasby, PEng, PMP is a senior ISA member and the recipient of this year's 2013 ISA Volunteer of the Year award. He is currently Co-Chair of ISA18 WG7 standards working group for alarm management for packaged systems, and Director of the ISA's water/wastewater technical division. Nasby is a senior I&C engineer at Eramosa Engineering. Contact: graham.nasby@eramosa.com

ISA Hamilton Hosts 2014 District Leadership Conference for Eastern Canada

Each year, each of the ISA's fourteen geographic districts around the world holds an annual district leadership conference. For ISA District 13 (Eastern Canada), which is the district ISA Hamilton belongs to, our annual DLC is typically held in the spring. Why does this matter, you ask? Two reasons: The first one is that our ISA Hamilton Section will be hosting the 2014 District 13 DLC on the weekend of April 26-27, 2014. The second is that, as a member of the ISA, the DLC presents a unique opportunity to learn more about the ISA, develop your leadership skills, and have a good time with other ISA leaders.

In our district (district 13), the DLC typically consists of a 2 day leadership conference that runs from Friday evening until Sunday at noon. It is held at a hotel and includes a Saturday night social event. Typical attendance is about 30 ISA leaders from the five Eastern Canadian ISA Sections: Sarnia, Hamilton, Toronto, Montreal and Saguenay/Lac St. Jean. The Saturday program consists of guest speakers on a variety of leadership topics and updates about the ISA as a worldwide association. The Sunday features a group breakfast, a short district council meeting, and a parting group photo. For ISA members who wish to attend, some travel funding is available from the local section to help cover the cost of the hotel nights and food. All you have to do is contact your section executive.

Not currently involved, but want to find out more? Feel free to contact one of our ISA section executive members to learn about this fantastic leadership opportunity.

Review of InTech PLUS!

by Clifford Wuertz, ISA Houston Section

During the recent 2013 Fall Leaders Meeting in Nashville, ISA announced their intent to venture into the world of mobile media with InTech Plus, an application, or “app”, for the Apple iPad. The society has as a part of their mission, established a goal of connecting better with automation and control professionals. ISA seeks to achieve this goal by enabling “on-the-go” access to great technical and educational content relating to the profession via this mobile app.

The first edition of the app became available on the Apple App store on March 3, 2014. Available to download for no charge, the application requires iOS version 6.0 or later. It is not currently available for the iPhone, nor for Android phones or tablets, but ISA says versions for other platforms are under development.

I was able to download and install InTech Plus in just a few minutes on my iPad Air. Upon starting the app I was greeted with what appears to be a magazine cover, not unlike a printed copy of ISA’s flagship publication: InTech magazine. Intuitively swiping right to left on the screen I was able to “page through” the content. I discovered there are a total of twenty-one (21) “pages” in this premier edition, including the cover, table of contents, a greeting from ISA President Dr. Peggie Koon, and a page of tips for using the app. Unlike a paper magazine however, in addition to turning the pages horizontally, many pages also scroll vertically to reveal more content. Many also have embedded scrolling boxes and “fly-outs” used to good effect.

This premier issue has articles on Selecting Temperature Measurement and Control Systems, Organizing Batch Process Control, Myths and Realities of Designing Human-machine Interfaces, Safety Tip: Bypasses (by Paul Gruhn of the Houston Section), Off the Shelf (excerpted from How to Become an Instrument Engineer: The Making of a Prima Donna by Gregory K. McMillan and Stanley Weiner), Pressure Basics (complete with some animated steam I might add), Pressure Transmitters, and We’re Being Acronymed and Jargoned to Death, also by Paul Gruhn. All are very informative and entertaining.

One feature of note is a brief chronicle of Automation Milestones – Memorable Moments in Automation. This side-scrolling timeline begins in 1945, the year of ISA’s founding, with twenty-three (23) significant events noted over the nearly seven decades since. It provides an interesting retrospective, although I was disappointed to not find a mention of the introduction in 1948 of the Foxboro Type 3A force balance d/p flow transmitter, nor its successor the Type 13A. Also missing is the introduction of the HART protocol, developed in the mid-1980s by Rosemount Inc. and now a global standard. It will be interesting to see if this will be a recurring feature of InTech Plus.

Also of interest is Calculation Apps for Automation Pros, which lists twenty-seven (27) other “apps” for your device with a brief description, the OS for which it is available, and how much it costs. The apps range in price from FREE to \$19.99. Of the

twenty –seven apps, ten are for Apple only, eleven are available for Apple and Android, four are Android only, and one is available for Apple and Blackberry (remember those?). One listing is for the Engineering Toolbox, which is not really an app, but a website. A QR code is provided to quickly take you to the site if you have a QR reader, although I am not sure how you are supposed to scan the code displayed on your iPad’s screen with your iPad’s camera! (I used my iPhone.)

InTech Plus is an interesting addition to the ISA’s suite of offerings for automation professionals. I admit to being a bit confused over whether it is truly an application or a digital magazine. Like Sports Illustrated, Time and Entertainment Weekly magazines (which I also have on my iPad), it is rich in multi-media content and very interactive. Unlike those however, InTech Plus installs on the iPad as a stand-alone app, not in the Newsstand app.

I came away impressed with this new offering by ISA and you absolutely cannot beat the price! It is a very impressive first effort and I am confident the development team will listen to our feedback (via email to intechplus@isa.org) and work to improve the product to achieve their stated goal.

If you have an iPad or access to one, I urge you to download InTech Plus and try it out. For best results I recommend you have a live internet connection while you explore it (so external links work) and be sure to let the team know your suggestions on how to improve the app!



ISA Cybersecurity Conference 2014

June 9-12, 2014 in Detroit, MI

The International Society of Automation (ISA), a global leader in industrial cybersecurity standards, today announces it will conduct a conference in June 2014 to help corporations and operators of critical infrastructure better protect their systems and networks from potentially destructive cyber attacks.

The conference, which will feature acclaimed industrial cybersecurity experts from industry, government and academia, will be held as a sub-conference of [THE BIG M Manufacturing Convergence](#), an inaugural event produced by SME to explore the diverse challenges and solutions across all areas of manufacturing. THE BIG M will be held 9-12 June 2014 at the Cobo Center in Detroit, Michigan USA.

"While no one can prevent industrial cyberattacks from occurring, you can significantly reduce your risk by understanding the vulnerabilities and minimizing the consequences," says Eric C. Cosman, a consulting engineer at Dow Chemical and a nationally recognized expert on industrial automation and control systems (IACS) security. "This valuable conference will shed light on what you can do to protect your industrial networks and control systems from serious damage from cyber threats."

Without taking the proper protective steps, Cosman warns that industrial cyber-attack could contribute to equipment failure and impairment, production loss or regulatory violations, with possible negative impacts on the environment or public welfare.

Through engaging technical sessions and presentations, the ISA Cybersecurity Conference 2014 will:

- Reveal how to detect cyber threats and mitigate the risks and exposure to your plant systems and networks
- Introduce proven industrial control systems security standards and practices and demonstrate how to leverage them
- Showcase best practices utilized in various industries and highlight peer experiences and lessons learned

The conference program also will pinpoint the role and ramifications of technology as well as business and human factors, and how to effectively balance them within the scope of a comprehensive industrial cybersecurity initiative.

Co-located at THE BIG M

The ISA Cybersecurity Conference 2014 is being held in conjunction with THE BIG M Manufacturing Convergence, an inaugural event produced by SME to explore the diverse challenges and solutions across all areas of manufacturing.

You'll be able to expand your knowledge in other key areas-from smart and digital manufacturing to advanced materials and sustainability-through direct discussions with industry leaders

and by participating in a wide range of small-group technical and networking sessions.

THE BIG M also features an expansive exhibition where leading companies-- including ISA--will be demonstrating their latest and most innovative solutions and services.

"When manufacturers talk about our industry, they often say, 'Not just manufacturing, but THE BIG M,' which includes the entire manufacturing enterprise from innovation and ideas, through design and production to sustainability and everything in between," says Debbie Holton, SME's Managing Director of Industry and Technology. "We will be harnessing the power of industry leaders to work toward real solutions to industry challenges-the skills gap, global competition, and new technologies like 3D printing, cybersecurity, supply chain and more.

"THE BIG M is about cool technology and research breakthroughs," she continues. "We want to engage the creative thinkers, problem solvers, technical experts and business people and invite them to be part of the change."

Register today to attend The ISA Cybersecurity Conference 2014 by visiting www.isa.org/CyberConf2014 or by calling ISA at +1 919-549-8411.

ISA: A global leader in industrial control system and network cybersecurity

ISA is widely recognized as a global leader in the development of industrial automation and control systems (IACS) security standards.

The [ISA/IEC 62443 series](#) of industrial automation and control systems (IACS) security standards are designed to prevent and mitigate IACS security vulnerabilities across all key industry sectors and critical infrastructure.

In fact, ISA's cybersecurity standards are referenced in the national [Cybersecurity Framework](#) recently introduced by President Barack Obama. ISA and its sister organization, the [Automation Federation](#), played a key role in the development of the framework.

2014 Process Control & Safety Symposium

October 6th to 9th, 2014
Houston Marriott West
Houston, TX USA

To Register Please Visit:

<http://www.isa.org>



Call for Speakers and Articles

As a service to its members, the ISA Hamilton section holds regular membership meetings. The meetings consist of dinner and a speaker/technical seminar. The meetings generally start at 6:00 pm, with the 45 minute guest speaker or tour beginning at 6:30 pm.

As well as our membership meetings, the ISA Hamilton section publishes a quarterly newsletter (which you are currently reading) as well.

We are currently seeking individuals who would like to make a technical presentation at one of our member meetings or who would like to submit any technical articles for distribution in the newsletter.

For information regarding speaking at one of our meetings, please contact our Program Chair, Michael Bovenkamp. For information regarding submission of technical articles for the newsletter, please contact our Newsletter Editor, Brent Killins.

SAVE THE DATE

ISA Hamilton EXPO 2015
Instrumentation & Process Technology
Exhibition & Conference

Tuesday, March 24, 2015

9:00 AM to 5:00 PM
FREE ADMISSION

Walk-ins Welcome. No Registration Required.
 Trade Show, Seminars, and Exhibits

Royal Botanical Gardens
 RBG Centre – Main Auditorium
 680 Plains Road West.
 Burlington, Ontario

www.isahamilton.com/expo/

About the ISA Hamilton Section Inc.

The ISA Hamilton Section is the local section of the International Society of Automation for the Hamilton, Burlington, Guelph and Golden-Horseshoe areas of Southern Ontario, Canada. ISA Hamilton Section holds regular meetings, sponsors a variety of educational endeavors, produces an annual exhibition, encourages an open exchange of career opportunities, and promotes the goals & objectives of ISA. More information at www.isahamilton.com

ISA Hamilton Section Contacts

For more information about ISA membership, the ISA Hamilton section or the upcoming section events, please do not hesitate to contact any one of us. (Email addresses are @isahamilton.com)

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Graham Nasby

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To be announced shortly

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To be announced shortly

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