



## Winter Newsletter 2011

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### Upcoming Events

1. ISA Hamilton Member Meeting: Tuesday, Feb 22, 2011
2. ISA Hamilton Expo: Tuesday, March 22, 2011:  
Royal Botanical Garden, 680 Plains Road West  
Burlington, Ontario – 9:00am to 5:00pm
3. ISA Hamilton Golf Tournament: Friday, May 27, 2011.

**Section President**  
Jerry Gelata

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## 1. Message from the President

Welcome to another edition of our section newsletter. I don't have to remind everyone that winter has settled in and we are now in the middle of the deep freeze of January. Just step outside! But that does not stop the activities of the ISA Hamilton Section from going forward.

The main event for the near future is the ISA Hamilton EXPO set for Tues, March 22, 2011. For those that contribute and support the event year after year, your co-operation and efforts are very much appreciated. And it never ceases to impress me how the event continues to grow every year.

For those who have not been able to make it in the past, please make the effort to stop by. The event is free, and we even throw in lunch! The event kicks off at 9:00 a.m with a Key Note Address from Dr. Bob Rice of Control Station entitled "Innovation in PID Controller Tuning: A Systematic Approach to Improved Controller Performance".

Dr. Rice has led the product development and services group at Control Station Inc. since joining the company in 2004. He is a recognized authority in the fields of model-based and advanced process control. We are honoured to have Bob Rice present this year, and we are sure that you will be as well.

Following Dr. Rice's keynote address at 9:00am, the exhibit hall will open at 10:00 and close at 5:00 p.m. Full details can be found on our website at [www.isahamilton.com](http://www.isahamilton.com)

Warmest regards,

Jerry Gelata  
President  
ISA Hamilton Section

## 2. ISA Hamilton Expo in March

We are rapidly approaching our annual Expo. Your section executive has been hard at work planning and organizing this year's ISA Hamilton Expo 2011 which is being held on Tues, March 22 at the RBG.

For the automation professional, this one-day event is perfect way to find out about new technology and the local vendors/distributors who can help you harness it for your automation needs. The event also features seminars and presentations on a variety of technical topics. This year we are having Dr. Bob Rice from Control Station Inc. deliver the keynote address on new techniques for PID tuning.

For local vendors and service providers, the expo is a local, low-cost event at which you can showcase your product and service offering. *For more information about exhibiting at the Expo, please contact our Expo/Exhibition Chair Alice Kelly at [expo@isahamilton.com](mailto:expo@isahamilton.com).*

**ISA Hamilton**  
**EXPO 2011**  
**Instrumentation & Process Technology**  
**Exhibition & Conference**

*...Mark Your Calendar...  
...Make Your Plans...  
Be Sure To Join Us for EXPO 2011*

**TUESDAY, MARCH 22, 2011**

**9:00 AM to 5:00 PM**  
**FREE ADMISSION**

Trade Show, Seminars, and Exhibits

Key Note Speaker at 9:00 AM:  
"Innovation in PID Controller Tuning: A Systematic  
Approach to Improved Controller Performance  
*presented by*  
**Dr. Bob Rice of Control Station Inc.**

**Royal Botanical Gardens**  
680 Plains Road West.  
Burlington, Ontario

## 3. ISA Insights: Interview with Michael Bovenkamp

*The following article appeared in the December 2010 issue of **ISA Insights** with the title "Finding Rewards in the automation profession around every corner". ISA Insights is an online publication of the ISA that can be found at [www.isa.org](http://www.isa.org). Michael Bovenkamp is an ISA Hamilton Section Member and involved with the ISA's District 13 Leadership.*

Insights asked Michael Bovenkamp to participate in a Q&A for our member spotlight this month. He is a member of the ISA Hamilton Section in Ontario, Canada.

**Insights:** Tell ISA members a little about yourself.

**Bovenkamp:** I've been working in the Canadian Steel Industry for the last 10 years. Presently, I am an automation specialist at ArcelorMittal Dofasco, and I'm focused on Project Engineering, Project Management, and Commissioning Management related to instrumentation and control systems. I developed my knowledge in the automation profession through hands on experience, mentors, company sponsored training, self education, ISA Technical Conferences, and exposure to ISA volunteer opportunities. I'm a Professional Engineer in Ontario (P.Eng.), Certified Automation Professional (CAP), ISA District 13 Vice President and a member of the ISA Executive Board.

**Insights:** What drew you to this area of industry and study?

**Bovenkamp:** I graduated from a work/study chemical engineering program at the University of Waterloo in Canada and had the opportunity to experience a variety of industries and roles within process engineering, process control, and research. It was my work-term experiences in process control and instrumentation that inspired me to pursue automation.

**Insights:** What motivates you in this industry?

**Bovenkamp:** There are many automation solutions looking to be matched with industrial problems. I enjoy working on automation project justification, engineering applications, and solution implementation. When the cost, scope, and schedule are evaluated at the end of a project,

there's a strong satisfaction in knowing that you've contributed to improving the company's bottom line.

**Insights:** When did you get involved with District leadership for the Society? Can you share some of the feedback on this role?

**Bovenkamp:** I have attended the ISA District 13 Leadership Conference as an ISA Hamilton Section delegate for nine consecutive years. After having had such strong mentoring and support from the members in my district, it is natural to me to give back to ISA in the role of District 13 Vice President. I find the role rewarding and will continue to work to support my district's members, the Society, and the automation profession to the best of my abilities.

**Insights:** Can you share how your CAP certification went?

**Bovenkamp:** In the spring of 2009, I took a CAP exam review course with an ISA instructor named Scott Sommers. I used the book *A Guide to the Automation Body of Knowledge, 2nd Edition* (<http://www.isa.org/link/autoBK>) and the CAP study guide as the primary materials for my studies. My overall knowledge related to the competency profile was not complete, and I needed many hours of study before the exam. I enjoyed the studying, and I passed the CAP test on my first try. A mentor once told me that I had to compete with other people who read textbooks for fun. ... I'm sure I'm one of those people now!

**Insights:** Describe one of your current/recent automation projects.

**Bovenkamp:** I recently completed a series of automation system upgrades within our plants as Project Manager and Control Systems Project Engineer. One of the bigger challenges was to ensure that we performed enough work in the Factory Acceptance Test, pre-operational testing, and cold commissioning to complete the Control System changeover in three hours or less. The project and commissioning plans were critical to our success.

**Insights:** Where do you see yourself in five years?

**Bovenkamp:** I have automation technology management and leadership aspirations, and I hope to be a senior knowledge resource within my

company who is devoted to continuous education. I will still be involved in ISA volunteer work and will be stepping further into the role of mentor for others in the industry.

**Insights:** What have you gained from ISA membership?

**Bovenkamp:** A competitive advantage for my career. A wealth of experience and opportunities outside my normal employment. A network of industry connections, colleagues, and friends."

Special thanks to Mike Bovenkamp for providing his reflections on ISA membership and how ISA membership continues to help him pursue his career aspirations.

#### 4. ISA Hamilton Section awards Scholarship to student at McMaster/Mohawk College

*The ISA Hamilton section sponsors annually a student scholarship that is open to students in an automation-related program at McMaster University and/or Mohawk College are invited to apply for. Information about the scholarship can be found at the student financial aid offices of both schools. The winner of the scholarship is selected by the ISA Hamilton Executive committee based on the applications received.*

The ISA Hamilton section is pleased to announce that Kavya Divakaria from the joint Automation Technology/Bachelor of Technology program at McMaster/Mohawk College is this year's winner of the "International Society of Automation-Hamilton Section Scholarship". Kavya is currently completing the third year of her studies and is looking forward to a career in automation. Congratulations!

In the fall of 2011, the ISA Hamilton section will again begin accepting applications for its student scholarship. Consult your school's financial aid office for more information.

## 5. 10th Annual ISA Hamilton Golf Tournament

The ISA Hamilton section is pleased to announce the details for our 2011 annual golf tournament

Date: Friday, May 27, 2011

Location: Chippewa Creek Golf and Country Club  
9639 Chippewa Creek Road  
Mount Hope, Ontario  
[www.chippewacreekgolf.com](http://www.chippewacreekgolf.com)

(The golf course is about 20 minutes south-west from Hamilton.  
From Hamilton, take Hwy 6 South, and turn right on Chippewa Creek Road)

Format: Shotgun Start at: 12:00 noon  
4-Person Team - Scramble Format  
(Individual or Team entries accepted)

Fees: \$ 95.00 per person Includes golf cart, prize, steak dinner including salads & desserts

\$ 475 Corporate Foursome Package  
\*\*Includes Corporate Ad Package below

\$ 125 Corporate Sponsor Ad Package  
(if purchased separately)\*\*

\*\*includes your company logo/name on a sign posted at a designated tee and a 1-year ad with a link to your company prominently displayed on our web site. <http://www.isahamilton.com>

Payment: Send a cheque payable to "ISA Hamilton Section Inc." and a list of participants to:

ISA Hamilton Section Inc.  
(Golf Tournament 2011)  
2243 Melissa Crescent  
Burlington, Ontario  
L7P 3T4

Fee must be paid by Friday April 29, 2011 so we can organize the carts, prizes and dinner for everyone.

For more information, see our website:  
<http://www.isahamilton.com/>

## 6. Making the Most Of Your ISA Membership

### Free Web-Based Training Seminars from the ISA

*This article is the first in a series about taking advantage of the resources and opportunities that come with your ISA membership.*

Feeling the pinch on your training budget? Keeping your skills up to date with training and professional development is more important than ever, yet corporate training budgets seem to be getting smaller and smaller every year. While it used to be the norm to send employees to at least a few training courses annually, tighter budgets are often trimming this back to just one course a year, or potentially none at all. So how is the automation professional to cope? There is no easy answer to this one, but the ISA has a benefit that comes with your membership that certainly helps. The ISA has, since 2005, had pre-recorded online seminars on its website that you can watch for free as part of your membership. All you need to do is to log into the ISA website, click on a few links and there you have it.

Most of the ISA online seminars are about 90 minutes long and just require a computer with an Internet connection and a pair of headphones. I was able to use Windows Media Player on my desktop PC and be up and running in under 5 minutes. Best of all, since it is streamed from the ISA website you can view, pause and restart the presentation as many times as you need.

Here is list of the currently available free web-based seminars for ISA members:

- Wireless Networking of Sensors and Instrumentation: Applications & Techniques
- Introduction to ISA100.11a (Wireless Connectivity Standard for Industrial Plants)
- Deployment of ISA100.11a – (Wireless Connectivity Standard)
- Applying Manufacturing Execution Systems (ISA-95)
- Benefits of ISA Certification
- Boiler Control Fundamentals
- DCS Alarm Assessment Overview
- Designing & Applying Model Predictive Control Strategies
- Effective Project Team Building

- Engineering Influence: Unlock the Secrets to Getting Your Way
- Fiber Optic Sensing
- FOUNDATION Fieldbus H1 Field-Level Installation and Commissioning
- Grounding in Instrumentation Systems
- How Can OPC Reduce Your Plant Control Integration Costs?
- Hybrid Systems Overview
- Industrial Ethernet Series Part 1: Understanding Ethernet Cabling & Hardware
- Industrial Ethernet Series Part 2: Is Ethernet Ready for the Plant Floor?
- Industrial Ethernet Series Part 3: Designing Industrial Ethernet Networks
- Introduction to DCS Alarm Management
- Introduction To Patents & Patent Process
- Introduction to Process Control
- Introduction to Safety Instrumented Fire & Gas Systems
- Introduction to SCADA
- Introduction to Temperature Measurement
- Is a Burner Management System (BMS) a Safety Instrumented System (SIS)?
- Is a Fire & Gas System a Safety Instrumented System?
- Manufacturing System Security Using ISA SP99
- Motivating Team Members
- Network Security Series Part 1: Cyber Security Risk Assessment for Automation Systems
- Network Security Series Part 2: Firewalls and Filtering Security on the Plant Floor
- Network Security Series Part 3: Encryption and Virtual Private Networks
- Next Generation Fieldbuses - Picking the Right One
- Noise Reduction in Signal Replacement
- Overview of Enterprise Control Integration
- Overview of Foundation Fieldbus Technology
- Overview of HMI Applications
- Safety Instrumented Systems Series Part 1: Determining Safety Integrity Levels
- Safety Instrumented Systems Series Part 2: The Pros and Cons of Logic System Technologies
- Safety Instrumented Systems Series Part 3: Field Device Issues and System Performance
- Sell More Through Effective Technical Presentations
- The ISA95 Object Models for Enterprise - Control System Integration Part 2

Accessing the online seminars on the ISA website does take few clicks, so I will walk you through what you need to do. First point your web browser at <http://www.isa.org> to load the ISA website. Click on the “Login” link near the top left corner and login with your ISA login/password. If you do not have a ISA login/password yet, click on the Login link and follow the “New to ISA” link. You can then set up an ISA web account using your membership card and some information like your mailing address.

Once you have logged in, click on the “My ISA” link on in the menu under “General Information”. A “home page” for your ISA membership will now come up. On this page click on the link for “My Online Files”. On the page that comes up, scroll down to “Web Seminars” and click on “Access your free web seminars”. A new page called “ISA Pre-recorded Web Seminars Available for Members” will now come up. Click on the “alphabetical listing” link. (Don’t use the links under “Series” as they don’t list all the seminars.) You will now see a menu page that lists the more than 40 different web-based seminars that are available. In addition to the pre-recorded seminar videos, many of the online seminars also have PDF copies of the handouts that you can print out and use to take notes as you watch and listen.

The online seminars are just one of the many benefits that come with ISA membership. This article is the first of a series that will be appearing in the ISA Section Newsletter about ISA membership benefits and how you can take advantage of them. There is a reason that the ISA is the largest organization for Automation Professionals and it’s not just for the shiny membership card. Make the most of your ISA membership—you won’t regret it.

**NEXT ISSUE:** Accessing ISA Standards on the ISA website, a free membership benefit

**About the Author:** *Graham Nasby is a licensed professional engineer who has worked in various industries ranging from IT and software development to pharmaceuticals and semiconductor manufacturing. He currently designs automated control and monitoring systems for the municipal water/wastewater sector at Eramosa Engineering Inc.*

## 7. Name that Newsletter!

Think you have a silver tongue? We'd love to hear from you about our newsletter!

We are holding a contest to rename our section newsletter from the Outlook to something new, exciting and different. Some of our newer members mentioned that the old "Outlook" name for our newsletter is a bit confusing since it sounds very similar to the Microsoft Outlook email program. So let's come up with a better name for it!

Send us an email with your suggestions for a new newsletter name to [info@isahamilton.com](mailto:info@isahamilton.com). The winning entry will receive a voucher for two free dinners at our next dinner meeting. The contest deadline is Tues, Feb 22, 2011.

## 8. Monthly Member Meetings – Call For Speakers

As a service to its members, the ISA Hamilton section holds monthly membership meetings. The meetings consist of dinner and a speaker. The meetings generally start at 6:00pm, followed by a 45 minute seminar that begins at 7:00pm.

Meetings are open both members and non-members of the ISA. Pre-registration is required so that we know how many dinners to order. Please see our website for the meeting schedule.

We are currently seeking speakers for several of our upcoming membership meetings.

We ask that presentations be non-commercial in nature. The goal of the member meeting presentations is to present technical topics of interest to our members – not sales presentations. We do accept vendor presentations provided that they are geared towards general technical knowledge and not specific product lines. We have had many excellent vendor-provided presentations in the past, and we look forward to many more.

Please visit our website to see what meeting presentation slots are available. Feel free to contact us if you are interested in sharing your knowledge with your fellow automation professionals through our membership meetings program. We look forward to seeing you at our next meeting.

## 9. Executive 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. (Note: Email addresses are @isahamilton.com)

### Officers:

#### **President**

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#### **Honours & Awards**

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#### **Marketing & Advertising**

Ashok Saha

**About the ISA:** *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. The ISA has over 150 local sections worldwide which includes the ISA Hamilton Section.*