



Spring 2018 Newsletter

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Save the Date

1-3 May, 2018 **EC00 Certified Automation Professional® (CAP®) Exam Review Course**
Carollo Engineers, Inc.
14785 Preston Rd.
Dallas, TX 75254

24 May, 2018 **ISA North Texas Golf Tournament**
Texas Star Golf Course
1400 Texas Star Parkway
Euless, Texas 76040

13 – 16 October, 2018..... **ISA Fall Leader's Meeting**
Hyatt Regency Montreal
Montreal, Quebec, Canada

Section President
Kevin Patel

Newsletter Editor
Nawaz Akhtar

President's Message



I am currently writing this message as I return from the annual district leadership conference which was held in Galveston this year. This conference is a great event that helps our current and future ISA leaders in our district help grow membership, provide valuable member benefits and keep the section viable and running well into the future. Some great ideas were generated during these meetings.

The North Texas section is always looking for people to be more involved with section activities. This may include planning and organizing, but what results are truly the major benefit. In one of our meetings, we were asked what brought you to ISA. Although, what actually brought me to ISA was my company asking me to join, the reason I began volunteering was to gain an opportunity to be the subject matter expert in areas of automation that would help grow my career. The volunteer opportunities I have had through ISA did exactly that. Along with way, I met really great colleagues that I can now rely on when I run into any questions or want to bounce ideas off of. Our section can do the same for you, our leadership team will just need to find some great ways to allow our members to gain that same experience.

We are currently finalizing preparations for our annual golf tournament at Texas Star, which has been incredibly successful and has all proceeds going towards our scholarship fund. If you haven't had the chance to join us in the past, now's a great time. Be sure to contact Bobby Brooks with EADS to check on availability for the tournament. Additionally, we will be looking at other activities such as a chili cook off and a networking event at a local brewery. We hope these opportunities are the start of something big that will bring automation professionals in our area closer together.

See you soon, be safe, and enjoy the rest of the newsletter.

Kevin Patel, P.E.
President

Take that first step!

Haven't had the opportunity to volunteer yet? Right now is a great time to take that first step and offer your help. Our Section has lots of tasks—small, medium, and large—that need someone to handle. Just let any of our leaders know how much time you have available and what types of jobs you'd be willing to do. Then, we'll get you started!

Volunteering is a great way to learn new skills while you network with other motivated automation professionals. The Section benefits and you do too! Take that first step today!

Certified Automation Professional (CAP) Exam Review Course (EC00)

The North Texas ISA section is pleased to be able to help host the next CAP certification training which will be held in Dallas, TX from 1-3 May, 2018.

Fees:

Member: \$1,680, Non-Member: \$2,105, Group: \$1,680, Affiliate: \$1,890, Automation Subscriber: \$2,105

This course reviews the knowledge and skills areas included on the CAP examination. The intent is to prepare an automation professional who meets the exam criteria to take the exam. The content is based on the Job Analysis Domains, Tasks, Knowledge Areas, and Skill Areas developed as the basis for the CAP certification exam.

You Will Be Able To:

- Define the scope of the CAP exam
- Compare process variable measurements and control valve sections
- Discuss how the various types of control technologies are used in industrial automation, including process control from basic to advanced control, discrete, batch, motor and, motion control
- Identify the range of digital communication used in automation and how these are used in system integration
- Explain when safety instrumented systems (SISs) are needed and how these are used in system integration
- Recognize the importance of electrical issues that relate to grounding and noise
- Apply the critical areas of automation opportunity identification and project justification
- Interpret the best practice methodology for automation project execution

Winter 2017/2018 Section Meeting

Our last North Texas ISA section planning meeting was held on Thursday, December 7, 2017 at Carollo Engineers, Dallas, TX. We discussed the upcoming training opportunity as well as planning for upcoming technical seminars.

Call for Job Openings

Job ad submissions are free for members and we can only publish positions that are directly focused on automation, instrumentation and controls. We will include the posting in two issues, and it will remain in the Bulletin archives online once that portion of the website is available. If you are a member and wish to submit a job ad, please send a link to where the job is posted online to knpatel@sig-auto.com.

Call for Newsletter Articles

The North Texas Section newsletter is published four times a year (winter, spring, summer, fall) and reaches the North Texas section's over 200 members. Each issue is approximately 7-8 pages long, and is electronically printed in color PDF format. A notification email goes out to all section members and it will be available for public download at the North Texas section website.

We are always on the lookout for good articles, and we welcome both solicited and unsolicited submissions.

Article submissions should be 500-2000 words in length and be written for a general audience. While it is understood that the articles are technical in nature, the use of technical jargon and/or unexplained acronyms should be avoided. We actively encourage authors to include several photos and/or figures to go along with their article.

We actively welcome articles from all of our members. However, we do ask that articles be non-commercial in nature wherever possible. One or two mentions of company and/or product names for the purposes of identification is acceptable, but the focus of the article should be technical content and not just sales literature. If you are unsure of whether your article idea is workable, please contact our newsletter editor for more information – we are here to help.

Some examples of the types of articles we are looking for include:

- Explanatory/teaching articles that are meant to introduce or explain a technical aspect of automation and/or instrumentation.
- Biographical stories about personalities and/or leaders.
- Case studies about plant upgrades and/or the application of new technologies and techniques. This type of article must include at least two photos along with the article text.
- Pictorial case studies about a plant upgrade consisting of 4-6 photos plus a brief 200-500 word description of the project undertaken. The article should ideally include one to two paragraphs about lessons learned and/or advice for other automation professionals.
- Historical reflections on changes in technology pertaining to specific aspects of instrumentation or automation, and how these changes point to the future.
- Discussions about changes in the automation industry and how these affect the automation professionals.



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**Certification
Training Coming
to Dallas
in May!**



Certified Automation Professional (CAP) Exam Review Course (EC00)

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You will cover:

- **Field Devices:** Pressure, Level, Temperature, and Flow Measurement; Analytical Measurement; Discrete Field Devices; Control Valves; Communication Concepts
- **Control and Simulation:** Response and Loop Characteristics; PID Control; Advanced Regulatory Control; Multi-variable Control; Distributed Control System; Control Strategy Design Steps; Documentation; Batch Control; Discrete Control; Drive Control; Motion Control
- **Operator Interface and Alarm Management:** Human Machine Interface (HMI); Historical Data
- **Integration:** Communications; Manufacturing Execution System (MES); Network Security
- **Safety, Reliability, and Electrical:** Safety Instrumented Systems (SIS); Hazardous Area Classification; Protection Techniques; Intrinsic Safety; Pressurized Enclosures; Grounding, Shielding, and Interference
- **Maintenance Management:** General Maintenance Activities; Maintenance Repair and Improvement; Computerized Maintenance Management; Maintenance Execution Responsibilities
- **Workflow and Project Leadership:** Opportunity Identification and Project Justification; Communications and Team Processes

Course dates:

1-3 May 2018

Location:

Carollo Engineers, Inc.
14785 Preston Rd.
Dallas, TX 75254

Fees:

Member: \$1,680
Non-Member: \$2,105
Group: \$1,680
Affiliate: \$1,890
Automation Subscriber: \$2,105

Length: 3 days

CEU Credits: 2.1

Course Hours: 8:00 a.m.–4:00 p.m.

Classroom/ Laboratory Exercises:

Practice taking CAP
exam-style questions

Includes ISA Text:

*Certified Automation
Professional Study Guide*

Recommended Resource:

*A Guide to the Automation
Body of Knowledge, 2nd
Edition, by Vernon Trevathan*

To register, visit

www.isa.org/2018/EC00/TX or call +1 919-549-8411

Space is Limited—Register Now!

National Engineers Week Future City Competition

The ISA North Texas section was a sponsor for the local Future City Competition. As a sponsor, our section gave out an award which was the Excellence in Automation award. This award went to the team model “Eterna” from Westridge Middle School. ISA North Texas section president, Kevin Patel, was at the event along with vice president, Bobby Brooks, and member, Cooper Carden. The award was given out at the end of the competition. The winners from the competition went on to the national competition in Washington DC. See the included pictures of the city model and the “Eterna” team. Congrats!

BACKGROUND:

Just what is Future City? The Future City Competition is the nation's largest not-for-profit engineering education program. Its purpose is to encourage students to pursue a technical career, to address important environmental issues in our world, and to realize their vision of a city of the future. The winner of our regional event will go on to compete in Washington, DC during National Engineers Week. All of it is possible, but only through the combined efforts of volunteers and sponsors.

The students are challenged in a series of fun, hands-on applications to present their unique set of solutions to the real-world problems of creating a livable city. To do so, they will adopt the principles of every branch of engineering to support their assertions. Each competing team is asked to first generate a computerized design of a future city, then build a scale model of that city using as many recycled materials as possible.

This year’s challenge was “Age-Friendly Cities.” The students must research and write a paper about engineering solutions to the challenges facing older adults. And, finally, the team delivers a seven-minute verbal presentation defending their vision before a panel of judges at UTA on January 27, 2018.



 **North Texas**
Section
Setting the Standard for Automation™

2018 Golf Tournament Save the Date

We are happy to announce the details of this year's golf tournament. Save the Date:

WHEN: Thursday, May 24, 2018 @ 1:00 pm

WHERE: Texas Star Golf Course
1400 Texas Star Parkway
Euless, Texas 76040

The North Texas ISA once again seeks your participation in our annual fund-raising golf tournament. Come individually or with a complete team. Your entry fee will cover green fees, golf cart, range balls, dinner and prizes.

The 2018 golf tournament will be held at the Texas Star Golf Course in Euless. Texas Star is a serene public golf course with a private feel and with 275 acres of plush fairways, magnificent views, stacked rock ponds, waterfalls and natural woodlands.

We would love to have you and any guests for Dinner and Beverages even if you don't plan on playing. \$20 will cover dinner and beverages for non-players.

The tournament will be played as a 4-man Florida Scramble and we will utilize a shotgun start beginning at 1:00 pm. Registration and free range balls will begin at 11:30 am. Following the tournament dinner, beverages and awards will be provided.

Please contact Bobby Brooks via Email at bbrooks@eadslink.com or via phone at (214) 341-3401 or (214) 725-4775 for any questions regarding the event.

ISA Members: Unemployed?
Learn how to extend your membership for **FREE**

isa.org/unemployedmembers





Setting the Standard for Automation™

Article: Are you getting the most out of your ISA membership?

During my years as an ISA member I have witnessed the dedication and sterling contributions of ISA members first hand. Whether I'm attending ISA division and section events, participating in Society leadership, or going to budget meetings, I have always been impressed and excited about ISA members' passion and dedication.

Today, I am asking ISA members: Are you getting the full value of your ISA membership? To the reader who is not an ISA member, I am asking you to learn about some of the benefits and make an informed decision about joining our Society.

ISA membership costs just \$120 per year and gives you access to dozens of benefits. But even more than these line items, it gives you a way to belong to the profession that you've chosen for your life's work.

ISA provides its members access to technical information, professional development resources, and opportunities to engage with other automation professionals. Our mission is to enable our members-including world-wide subject matter experts, automation suppliers, and end-users working together-to develop and deliver quality, unbiased automation information, including standards, training, publications, and certification programs.

You can meet and network with some of the world's finest automation professionals, and you can engage with people right in your backyard through our geographically oriented sections.

ISA's 140 sections, located throughout the world, connect members with technology, expert advice, and world-class programming at the local level, while ISA's technical divisions feature opportunities to network and learn from industry leaders in specific topical or industry areas.

Given their local/regional structure, ISA sections offer a convenient way for members to take part in ISA initiatives and events happening nearby. Some ways that members can get involved and contribute at the section level include:

- Attending regular section meetings to explore mutual professional interests with like-minded people
- Inviting technical experts to present at section meetings
- Speaking at local schools and universities to generate student interest in automation careers
- Funding scholarships for local college and university students who demonstrate potential and interest in the automation field
- Receiving local newsletters with market trends, technical articles, etc.
- Accessing training courses, technical conferences, and social events

As an ISA member, you should also take full advantage of your two free technical division memberships... and why stop at just two? Additional memberships cost only \$10 US each.

ISA's annual technical division symposia allow ISA members and the automation community to meet face to face with renowned experts and presenters, and hear first-hand about the latest technologies and trends. You'll be able to exchange best practices and success stories, attend executive keynote presentations, sit in on standards committee meetings, take training courses, and experience leadership gatherings at ISA events like these:

- Leak Detection and Repair-Fugitive Emissions Symposium (LDAR)
- Analysis Division Symposium (AD)
- Power Industry Division Symposium (POWID)
- Water/Wastewater and Automatic Controls Symposium (WWAC)
- Food and Pharmaceutical Industries Division Symposium (FPID)
- International Instrumentation Symposium (IIS)
- Process Control and Safety Symposium and Exhibition (PCS)

Are you using the technical knowledge that's available and could benefit you given the challenges in your day job? Why not step up and participate in these industry groups or attend their events?

In addition to ISA's geographic sections and technical divisions, ISA membership also gives you access and discounts for ISA's renowned products and services, including these favorites:

- **ISA standards:** Get free online viewing of ISA's collection of more than 160 automation standards that streamline processes, and improve industry safety, efficiency, and profitability. ISA standards serve as best-practice guidelines through design, construction and operation, and they are developed by thousands of industry experts. In addition to viewing the standards, you can also participate in a standards committee and help shape the industry's future.
- **ISA training:** Your ISA membership includes discounted rates for ISA's training courses, known and respected worldwide for their practical approach to technology application. You can take courses online, in classroom settings, or in your plant.
- **ISA publications:** Get access or discounted purchase rates on more than 180 print and online technical resources, including books, newsletters, articles, technical papers, and more
- **InTech magazine:** Members receive a free subscription to InTech magazine, which informs automation and control professionals about technical innovations, ideas, product information, news, and advice. Much of the magazine's

editorial content is provided by ISA's members, who are encouraged to submit articles.

Perhaps most valuable of all, you'll grow as a professional by joining this Society. We have programs and opportunities that help you develop and practice your leadership skills, and by getting more engaged, you'll meet people who can change and shape your career in the years to come.

In my case, one of the main reasons that I joined ISA was to meet other people with an automation and instrumentation background that could offer advice about challenges I was having in my day job. I found ISA members were always willing to help me in my early years. And now the table has turned, and there is a younger networking group in my section who look to me to give advice on their challenges. Being an engaged member in ISA is like belonging to a real family, where everyone is always there when you need them with no strings attached.

If you're an ISA member and you haven't taken advantage of all we have to offer, start now-pick an area to explore and start doing new things with your membership. If you're not a member yet, consider joining us-we'd love to welcome you to the ISA family.

Brian Curtis
2018 ISA President

About the Author



Brian Curtis, I. Eng., LCGI, is the Operations Manager for Veolia Energy Ireland, providing services to Novartis Ringaskiddy Ltd. in Cork, Ireland. He has more than 35 years of experience in petrochemical, biotech, and bulk pharmaceutical industries, specializing in design, construction management, and commissioning of electrical, instrumentation, and automation control systems. He has managed complex engineering projects in Ireland, England, Belgium, the Netherlands, Italy, and Germany. A long-time ISA member, Curtis has served on the ISA Executive Board since 2013, the Geographic Assembly Board (2012 – 2015), and the Finance Committee (2013 – 2017.) He was Ireland Section President and Vice President of District 12, which includes Europe, the Middle East, and Africa. Curtis has also been active on several Society task forces, including Cybersecurity, Governance, and Globalization-related committees. He received the ISA Distinguished Society Service Award in 2010. He is the Former President of Cobh & Harbor Chamber of Commerce (2013-2015) and Former Chairman of the Ireland Southern Region Chambers (2015-2016) and is an active member of the Ireland National Standards Body, ETCI.

New North Texas Section Members

A big welcome to our recently joined members from November 2017 to April 2018. We hope to see you soon at our next event.

November 2017

William Wylie - Grapevine, TX

December 2017

Geoff McNabb - Colleyville, TX
Cooper Corder - Dallas, TX

January 2018

Jeffrey Parrish - Corsicana, TX

February 2018

Michael Taylor - Charlotte, NC
Brad Borgwald - Waco, TX

March 2018

Anthony Brown - Waco, TX
Michael Sands - Fort Worth, TX
Stephanie Barbee - Wylie, TX
Phillip Ponders - Wylie, TX
Max Monio - Wylie, TX

Setting the Standard for Automation™

Special Member Perk: Webinars



As a member, enjoy the privilege of **unlimited, free** access to a library of over 80 online, pre-recorded webinars covering today's hottest automation topics.

 isa.org/webinars



Have an **idea** for an ISA standard, book, training course, conference topic, or other product or service?

Send it to: **ideas@isa.org**




Setting the Standard for Automation™



Newsletter Advertising

The North Texas Section newsletter is an excellent way to announce new products and services to the North Texas members. With a distribution of 200+ professionals in the automation, instrumentation and SCADA fields, the newsletter is an effective targeted advertising tool.

The newsletter is published quarterly, on the following approximate publication schedule:

- Winter Issue – published in December/January
- Spring Issue – published in March/April
- Summer Issue – published in June/July
- Fall Issue – published in September/October

Advertising in the newsletter is offered in full page, half page and quarter page formats. Advertisements can be purchased on a per issue basis or for four issues at a time. The newsletter itself is distributed as a full-color PDF, so both color and black/white artwork is acceptable.

The current advertising rates are as follows:

Per Issue:

- Full page, full color (7" x 9"): \$200
- Half page, full color (7"x4.5" or 3.5"x9"): \$100
- Quarter page, full color (3.5" W x 4.5" H): \$50

Per year (4 issues):

- Full page, full color, 4 issues (37% discount): \$500
- Half page, full color, 4 issues (31% discount): \$275
- Quarter page, full color, 4 issues (25% discount): \$150

Other sizes of advertisements are available, but are priced on an individual basis. Contact us for more information.

Please book advertising space as early as possible before the intended publication date. Artwork for advertisements should be submitted a minimum of two weeks prior to the publication date; earlier is always better than later. Artwork for advertisements can be submitted in EPS, PDF, PNG, JPG or GIF formats. EPS, PDF and PNG formats are preferred. Images should be at least 300dpi resolution if possible.

The ISA North Texas Section is run on a non-profit basis for the benefit of its members. Monies raised from the sale of advertising in the newsletter are used to help offset the cost of section programming and events. Like its parent organization, the ISA, the North Texas Section is a non-profit member-driven organization.

For more information, or to discuss other advertisement sizes not outlined above, please contact the newsletter editor Nawaz Akhtar at nawazakhtar@hotmail.com.

ISA North Texas Section Contacts

For more information about ISA membership, the ISA North Texas section or the upcoming section events, please do not hesitate to contact any one of us.

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About the ISA North Texas Section

The ISA North Texas Section is the local section of the International Society of Automation for the North Texas area. ISA North Texas Section holds regular meetings, sponsors a variety of educational endeavors, encourages an open exchange of career opportunities, and promotes the goals & objectives of ISA. For more information see <https://www.isa.org/north-texas/>.

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 40,000 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. For more information see www.isa.org.