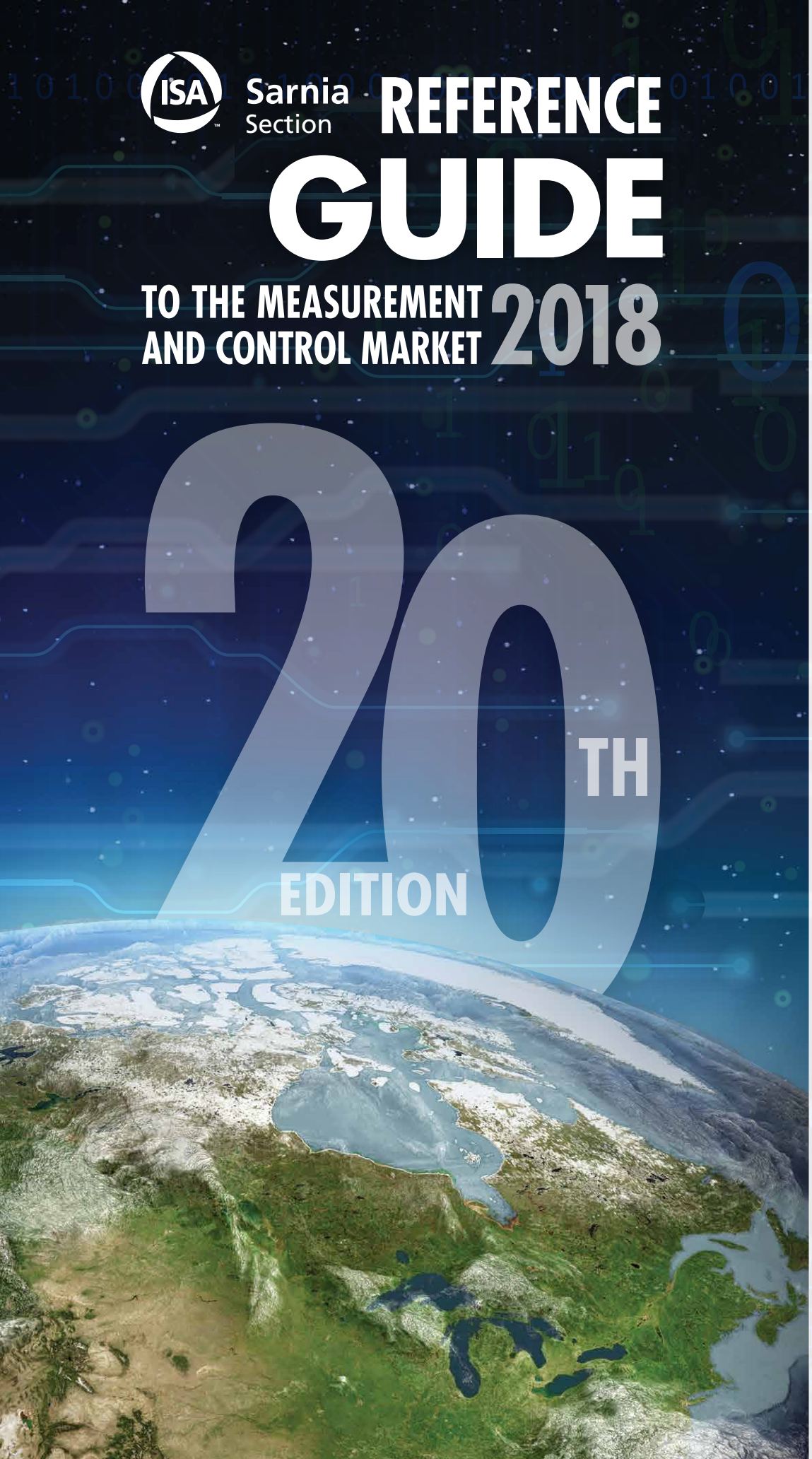
ISA Sarnia Section

REFERENCE GUIDE

TO THE MEASUREMENT AND CONTROL MARKET 2018

20TH EDITION



CB Automation Inc.
SEE AD INSIDE BACK COVER

Davis Controls
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Endress+Hauser
People for Process Automation
SEE AD ON PAGE 10

GREAT LAKES INDUSTRIAL CONTROLS
SEE AD ON PAGE 22

MACWELD machining
SEE AD ON PAGE 12

rotork
SEE AD ON PAGE 24

SRP control systems ltd.
Instrumentation & Calibration Instruments since 1980
SEE AD ON PAGE 26

INSTRUMENTS VERONICS INC.
SEE AD ON PAGE 18

WIKA
SEE AD INSIDE FRONT COVER

NEXT ISA SHOW
April, 2019

LINK TO YOUR VENDORS AT
www.isasarnia.com

Products

Temperature

RTD's: Industrial, Ex-Proof & Remote Assemblies; Industrial, Bayonet, Bearing, Stator, Surface, Replacement & Cut-to-length Sensors; Compact, HVAC, Heat Trace & Sanitary Designs

Thermocouples: Industrial, Ex-Proof & Remote Assemblies; Industrial, Bayonet, Surface, Replacement & Cut-to-length Sensors; High Temperature, Plastic Melt, Multi-point, Reactor, Tubeskin & Sanitary Designs

Thermometers: Bi-Metal, Industrial, Gas & Vapour Activated, Infrared & Twin-Temp

Thermowells: Threaded, Flanged, Weld-in, ScrutonWells®, Support collars, Vanstone & Sanitary Styles (CRN registered & CSA approved)

Transmitters: Analog & Digital with displays: Fieldbus, PROFIBUS-PA & HART® communication

Wire & cable: MI Cable, Extension & Measurement Grade TC Wires

Level

Magnetic Level Indicators: Reed Chain Indicator Transmitters, Dry Contact & Reed Type Indicator Switches
Reflex & Transparent Level Gauges

Pressure

Gauges: Absolute, Differential, Duplex, Relative, Low Pressure & Precision Measurement; Commercial, Industrial, Process & Sealgauge® Applications

Diaphragm Seals: All welded & Capsule Style Systems in Threaded, Flanged, Inline, Saddle, Sanitary & Plastic designs

Electronic: Switches, Transducers, Transmitters & Indicators for OEM, Industrial, Sanitary, Submersible & Hazardous Location Applications

Accessories: Alarm Contacts, Overpressure Protectors, Pressure Snubbers & Siphons

Calibration

Temperature: Dry Wells, Baths, Handheld Thermometers, Resistance Thermometry Bridges, Precision Resistors, Reference Thermometers, Precision Thermometers

Pressure: High Precision Gauges & Transmitters, Smart Transducers, Deadweight Testers, Hand-held Instruments, Test Pumps, Controllers, Air Data Test Sets, Custom Designed Calibration Systems

Flow

Primary Flow Elements: Venturi Tubes, Orifice Plates & Flanges, Flow Nozzles, Meter Runs, HHR FlowPak & Flow Tubes, Accessories

Force

Sensors: Compression & tension load cells, differential pressure & hammer union pressure sensors, amplifiers, meters & inclination sensors, custom designed solutions

Field Services

FAST Instrument Program: Instrument audits, Turn around planning, Failure analysis, Instrument safety training

Installation & Commissioning: Instrumentation design & routing, Field welding, Installation supervision

Calibration: On-site Temperature and Pressure Calibration vehicle

Distributor

YZ Systems Milton Roy
Gas & Hydrocarbon Sampling Systems, Meter Lubrication Systems, and Odorization & Odorant Detection Systems

Parker PGI
Instrument Valves (Block & Bleed, Manifold, Mini & Needle), Multiport Valves, Manifolds, Direct Mount Systems, and Thermoelectric Chargers

PR electronics
Temperature transmitters, signal conditioners and isolators, Intrinsically Safe barriers, displays and other specialty devices

Invensys Eurotherm
Single & Multi-Loop Controllers, Customizable Panel Mount Controllers, SCR & SSR Power Controllers, Indicators, Alarm Units

Flow Management Devices LLC
"New Generation"of Unidirectional Captive Displacement Provers

L.J. Star Incorporated
Process observation equipment including sight windows, visual flow indicators, vessel lighting, sanitary fittings, camera systems and gage glass for sanitary and industrial applications

Kimray Inc.
Valves (Control, Dump, Oil, Treater & Motor), Liquid Level Controllers, Pressure Regulators, Temperature Controllers, Glycol Pumps, Control Pilots, Turbine Flow Meters

MTS Sensors
Magnetostrictive liquid level instruments for sanitary and process tank measurement applicaitons

Dockweiler
Tube Systems in Stainless Steel

Edmonton Head Office
3103 Parsons Road
Edmonton, AB T6N 1C8
Tel: (780) 463.7035
Fax: (780) 462.0017

Oakville
#1, 2679 Bristol Circle
Oakville, ON L6H 6Z8
Tel: (905) 337.1611
Fax: (905) 337.2716

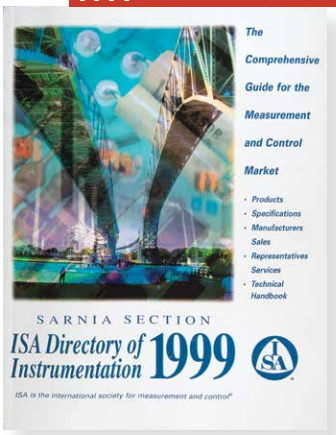
Calgary
4932 – 52nd Street SE
Calgary, AB T2B 3R2
Tel: (403) 237.5960
Fax: (403) 264.0095

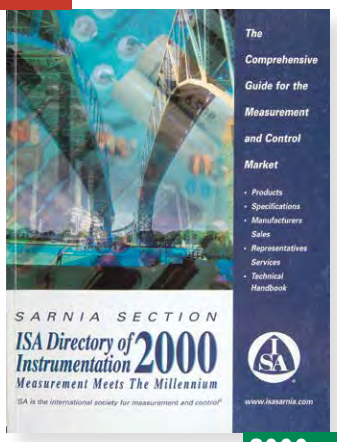
Fort McMurray
4, 380 Taiganova Cr.
Fort McMurray, AB T9K 0T4
Tel: (780) 791.9995
Fax: (780) 743.2296

Sarnia
Tel: (519) 344-1339
Fax: (519) 344-3824

www.wika.ca
info@wika.ca

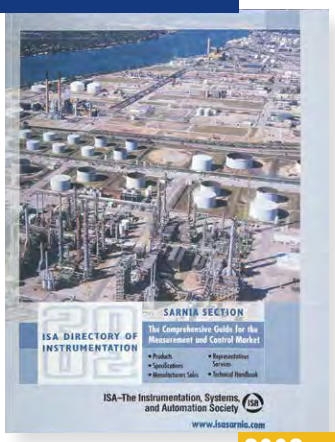
1999





2000

2001



2002

20TH EDITION 2018

ISA Sarnia Section

P.O. Box 206, Sarnia, ON N7T 7H9
www.isasarnia.com

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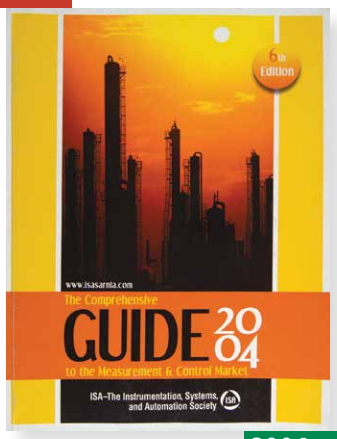
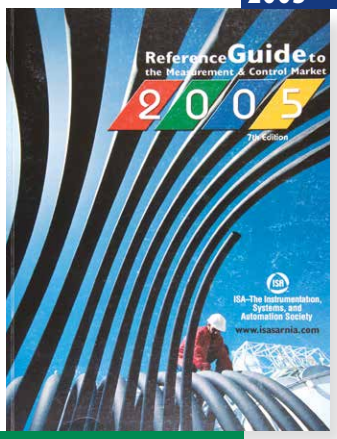
"Dedicated to advancing the knowledge and practice related to the theory, design, manufacture and use of instruments and controls in science and industry."

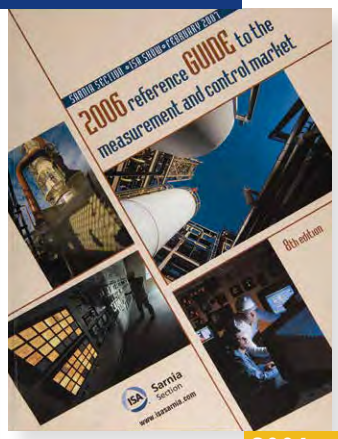
2003



2004

2005





2006

REFERENCE GUIDE TO THE MEASUREMENT AND CONTROL MARKET 20TH EDITION 2018

Sarnia Section General Meetings

Sarnia Golf and Curling Club

Year 2018: January 29, March 26, May 28, September 24, November 26

Year 2019: January 28, March 25, May 27, September 30, November 25

Sarnia Section Executive Meetings

Sarnia Golf and Curling Club

Year 2018: February 26, April 30, June 25, August 27, October 29, December 10

Year 2019: February 25, April 29, June 24, August 26, October 28, December 9

ISA Sarnia Section Executive Group 2017/2018

Mike Murray
President

Don Murch
Executive Assistant

Kalpen Vachharajani
Past President

Ken Armitage
Treasurer

Executive Board

President
Mike Murray

Past President:
Kalpen Vachharajani

Treasurer:
Ken Armitage

Executive Assistant:
Don Murch

Assistant Treasurer:
Mike Grey

Committees

Newsletter Editor:
Anthony Greene

Newsletter Editor Assistant:
Mirko Pepe

Web Master:
Christy Alexander

Web Master Assistant:
Wally Nickel

Program Chair :
Phil Luppke

Program Chair Assistant:
Ted Zavitz

Honors & Awards Chair:
Rick Breault

Membership & Marketing:
Rob Dickson

Membership & Marketing Assistant:
Randy Dennie

Student Section Liaison:
Mike Grey

Standards & Practices:
Adam Allan

Standards & Practices Assistant:
Mirko Pepe

Golf Chair:
Roman Norejko

Education Chair:
Ted Zavitz

Education Chair Assistant:
Brian Smith
Dave Woodill

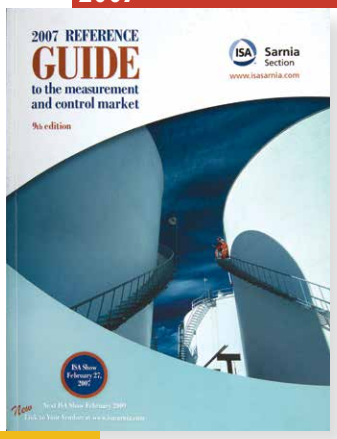
Section Historian:
Mike Murray

Reference Guide:
Mike Murray
Ken Armitage
Kevin Noon
Mike Spearman

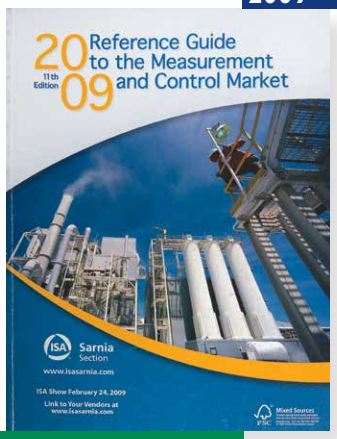
Show Chairman:
Kalpen Vachharajani

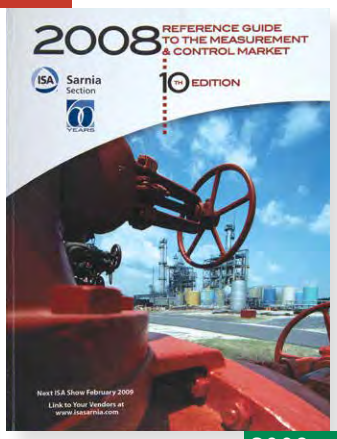
Show Assistant:
Brad King

2007



2009





2008

2010

Message from the Reference Guide Committee

This is the 20th edition of the ISA Sarnia Section's Reference Guide to the Measurement & Control Market.

Our committee in conjunction with Grafiks Marketing and Communications continues to strive to meet the goal of producing a first class reference resource for the Sarnia Section that is of high quality and industry useful. We encourage new member participation and with small time commitments required there is a large reward and very high satisfaction level achieved.

We wish to thank the advertisers for their continual support and we hope to continue to work with you to provide added value to our reference guide. Please visit our website site www.isasarnia.com to view our advertiser listings as well as the brand name to supplier and product category to supplier cross references. With the ability to browse and link to the required information this is a useful tool that complements the printed version.

We are always looking for more technical information and articles to provide your clients with added value. As well we continue to ask for feedback. Let us know if you have any concerns, comments, suggestions, and prospective new sponsors. Again, we wish to thank all of our advertisers for without you we would have no publication.

Enjoy our new 2018 Reference Guide to the Measurement and Control Market.

Thank you from the

Sarnia Section
- ISA Reference Guide Committee

Mike Murray
Ken Armitage
Kevin Noon
Mike Spearman

Mike Murray
Chairman
President
Historian

Kevin Noon
Committee Member

Ken Armitage
Committee Member
Treasurer

Mike Spearman
Committee Member

ISA Sarnia Section

ATTENTION MEMBERS OF ISA

If you would like to ensure that you advertise in this publication on an annual basis contact:

ISA Reference Guide Committee

Mike Murray
519-336-1495

Ken Armitage
519-336-3543

Kevin Noon
519-332-3132

Mike Spearman
519-346-1713

ISA Sarnia President's Message – Reference Guide 2018

Welcome to the 20th edition of ISA Sarnia Section Reference Guide to the Measurement and Control Market. Over the years the Reference Guide has become the premier purchasing reference for automation professionals. This handy reference tool, compiles the most relevant listings of manufacturers, service companies, and manufacturer representatives from across Ontario. It puts extensive information about manufacturers and service companies at your fingertips whenever you need it.

This reference guide is published in paper and can also be accessed on-line by visiting **www.isasarnia.com** website. Apart from being a purchasing reference, this guide also features valuable technical information and conversion tables. Each year the Reference Guide continues to enhance in terms of content and ease of use.

This is the 71st anniversary year for the Sarnia Section and it is my distinct honor to serve as the President of such an esteemed organization. For all these years, the Sarnia Section of the International Society of Automation has been giving automation professionals from across South Western Ontario the opportunity to come together while having premium access to technical knowledge and career development. The automation professionals who become ISA members and take advantage of these opportunities become valuable assets to their employer and achieve higher career growth.

Like other professions, the automation profession in North America will also be affected by wholesale entry of people from developing countries. The scenario where Canada, US and other industrialized nations were leading in knowledge-intensive industries and developing nations in lower skills and lower cost labour have changed. This will bring new challenges and at the same time amazing opportunities to the local automation professionals. Even though the days of tough competition are coming, knowledge and innovation will become a true source of value.

I encourage all the instrumentation, automation and system professionals to become part of and take advantage of the various opportunities provided by ISA. I strongly believe that the techniques you will learn will help you develop more skills, agility and long term relevance to and for your employer.

Apart from the Reference Guide, your Sarnia Section executives and officers have planned many quality programs for this year. Dinner meetings, educational seminars, table top shows, engineering week, golf tournament etc. to name a few. Visit section website **www.isasarnia.com** often as the details of the programs are constantly updated.

Congratulations to the Reference Guide committee for another successful publication year. Thanks, to all the advertisers and technical contributors for your support, without your support this successful publication would not be possible.

To the user of this Reference Guide, a big thanks for making this a premier purchasing and technical Reference Guide. Enjoy yet another edition of great references and support for our advertisers. When you call or write to any of the advertisers, please mention that you have seen their advertisement in the ISA Sarnia Section Reference Guide.

It is an immense honour for me to be leading the ISA Sarnia Section into the future, hopefully setting up for another 71 years of success. Please come, join us and be part of this premier organization and have your say in the future of the automation profession. I will be looking forward to a chance to speak with many of you in person at our various Section activities throughout the year.

Regards,

Mike Murray
President – ISA Sarnia Section
Email: m.c.murray@cogeco.ca

Past-Presidents

1945/46	ISA officially was born as the Instrument Society of America on April 28 1945, in Pittsburgh, Pennsylvania, USA	1964/65	Robert Newman	1993/94	Bill Arundell
1946/47	Albert F. Sperry, chairman of Panelit Corporation, became ISA's first president in 1946. Sarnia Section not yet chartered.	1965/66	Ted Stock	1994/95	Larry Corbett
1947/48	C.G. Elder (Sarnia Section received charter September 1, 1947)	1966/67	Ted Stock	1995/96	Mike Murray
1948/49	W.J. Graeb	1967/68	Bill Rion	1996/97	Randy Dennie
1949/50	Ken Goldring	1968/69	Bud Dodds	1997/98	Andrew Tucker
1950/51	Amby Upfold	1969/70	Ray Wechselberger	1998/99	Mike Murray
1951/52	Ken Goldring	1970/71	Bill Glendon	1999/2000	Mike Murray
1952/53	Amby Upfold	1971/72	Curt McDonald	2000/2001	Randy Dennie
1953/54	Warren McKay	1972/73	Everett Maness	2001/2002	Randy Dennie
1954/55	Jack Heatley	1973/74	Stan Thrift	2002/2003	Kalpen Vachharajani
1955/56	Larry Hall	1974/75	Bernard West	2003/2004	Don Murch
1956/57	Harold Kohlmeier	1975/76	E.A. Comello	2004/2005	Brian Smith
1957/58	Ron Asselstine	1976/77	Jim Henrikson	2005/2006	Don Murch
1958/59	Mike Hicks	1977/78	Jim Johnson	2006/2007	R.Steven Webster
1959/60	Mike Hicks	1978/79	Ron Thurier	2007/2008	Brian Davidson
1960/61	Mike Hicks	1979/80	Dave Braedley	2008/2009	Brian Davidson
1961/62	George Mills	1980/81	John Stassen	2009/2010	Jeff Talbot
1962/63	Robert Brayne	1981/82	Wayne Jamieson	2010/2011	Jeff Talbot
1963/64	Robert Newman	1982/83	Frank Bandura	2011/2012	Rob Dickson
		1983/84	John Tranter	2012/2013	Rob Dickson
		1984/85	Robb Sharp	2013/2014	Mike Murray
		1985/86	Ron Kells	2014/2015	Mike Murray
		1986/87	Howie Whitton	2015/2016	Kalpen Vachharajani
		1987/88	Joe Lobo	2016/2017	Kalpen Vachharajani
		1988/89	Irvin Hawkes		
		1989/90	Rich Paterson		
		1990/91	Ken Blair		
		1991/92	Jim Lomax		
		1992/93	Bob Kelly		

ISA Sarnia Section

Are you taking full advantage of your ISA membership?

At the International Society of Automation (ISA), we offer members a wealth of benefits—many of them **absolutely free**—that can significantly enhance your ISA experience, and help you to take full advantage of ISA's premier resources and opportunities in the field of automation.

Below, you'll find a handy reference guide that outlines ISA's core member benefits and personal privileges and explains how to access them.

➤ To access your benefits online:

You must first create an account at www.isa.org. Once you have created an account, you can log in any time to access your benefits. Applicable member discounts will be automatically applied.

➤ To access your benefits when ordering by phone:

call ISA Customer Service at +1 919-549-8411.

Core ISA Member Benefits

Benefit	Direct link on isa.org
➤ Free ISA Section membership Join an ISA section for free in your local area. ISA section meetings ensure that members stay up to date on all matters and activities relating to ISA, and connect and interact with ISA members in their local areas.	www.isa.org/sections
➤ Free Online Viewing of ISA Standards View more than 150 ISA standards, recommended practices, and technical reports online, free of charge, for your personal use. If you would like to download an ISA standards document, you may use your new Standards Redemption Coupon* towards its purchase.	www.isa.org/standards
➤ Member Discounts Receive significant discounts (20% in most cases) on training, publications, application for certification testing, and event registration. Purchasing just one training class as an ISA member saves you more than $300 on average—one book purchase racks up $30 in savings—and one standard purchase results in $120 of savings!	www.isa.org
➤ Free Downloads of ISA Technical Papers Gain free, unlimited downloads of ISA technical papers (more than 5,500 of them) as downloadable PDF files. New papers are added each year as new conferences are conducted. A search guides retrieval of the papers by keyword, event, date, or author and will help you find the technical paper you seek. Each technical paper purchase saves you $10!	www.isa.org/technicalpapers

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➤ Free Technical Division Memberships Receive two free technical division memberships, one from ISA's Automation and Technology Department and one from ISA's Industries and Sciences Department. Additional memberships cost only $10 US each.	www.isa.org/divisions
➤ Free participation in ISA's Leadership Development Certificate Program Enroll by completing and submitting the form on the ISA website	www.isa.org/leadershipadvantage
➤ Free participation in ISA's mentoring program To become or find an ISA mentor	www.isa.org/mentor
➤ Free online networking via ISA's LISTSERV Participate in ISA's email discussion lists	www.isa.org/listserv
➤ Free access to the ISA member directory	www.isa.org/memberdirectory
➤ Free subscription to *InTech* Magazine and *Automation Weekly* enewsletter As a member, you'll receive a free subscription to *InTech*, the premier magazine for automation professionals, and the *Automation Weekly* enewsletter. You can subscribe to both print and online editions of *InTech* magazine by logging in on the ISA website. Members also can mail or fax in a completed form.	www.isa.org/intech/subscribe
➤ Free online access to *ISA Transactions* *ISA Transactions* covers the latest advances in measurement and automation	www.isa.org/isatransactions
➤ Free online resume posting on the ISA website You can upload and manage your resume.	www.isa.org/jobs
➤ Free online access to *ISA Insights* *ISA Insights* is ISA's monthly member enewsletter. All ISA members automatically receive *ISA Insights* via email, but you can also access it online at any time.	www.isa.org/isainsights
➤ ISA gift certificates Gift certificates are given to members for recruiting new members. They are good toward any ISA product or training course registration. To receive credit for recruiting, include your name and member number in the Rewards for Recruiting box in the upper right corner of the new member's form.	New member should fax ISA Membership Enrollment Form to ISA customer service at +1 919-549-8288

ISA Personal Privileges for International Members

Benefit	**Direct link on isa.org**
➤ ISA Logo Proudly display your affiliation with ISA by using the ISA member logo on your business card	www.isa.org/logos
➤ Access international travel insurance	www.isa.org/travelinsurance
➤ Car rental savings Receive car rental savings from Avis Worldwide and Budget Car Rental	www.isa.org/avis www.isa.org/budget
➤ CogniCall Global Calling Card Use calling card services from more than 50 countries	www.isa.org/cognicall
➤ Wyndham Hotels Discounts Enjoy savings on room reservations around the world	www.isa.org/wyndham

* The Standards Redemption Coupon is available for full dues-paying members only. The coupon is equal to the dollar amount you paid for your membership (e.g., $110 for one-year Members, $205 for a 2-year membership term, etc.). The option and ability to use the coupon is available in your online shopping cart and when you place an order with ISA Customer Service by phone. The coupon can be applied to downloadable and print versions of individual ISA standards documents only, and not the listed IEC documents. In addition, the coupon cannot be applied to any other standards-related products, such as software licenses and CDs. Unused money remains in your account for the balance of your paid membership term. The coupon is non-transferable. Note: Your redemption coupon must be used before your ISA membership expires because when your ISA membership expires, so does your coupon.

Setting the Standard for Automation™

Membership Enrollment Form

Join or Renew Online:
www.isa.org/joinisa

Additional ways to join or renew:
Mail this form to: ISA, PO Box 12277, Research Triangle Park, NC 27709-0185, USA
Fax this form to: +1 919-549-8288
Call ISA Customer Service at: +1 919-549-8411
Email ISA Customer Service at: info@isa.org

1. Member Information Please print clearly.

❑ Mr. ❑ Ms. ❑ Dr. Name: Last/Family/Surname _____ First/Given _____ Middle _____
(Include suffix and/or professional designation)

❑ PE ❑ CSE ❑ CCST® ❑ CAP® ❑ CMRT

Company _____ Position/Title _____

Correspondence will be sent to this address: This is your: ❑ Home Address ❑ Business Address To have a second address on record, enter it at **www.isa.org.**

Mailing Address/PO Box _____ Mail Stop _____

_____

City _____ State/Province _____ Postal Code _____

Country _____ Email Address _____

Telephone ❑ Mobile ❑ Home ❑ Business _____ Fax _____
(include area code or country and city code) *(include area code or country and city code)*

Birth date _____ /_____ /_____ Twitter username _____ LinkedIn public profile URL _____
mm dd yyyy

Have you ever been a member of ISA? ❑ No ❑ Yes Member No. _____

Highest degree earned: ❑ High school ❑ Associate/Vocational ❑ Bachelors ❑ Masters ❑ Doctorate

ISA will assign you to the closest local Section. If you have a Section preference, please list it here: _____

Students Only: Required: School _____ **Required:** Date of expected graduation (mm/dd/yyyy) _____

2. Industry and Job Information

Check your standard industry classification (SIC): (choose only one)

❑ 0000 Other _____
❑ 1000 Metal Mining
❑ 1300 Oil & Gas Extraction
❑ 1700 Construction
❑ 2000 Food
❑ 2100 Tobacco Products
❑ 2200 Textiles
❑ 2600 Pulp, Paper & Allied Products
❑ 2800 Chemicals
❑ 2830 Pharmaceuticals
❑ 2900 Petroleum Refining & Related Industries
❑ 3000 Rubber & Miscellaneous Plastics
❑ 3200 Stone, Clay, Glass & Concrete Products
❑ 3300 Primary Metals
❑ 3400 Valves, Fittings, Fabricated Metal Prods
❑ 3500 Industrial Machinery & Equipment, including Computers
❑ 3600 Electronic & Other Electric Equipment
❑ 3660 Communications Equipment
❑ 3670 Semiconductors & Electronic Components
❑ 3700 Transportation
❑ 3710 Transportation-Automotive
❑ 3720 Transportation-Aircraft
❑ 3760 Transportation-Aerospace
❑ 3800 Instmtn/Measmnt/Analysis & Ctrl Apparatus
❑ 3840 Medical Instrumentation & Systems
❑ 4600 Utilities-Pipelines except Natural Gas
❑ 4810 Communications
❑ 4900 Utilities
❑ 4910 Utilities-Electrical
❑ 4920 Utilities-Natural Gas
❑ 4930 Utilities-Combo (Nuclear/Foss Fuel, etc)
❑ 4940 Utilities-Water/Wastewater
❑ 5000 Instrument & Ctrl Apparatus Sales & Svce
❑ 7370 Systems Integration
❑ 8200 Education
❑ 8710 Engineering Services
❑ 8730 Research, Development & Testing
❑ 8740 Management Consulting
❑ 9100 Government

Check your primary job function: (choose only one)

❑ 1 Product Design Engineering including applied R&D
❑ 3 Engineering Management
❑ 4 Integrator/Re-seller
❑ A General or Corporate Management
❑ AB MIS
❑ AD Factory Automation Systems
❑ AG Engineering Consulting
❑ AH Supply Chain Management
❑ AI Environmental Controls
❑ AJ Safety Systems Engineering
❑ AK Automation Engineering
❑ AN Instrument Engineering
❑ AO Process Engineering
❑ AP Networking/Communication Systems
❑ AQ OEM Product/Systems Engineering
❑ AS Project Management
❑ AT Engineering (Other)
❑ AU Student
❑ B Control Systems Engineering
❑ D Production Engineering
❑ E Plant Engineering, Operations and Maintenance
❑ F Software Engineering
❑ G Plant Information Systems
❑ H Systems Integration
❑ I Measurement, Testing, Quality or Stds Engrg
❑ J Research & Development
❑ K Technical or Engineering Support
❑ M Purchasing/Procurement
❑ N Education
❑ O Marketing or Sales
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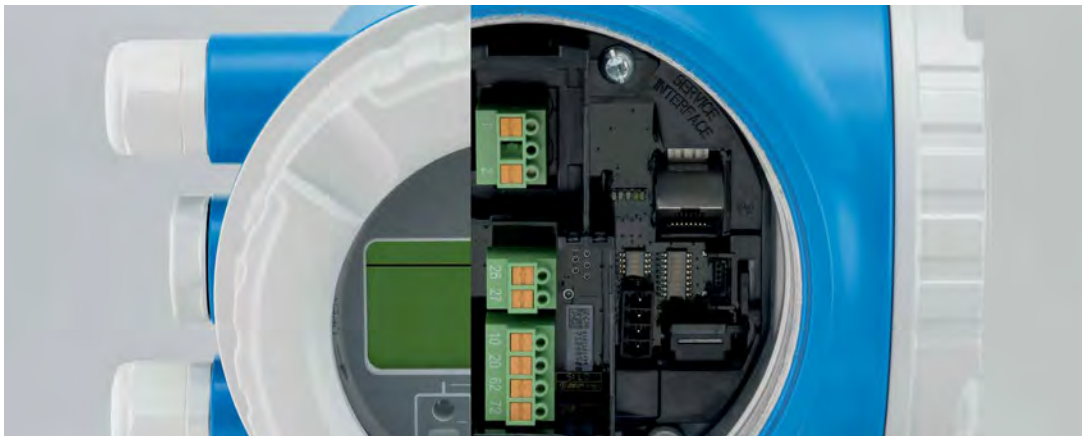

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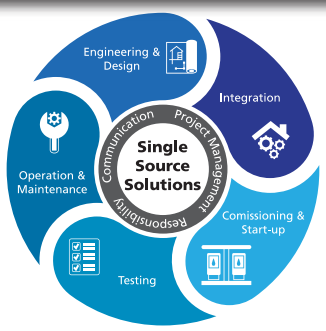

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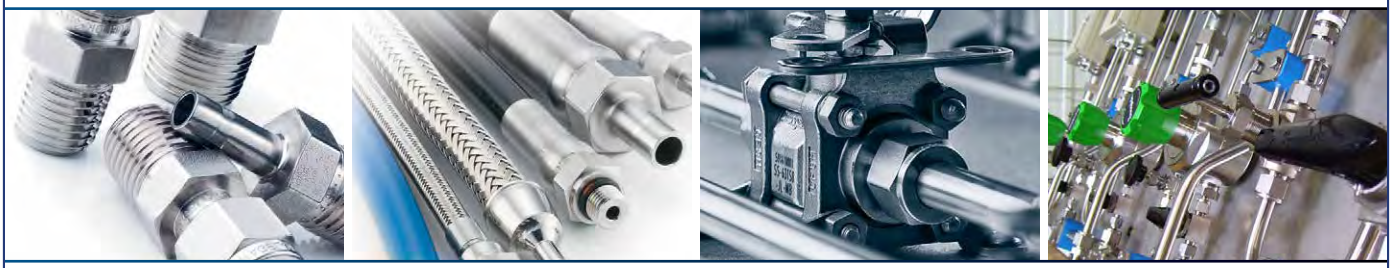

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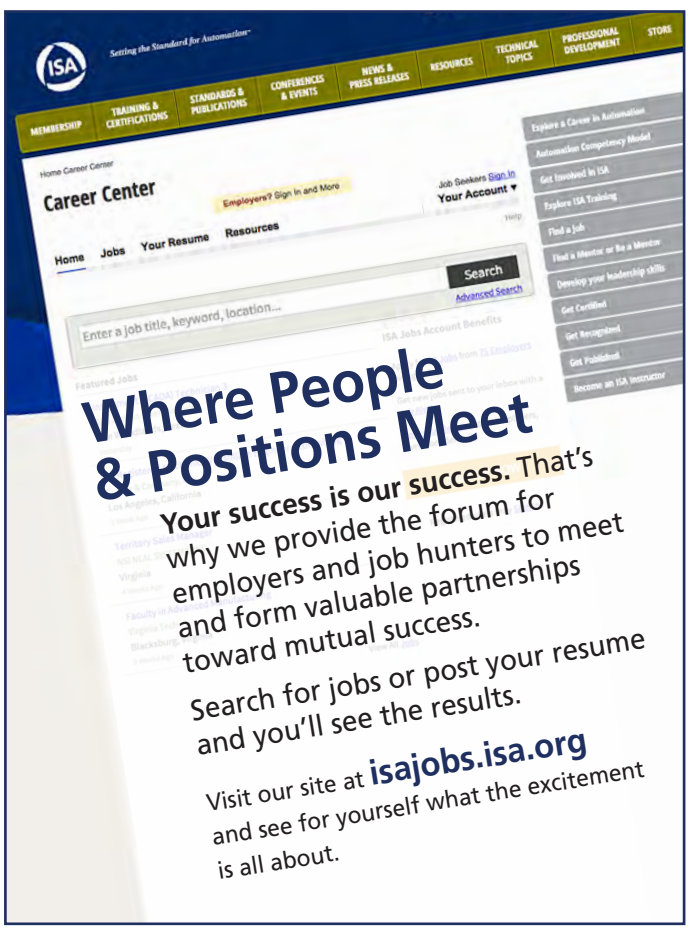

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