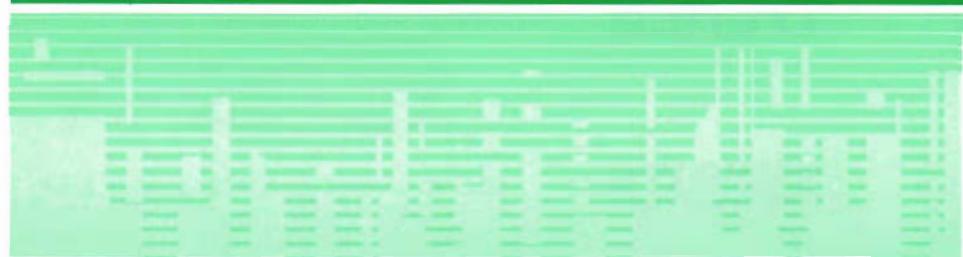


ANNUNCIATOR

March 1996



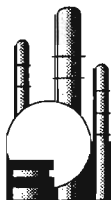
SARNIA



SECTION

The International Society
for Measurement and Control





Mentec Sarnia Ltd.

Phone: (519) 336-9512 Fax: (519) 336-9834



BROOKS Flow Meters: Rotameters, Oval Gears, Bi-Rotors, Pistons, Massflow Meters For Liquids & Gases, Electronic Flow Monitoring & Control Instrumentation, Sight-Flow Indicators, Petroleum Flow Control Valves, Net-Positive-Suction-Head Control Valves For Pump Protection Without Recirculation



KF INDUSTRIES High-Performance API FIRESAFE Ball Valves, ANSI Classes 150 Through 2500, Sizes 1 Through 36", In-Line Chokes, Needle Valves



..... Modulating Solenoid Valves For Critical Services (Turbine Trips & Emergency Shut-Off)



..... Severe Service Control Valves With Class 8 Shut-Off, Optical Laser-Beam Valve Positioning Systems, Electropneumatic Controllers, Instantaneous Steam-Water Heaters, Steam-Water Mixers, Non-Fouling Gas & Steam Regulators



..... Electric Heat Tracing Systems, Self-Regulating & Mineral-Insulated, Monitoring Systems



..... Pressure-Gauges & Diaphragm Seals, Thermometers, Fail-Safe Temperature Regulators, Automatic Self-Contained Steam Tracing Control Valves To Protect Instrument Enclosures From Overheating



..... High-Performance Ball & Butterfly Valves, API & EXXON FIRESAFE Approved, Pneumatic & Electric Actuators, FUGITIVE - EMISSION VALVES



..... High-Performance Knife-Gate Valves For Polymer Slurries, Manual & Automated



..... Steam Traps & Strainers & Expansion Joints

GARY JENSEN • BRAD TAYLOR • BARB FOWLIE

List of Advertisers

| Company | Page No. | Company | Page No. |
|--------------------------------------|----------|---------------------------------------|----------|
| ABB-Kent Taylor | 17 | Lisle-Metrix | 16 |
| Alpha Controls | 18 | Mac-Weld | 60 |
| Armatek Controls | 15 | Mentec Sarnia Ltd. | 2 |
| Associated Valve Corp. | 9 | Milltronics | 16 |
| Axiom Technologies Ltd. | 37 | Moore Products Co. (Canada) Inc. | 23 |
| Baker Instruments | 4 | Northern Abcor | 28 |
| Bestobell Canada | 62 | Novatech | 10 |
| Brian Controls | 6 | Ovantum | 15 |
| Cambridge Controls | 27 | Phoenix Contact Ltd. | 36 |
| Campbell Scientific | 20 | Professional Valve | 49 |
| Canadian Puregas Equipment Ltd. | 61 | Provincial Controls | 59 |
| Cancoppas Ltd. | 48 | Regional Process Equipment | 8 |
| Cantech Controls | 35 | Romatec | 18 |
| Cantrils | 42 | Rosemount | 54 |
| CAPT | 26 | Sarnia Piping Specialties | 32, 57 |
| CB Engineering | 24 | Semac Power & Controls | 20 |
| Century Valve & Machine | 52 | Sharp Valve | 28 |
| Contro Valve Inc. | 33 | Southwest Meters | 4 |
| Conval Equipment | 52 | Spec (Sarnia) Ltd. | 44 |
| Davis Controls | 35 | Spirax Sarco | 15 |
| Detech Industries | 22 | SRP control | 64 |
| Elsag Bailey Inc. | 13 | SSCAN Technologies | 50 |
| Endress & Hauser | 8 | Summit Controls Ltd. | 58 |
| Farris Industries | 57 | Syber Systems | 44 |
| Fisher Service | 62 | Transcat | 19 |
| Floval Equipment | 39 | Tubetech Ltd. | 12 |
| Fryston Canada | 45 | United Electric | 19 |
| HCS Heating & Control Systems | 51 | Utility & Industrial Supply | 13 |
| Hardie Industrial Supplies | 16 | Vermeer Engineering | 35 |
| Honeywell Ltd. | 63 | Veronics Instrument | 4 |
| Huron Valve | 22 | Waltech Associates | 43 |
| Intertec Instrumentation | 7 | Westburne Lytle | 12 |
| ISA Distribution Centre | 60 | Westech Industrial | 56 |
| J&M Engineering | 52 | Wika Instruments | 22 |
| Lakeside Process Controls | 80 | Willer Engineering | 48 |
| Langtree Controls Ltd. | 17 | | |

VERONICS INC.

MOISTURE ANALYSIS

- Microprocessor Based
- Levels from 1 ppb
- Enhanced Response
- On-Line Analysis
- Liquid Hydrocarbon Service
- Portable Systems

GAS ANALYSERS

- Flue Gas
- Oxygen (ppm to 100%)
- Carbon Monoxide
- Carbon Dioxide
- Portable and Continuous
- Custom Systems

FLOWMETERS

-Ultrasonic

- Portable and On-line
- Liquid and Gas Phase
- Single and Multichannel
- CEM Flowmeters
- Flare Gas Meters

-In-Line

- Turbines
- Contact Head
- Paddlewheels
- Low Flows (0.05 GPM)

WASTEWATER ANALYZERS

- TC/TOC/TOD/Titrators

250 WYECROFT ROAD, UNIT 15
OAKVILLE, ONTARIO L6K 3T7
TEL (905) 842-5664 FAX (905) 842-0540

500-7575 ROUTE TRANSCANDIENNE
ST-LAURENT, QC H4T 1V6
TEL (514) 335-9482 FAX (514) 747-1717

BAKER INSTRUMENTS LIMITED

42 DUFFLAW RD., TORONTO, ONTARIO M6A 2W1
1-800-561-8187 FAX: (416) 781-9484

ALNOR



VELOMETERS - DEWPOINTERS - THERMOMETERS - PYROMETERS
DEAD WEIGHT TESTERS - TEMPERATURE CONTROLS
LOW PRESSURE DIFFERENTIAL PRESSURE SWITCHES, GAUGES, MANOMETERS
DIFFERENTIAL PRESSURE TRANSDUCERS - MAGNEHELIC GAUGES - ANALOG & DIGITAL TACHOMETERS
TEMPERATURE, PRESSURE & FLOW RECORDERS
ROTOMETERS, ORIFICE PLATES & FLANGES, OPEN FLOW MEASUREMENT

OVER SIXTY YEARS serving industry in Canada

SOUTH-WEST METERS LIMITED

P.O. BOX 1083
765 EVETT STREET
SARNIA, ONTARIO N7S 5N3
BUS: (519) 336-8629
FAX: (519) 336-9082

"WE MEASURE UP TO YOUR STANDARDS"

Shop and Field Services Provided:

- Certified Meter Proving & Repair • Instrument Repair
- Liquid Transfer Systems • Weight & Measures Calibration
- Preventative Maintenance Programs • Tank Level Equipment

Contents

| | |
|---|----|
| ISA Mission Statement | 7 |
| President's Corner | 11 |
| Sarnia Section Executive | 14 |
| ISA Perspectives | 21 |
| ISA Member Benefits | 26 |
| ISA Member Record Change | 29 |
| Lambton College Student Section | 30 |
| Written on a Roll Chart | 31 |
| Log On To The World | 32 |
| Analysis Division Symposium | 38 |
| DINNER MEETING NOTICE | 40 |
| January Dinner Meeting Highlights | 41 |
| Upcoming Meetings | 41 |
| Isa Golf Tournament | 43 |
| SARNIA SECTION BBS | 46 |
| ISA Career | 47 |
| MEETING DATES | 49 |
| News Release | 53 |
| Did You Know? | 55 |
| ISA Group Internet Rates | 61 |
| ISA Membership Application | 65 |
| User's Directory | 66 |
| NOTES | 78 |
| Past President's Honour Roll | 79 |

Editor's Notes

Watch for the continuing saga... **"WRITTEN ON A ROLL CHART"**

These are the collective writings of HOWARD HOBBS, with commentary by Bob Connell.

ADVERTISERS: Please note that the deadline for the MAY ANNUNCIATOR is April 15, 1996. Please forward information to the editor by that date in order to have items updated.

ANNOUNCEMENTS:

- Volunteers are required for ISA Golf Tournament. See Page 43 for Details.

**THE DINNER MEETINGS FOR THE 1995/96 SEASON
WILL BE HELD AT THE LAMBTON SHRINE CLUB,
940 CONFEDERATION ST., SARNIA**

ISA Sarnia Section
Box 206
Sarnia, Ontario N7T 7H9

ISA Sarnia Section BBS
(519) 541-0427

Solutions In Measurement & Control

PROCESS CONTROL EQUIPMENT

Sensors, Transmitters, Controllers, and Recorders
for Flow, Level, Pressure, Temperature, pH, Conductivity, ORP, Resistivity

SAFETY & ENVIRONMENTAL MONITORING

Toxic Gas Sensors, Air Samplers, Noise and Heat Stress Monitors,
Indoor and Ambient Air Quality Analyzers, Stack Gas Measurement Systems

INDUSTRIAL INSTRUMENTATION - CALIBRATION & TEST EQUIPMENT

Gauges, Indicators, Meters, Sensors for Force, Flow, Level, Pressure, and Temperature.
Flow, Pressure, and Temperature Calibration Equipment.

Specialized Labs - Instrument Shops - Certified Traceable Calibration

Providing Custom Modification, Liquid Filling, Diaphragm Seal Assembly,
Programming and Certified Calibration Traceable to N.I.S.T. and N.R.C.

Honeywell

PROUDLY REPRESENTING :

AMETEK

CONTROL
MICROSYSTEMS



BLUE WHITE



Mid-West
Instrument



INDUSTRIAL SCIENTIFIC
CORPORATION

SIGNET
GEORGE FISCHER • GF •

SPARLING



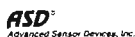
EnviroNics



COMBUSTION GROUP
Saab Tank Control



PLASMA THERM
FLAME THERM



Sales, Service and Distribution throughout Canada:

BRIAN CONTROLS

A DIVISION OF **PEACOCK**

A Member of the Weir Group PLC

Application
Specialists
Across Canada

Halifax - Moncton - Quebec - Montreal - Ottawa - Toronto - Sarnia - Sudbury - Winnipeg - Saskatoon - Calgary - Edmonton - Vernon - Vancouver

Immediate
Customer Service
Across Canada

Local
Calls :

Montreal
366-5757

Toronto
890-5880

Sarnia
337-7591

Edmonton
438-2322

Vancouver
944-3200

Long
Distance :

Toll Free: 1-800-313-3103

SHARP

VALVE & INSTRUMENTATION INC.

SARNIA – MISSISSAUGA

Official and Authorized Representatives for:
ROCHESTER INSTRUMENT SYSTEMS, LIMITORQUE, FIKE,
SHAND & JURS, L&J TECHNOLOGIES, RESISTOFLEX,
WIKA, HEX VALVE, KOMAX HEATERS, DURABLA,
LUDLOW-RENSSEALER

PHONE: (519) 336-8484

FAX: (519) 336-0928

**1407 PLANK ROAD
SARNIA, ONTARIO**

COMPLETE PRESSURE RELIEF, BALL, GATE, GLOBE, PLUG,
BUTTERFLY, CONTROL VALVE AND ACTUATOR REPAIR.
FULL CALIBRATION SERVICE.

INTERTEC

 **FURON
UNITHERM**

**ENCLOSURES CABINETS HEATERS MANIFOLDS
PRE-INSULATED & TRACED BUNDLE**

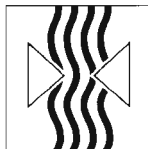
INTERTEC INSTRUMENTATION LTD., 400 MOROBEL DRIVE, MILTON, ONTARIO, L9T 4N6
TELEPHONE (905) 875 4727 FAX (905) 875 4729
REPRESENTED BY NORTHERN ABCOR PROCESS EQUIPMENT & CONTROLS
TELEPHONE 1 800 547 4443

ISA's Mission

*To be the foremost worldwide society with
the science and application of measurement
and control technologies, and to advance
members' competence, professionalism, and
recognition.*

Endress + Hauser Canada Ltd.

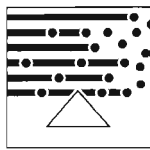
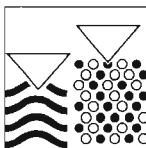
FLOW



Magnetic Flowmeters.
Coriolis Mass Flowmeter
straight-tubed 'm' point
Vortex Meter with the E+H
patented DSC sensor.

Level detection and
measurement by:
Conductivity, Vibronics,
Capacitance, Hydrostatic,
Ultrasonic & Microwave
- the *widest* choice by
any manufacturer.

LEVEL



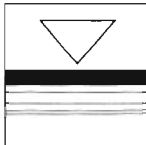
SOLIDS

Movement and mass
flow measurement using
Doppler, Inclined Plate
Weigher, Belt Weigher
and *unique* Cross-
Correlation Granucor for
two phase flow.

BULK

Cerabar family of Pressure
Transmitters & Switches and
Deltabar Differential
Pressure Transmitters with
the *first* single chamber self-
checking ceramic cell.

PRESSURE



MOISTURE

Full range of Hygrometers
and Relative Humidity Meters
using polymer, omega and
smart aluminum oxide
sensors for *all* your moisture
Measurement needs in both
gases and liquids.

REGIONAL PROCESS EQUIPMENT

Sarnia

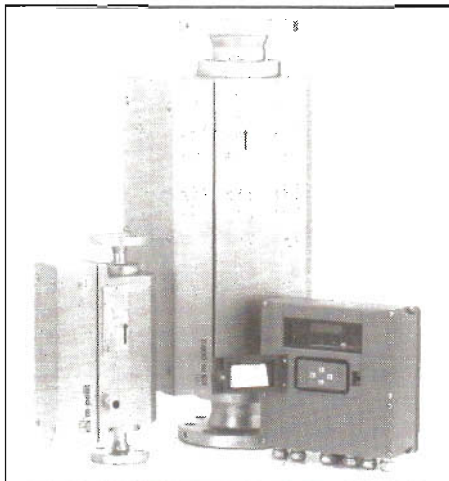
(519) 337-7758

Endress + Hauser
Measurement for Automation.



mpoint

Coriolis Meter for Mass Flow, Temperature & Density of Liquids & Slurries



- Straight through flow tubes: self-draining, resistant to corrosion
- Secondary containment standard
- Simultaneous mass, density & temperature
- Compact design
- 2-wire connection
- Easy to install, simple operator interface
- CSA Class I Div I & II, MCCR, (CRN)

Regional Process Equipment

415 Exmouth St. #5B, Sarnia, Ont. N7T 5P1

Ph: (519) 337-7758 Fx: (519) 337-7933

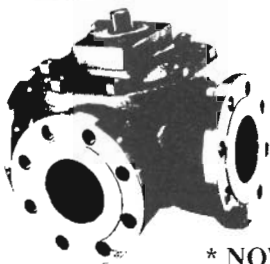
Sarnia area representatives for

Endress + Hauser



Regional Process Equipment

415 Exmouth St. Unit 5 B. Sarnia, Ontario
PH: (519) 337-7758 FAX: (519) 337-7933



Ball Valves

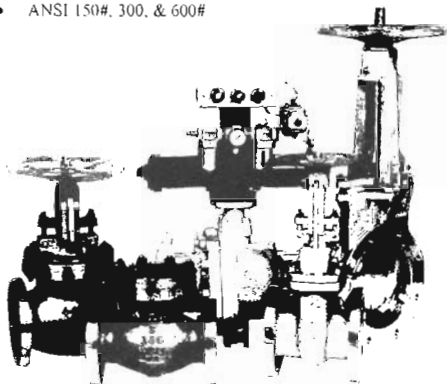
- ISO 9000 certified
- Exxon approved
- Nace Trim
- API 607 certified
- Metal Seat-High Temp
- 3 way, 2 & 4 seat



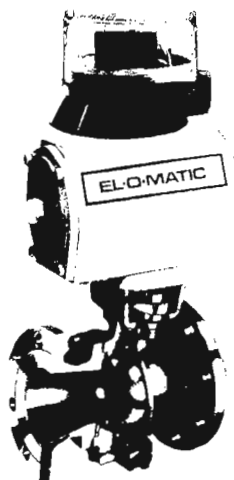
*** NOW STOCKED IN SARNIA ***

Tong Yung Gates Globes & Check Valves

- ISO 9000 Certified
- Exxon & API 607 approved
- Nace Trim
- ANSI 150#, 300, & 600#



Full Automation & Control Services



Associated Valve

Montreal

5600 Cypriot
 Ville St-Laurent (Quebec) H4S 1V7
 Tel.: (514) 339-5374 Fax: (514) 339-1550
 Technical Support 1-800-465-5374



Instrumentation • Process • Environment

Toronto

160 Wilkinson Road, Unit 38
 Brampton (Ontario) L6T 4Z4
 Tel.: (905) 453-7224 Fax: (905) 453-2464
 Technical Support 1-800-465-5374

GAS ANALYSIS

Servomex
 LEADERS IN GAS ANALYSIS

Paramagnetic and zirconia oxygen analyzers.
 Photometers for stack and process.
 Continuous Emission Monitoring Systems (CEMS).

SENSIDYNE
 Gas and Particulate Detection

Toxic and combustible gas detectors.
 Fixed and portable systems.
 Portable FID/GC.



Environmental Technologies Group, Inc.

Ion-Mobility Spectrometers for:
 emissions, process, and ambient monitoring.
 Open path FTIR.

TELEPHONICS ELECTRONICS

Portable stack monitoring analyzers.



Baldwin Environmental, Inc.

Sample conditioning systems for:
 CEMS, both portable and fixed.
 Sample probes.

MECO

Trace level gas moisture analyzers.
 PPB, PPM detection levels.
 Portable and fixed analyzers.

LIQUID ANALYSIS

TYTRONICS
 INCORPORATED

On-Line process titrators, colorimeters,
 and photometers.
 TOC analyzers.



Industrial process pH, conductivity, and
 ion-selective electrodes and transmitters.

LMI

Chemical metering pumps,
 controllers, and accessories.



On-line moisture measurement in solids
 utilizing radio-frequency principle.

GENERAL PRODUCTS

NOVATECH
Engineering Group

Customized systems integrators.
 Application engineering, technical support.
 Sample multiplexing systems.
 Continuous Emission Monitoring Systems.

Kistler-Morse

Electronic weighing and level systems.
 Bolt-on microcells and
 direct support load cells.
 Complete batching systems.
 Ultrasonic level systems.



Bebo Industries
 (IN SARNIA SEE CANTROLS)

Purging and pressurization systems.
 X, Y, & Z purges; CSA approved.

Pribusin Inc.

Signal conditioners, isolators, alarm
 modules, and multiplexers.
 Linearizers, integrators, and transmitters
 for frequency, temperature,
 and strain gauges.

President's Corner

Time certainly marches on; just a few notes.

In regards to the Charter, after this last meeting with the Lawyer our Executive Assistant is finalizing the last bit of paperwork and then we just have to update the lists and we're in order.

We had our ISA night at CAPT with great success. The tour and "on line" demonstration was well attended right to the end. Many thanks to Brian Smith and the staff at CAPT. It certainly was well demonstrated how one could spend endless hours in the 'net'.

I just got back from the President's Winter Meeting where meetings were the business of the day.

The first day and a half were consumed by developing a strategic plan which will lead ISA for the next few years. This was refined through various meetings throughout the rest of the week with different departments given the responsibility for different objectives within the goals.

I also heard that our district Vice President, Don Coggan was resigning. I then changed my focus to attend some of the D.V.P. meetings.

The council of D.V.P.'s has assigned Les Keast from District 10 to be their representative at our District Workshop, April 27 & 28, 1996. They have also requested the Sarnia Section to help get it going. Along with that premise, I have asked Jim Lomax, our Past DVP to be a co-ordinator with Les.

A few other topics:

ISA is looking at redistricting, since South America is growing by leaps and bounds.

ISA on line is doing a promotion "For Members Only". This will ensure the membership has access to all the ISA benefits.

One of the main changes is how ISA will do their main conferences. It will now be viewed as a two year package. The first year will be a Control Tech (main emphasis on the technical side) and the next year will be a Control Fair (main emphasis on the exhibit). These will start in 1997.

The okay was given to start building the new ISA Headquarters and put up the signs for the sale of the other two buildings.



A great deal of business in a short time. Bye for now.

See you at the Dinner Meeting.

Thanks!

MIKE MURRAY

TubeTech LTD.

Instrumentation
and Fluid Control

829 Phillip Street
P.O. Box 968, Sarnia,
Ontario N7T 7K3
Tel: (519) 344-5271

**ALLTEMP
SENSORS**

**BAILEY
FISCHER
PORTER**

Autoclave
Engineers

INTERTEC

ARJAY

ASCO

Bailey

Parker
Fluid Connectors

TLV

Customer Service is our best product !



WESTBURN LYTLE



**INDUSTRIAL PRODUCTS DIVISION
SARNIA**

- | | |
|-------------------|--|
| A.S.I. | – Multipoint Level Indicators |
| ASCO | – Solenoid Valves, Pressure and Temperature Switches |
| CASH-ACME | – Reducing and Regulating Valves |
| CLIF MOCK | – Liquid and Gas sampling systems, Liquid P.D. meters |
| DOPAK | – Process Samplers |
| EL-O-MATIC | – Actuators, Positioners, Switches, etc. for Quarter Turn Valves |
| E.V.I. | – Engineered Ball Valves for Special Applications |
| GGOSCO | – Needle Valves |
| KAMMER | – Control Valves for Special Applications |
| PROMAG | – Magnetic Liquid Level Indicators & Continuous Level Transmitters |
| TRICENTRIC | – Metal Seated, Class VI, Butterfly Valves |
| VELAN | – Ball Valves - Cryogenic, Metal Seated, Resilient Seated |

1231 Confederation Street , Sarnia, N7S 4M7
Telephone: (519) 336-0014 Fax: (519) 336-7396



Elsag Bailey

Elsag Bailey (Canada) Inc.

134 Norfinch Drive, Toronto, Ontario M3N 1X7

Telephone: (416) 667-9800 / 1-800-663-7097/Fax: (416) 667-9816

Bailey

TRANSMITTERS, RECORDERS, CONTROLLERS & ANALYZERS
For temperature, flow, level, combustion & emissions

**BAILEY
FISCHER
PORTER**

**MAGNETIC FLOWMETERS, MASS FLOWMETERS, ROTAMETERS,
LEVEL INDICATORS, VORTEX METERS, FLUMES, ULTRASONIC
LEVEL/FLOW & CONTROLLERS**

TBI-Bailey

SENSORS, INDICATOR/ANALYZERS & CONTROLLERS
For pH, ORP and conductivity

PRODUCTS REPRESENTED EXCLUSIVELY BY:

TubeTech Ltd.
829 Phillip Street
P.O. Box 968
Sarnia, ON N7T 7K3

Tel: (519) 344-5271
Fax: (519) 344-8334

U&I SUPPLY

UTILITY & INDUSTRIAL SUPPLY LTD.

645 KeddcO St., P.O. Box 999

Sarnia, Ontario N7T 7K6

Phone: (519) 344-3614 Fax: (519) 344-3181

Chemtrol
A DIVISION OF NIBCO INC.

Kaynar, PVC, CPVC, Ball,
Check, Butterfly,
Valves & Actuators



IMPERIAL EASTMAN

Tube Fittings, Including
Hi-Seal, Braze-Seal, Hi Duty,
and Poly-Flo, Tubing & Hose

**KEDDCO
MFG. LTD.**

Orifice Plates, Spectacle
Blinds, & Strainers

ROPER PUMP

Fluid Detection Control and
Metering Pumps



A.C. Invertors, D.C.
Controllers, Softs Starts

**Worcester
Controls**

Advanced Ball Control
Valves, Electrical &
Pneumatic Actuators,
Controllers, Positioners, &
Fugitive Emission Valves

Sarnia Section Executive 1995-96

| Position | Incumbent | Phone | Fax |
|--------------------------|---------------------|-------------------|------------|
| | | (Area Code 519) | |
| President | Mike Murray | 383-1709 | 339-0481 |
| Vice-President | Randy Dennie | 337-8251 ext.5871 | 339-7723 |
| Treasurer | Brian Smith | 332-1212 ext.7920 | 339-7301 |
| Executive Assistant | Dave Gooch | 337-1350 | 337-3105 |
| Newsletter Chairman | Bob Devine | 332-2300 | 332-6640 |
| Newsletter Editor | Dick Bouterse | 862-1445 ext.5450 | 481-3130 |
| Newsletter Assistant | Frank Baugh | 337-8251 ext.5879 | 339-7723 |
| Program Chairman | Jennifer Southcombe | 337-2301 ext.480 | 332-3309 |
| Program Assistant | Bob Kelly | 481-2726 | 862-1932 |
| Honors & Awards Chairman | Jeff Talbot | 344-5271 | 344-8334 |
| Membership Chairman | John Baker | 339-9701 | 339-9702 |
| Membership Assistant | Bill Arundell | 337-7416 | 336-0998 |
| Student Section Liason | Mike Grey | 542-7751 ext.308 | 542-6667 |
| Standards and Practices | Don Murch | 431-1916 | 431-1127 |
| Past President | Larry Corbett | 339-9701 | 339-9702 |

OVANTUM SALES INC.

(ONTARIO VALVE AND INSTRUMENTATION)

6 Guildford Court
London, Ontario N6J 3Y1
Phone: (519) 474-3044
Fax: (519) 471-7640

SOUTHWESTERN ONTARIO REPRESENTATIVES FOR

- | | |
|-------------------------------|--|
| RAMSEY CANADA | - Belt & Track Scales, Weigh Feeders, Metal Detectors, Solids Samplers |
| KISTLER-MORSE | - Load Cells, Strain Gauges, Ultrasonic Level Instruments |
| QUALITY CONTROL EQUIPMENT CO. | - Solid, Slurry & Liquid Samplers |
| ACTION INSTRUMENTS | - 2 & 4 Wire Signal Conditioners and Alarms |
| BARBER ENGINEERING | - Orifice Plates, Meter Runs, Venturis & Nozzles |
| B/W CONTROLS | - Tank Gauging Systems |
| FUJIKIN of AMERICA INC. | - Ceramic Ball & Control Valves |
| GH FLOW AUTOMATION | - Turbine Meters & Flow Computers |
| MADISON CO. | - Liquid Level Switches |
| PRECISION DIGITAL CORP. | - Panel Meters, Annunciator & Scanner |

***Local Reps. for MARSH INSTRUMENTATION
ie. NORAC Scales, SAMSON Control Valves and
M & Y VALVE SERVICES.***

spirax /sarco

If it is a Question of...

***HEAT TRANSFER, FLUID CONDITIONING, MONITORING, METER-
ING AND/OR CONTROL, THEN SPIRAX SARCO CANADA CAN HELP
YOU FIND THE ANSWER!***

***PHONE FOR YOUR GUIDE TO IMPROVING PLANT PROCESS AND
ENERGY EFFICIENCY.***

(905) 660-5510 Ask for Carol

ARMATEK CONTROLS LIMITED

PROCESS INSTRUMENTS SALES AND SERVICE

ARMATEK - Instrument Accessories
CELLEX - Instrument Heating Specialists
DEHAVAN - Level Instrumentation
FLUID DATA/AMSCOR - Analytical Instruments
GREAT PLAINS INDUSTRIES - Digital Flow Meters
ITT BARTON - Industrial Instruments

MESA/NUSONICS - Ultrasonic Instruments
MOORE INDUSTRIES - Electronic Modules
PHASE DYNAMICS - Microwave Process Analyzers
ROHRBACK/COSASCO - Corrosion Monitoring
TELEDYNE ANALYTICAL - Gas Analyzers
THERMO ELECTRIC - Temperature Specialists

Tel: (519) 332-0100 Fax: (519) 332-8821

Serving the Process Industries since 1966

LISLE-METRIX LTD.

49 Sheffield Street, Toronto Ontario M6M 3E5
Telephone: (416) 249-9151 Fax: (416) 249-2952

WATER QUALITY ANALYZERS - pH, ORP, Conductivity,
Dissolved Oxygen, Turbidity

FLOW METERS - Area, Doppler, Flume, Impeller, Mass,
Nozzle, Thermal, Turbine, Venturi

PROCESS PHOTOMETERS - Dust, Oil-In-Water,
Ozone, Turbidity, Colour, Nitrate, Dissolved Organics,
Solvents in Effluent, Water in Organic Solvents

LEVEL SENSORS - Conductance, Magnetic Coupled

I.S. BARRIERS, ISOLATORS, LOGIC CONTROLS

PROXIMITY SWITCHES - Capacitive, Inductive, Optical,
Ultrasonic, Magnetic, Photoelectric, Fibre Optic

PANEL INDICATORS & CONTROLLERS



HARDIE INDUSTRIAL SERVICES INC.

Representing

GGOSCO
Custom Ball Valves

KINETROL
Actuators

Instrumentation/Electrical Installations • Process Design • Project Management
Contract Maintenance • Sales & Service

Phone: (519) 649-1433 Fax: (519) 649-6559
London, Ontario



Technology Works!

In Process Measurement Systems



- Ultrasonic Level Measurement



- Belt Scales/Flowmeters



- Stresswave Sensor



- Motion Sensors

Milltronics offers products for non-contacting ultrasonic level measurement for solids and liquids at ranges up to 60 m; single and multi-idler conveyor belt scales for weighing material moving on conveyor belts; dry solids flowmeters for continuous in-line weighing; and process protection equipment including flow/no flow switches and motion sensors.

For more information, Contact: Larry Goheen
P.O. Box 4225, 730 The Kingsway
Peterborough, Ontario K9J 7B1
Tel: (705) 740-7602 Fax: (705) 745-0414

LANGTREE CONTROLS LTD.

P.O. BOX 2326

CHEMWAY BLDG.

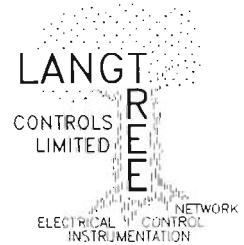
509 SOUTH VIDAL STREET

SARNIA, ON N7T 7S6

PH: (519) 344-6868

FAX: (519) 344-7944

E-MAIL: langtree@sarnia.com



THE "ROOT" TO QUALITY ENGINEERED CONTROLS

ENGINEERING SERVICES

- Project Feasibility Studies
- Project Budget Preparation
- Detailed Project Engineering
- CAD and Drafting Services
- Control Application Programming
- Project Management
- Field Services and Training
- Training Manuals
- Plotting Services (A-E Size)

EXPERIENCE WITH

- Triconex TMR PLC
- Honeywell TDC2000/3000
- Bailey INFI-90
- Foxboro Spectrum/IA
- Fischer & Porter DCI2000
- PLC's - Allen Bradley, Modicon, Honeywell, TI, GE Fanuc
- UPS Systems, Fiber Optics, Field Instrument Specification

ABB...

INSTRUMENTATION INC.

...COMMITTED

TO INNOVATIVE, COST-EFFECTIVE MEASUREMENT SOLUTIONS

TO CONTACT YOUR LOCAL REPRESENTATIVE CALL

TEL:(519) 541-0011 FAX:(519) 541-0012

VANCOUVER - CALGARY - SARNIA - TORONTO - MONTREAL - HALIFAX



INSTRUMENTATION
PRODUCTS

UNIT #1 - 1173 Michener Court

Sarnia, Ontario N7S 5G5

Tel.: (519) 337-2329 - Fax: (519) 336-0998

- ASHCROFT** - Pressure Gauges
- APOLLO** - Ball Valves & Actuators
- BELLOFRAM** - Positioners and Pressure Regulators
- B S & B** - Rupture Discs
- DELPHIAN** - Combustible Gas Monitors
- GALTEK** - Teflon Tube Fittings & Valves
- ITT** - Engineered Valves
- JERGUSON** - Liquid Level Gauges
- JACOBY
TARBOX** - Sight Flow Indicators and Turbidity Meters
- MONITOR
LABS** - Opacity Monitors and Combustion Analyzers
- KOCH** - Static Mixers
- 3P** - Lined Pipe, Fittings and Valves
- PULSAFEEDER** - Metering Pumps
- TBV** - Specialty Ball Valves
- ROSEMOUNT** - Combustion Controls

**PLUS AUTOMATED
BALL AND BUTTERFLY
VALVES**

ALPHA
CONTROLS AND INSTRUMENTATION

Kay-Ray / Sensall
FISHER-ROSEMOUNT

QSDM INC.

3D Instruments, Inc.
Direct Drive Difference

ARI

ALTEK CALIBRATORS

INOR

**KEANE
CONTROLS**

DIANACHART INC.

seltra

KELLER PSI

major

HORIBA

U M

STAHL

SIEMENS

Quality Principals = Quality Products

361 Steelcase Road West, Units 5 & 6
Markham, Ontario, Canada L3R 3V8

Tel: (905) 477-2133

TOLL FREE (800) 567-8686

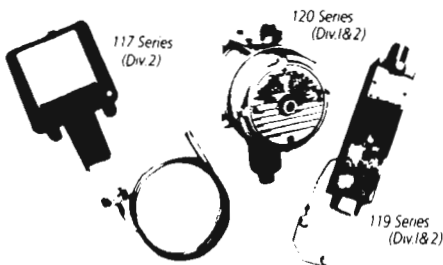
Fax: (905) 477-4219

New ISA members
have a lot to offer.



Make a point of introducing
yourself at the next meeting.

A COMPLETE LINE OF TEMPERATURE AND
PRESSURE/VACUUM CONTROLS FOR HAZARDOUS AREAS



CSA APPROVED
MANUFACTURED IN CANADA



UNITED ELECTRIC CONTROLS (CANADA) LTD.

5320 BRADCO BLVD

MISSISSAUGA, ONTARIO L4W 1G7

TELEPHONE 905-625-5082

FAX 905-625-5709



**Unleash The
Unlimited Resources
Of The Cat.**

It's easy to receive a free copy of Transcat's new comprehensive,
full-colour 1996 catalog of Test, Measurement and
Calibration Instruments. Just call us at **800-268-1470**.

TRANSCAT
The Unlimited Resource

SEMAC POWER & CONTROLS LTD.

519-336-5986

"SEMAC"

PLC CONTROL SYSTEMS
VARIABLE SPEED DRIVERS
INTERFACE SYSTEMS
ANALYZER SYSTEMS
COMPLETE SHELTERS
EMISSION MONITORING
SYSTEMS / INSTALLATIONS
INSTRUMENT / ELECTRICAL
INSTALLATIONS
QUALITY CONTROL
THROUGHOUT ALL PHASES
OF PROJECTS



CSA / UL CERTIFIED

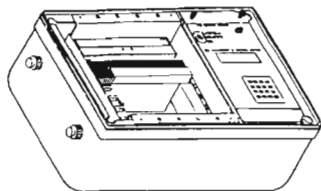
525 VIDAL ST. SOUTH
SARNIA, ONTARIO
N7T 2V7

PHONE: (519) 336-5986
FAX: (519) 336-4490

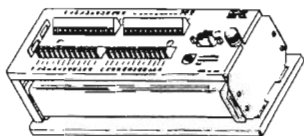


Campbell Scientific (Canada) Corp.

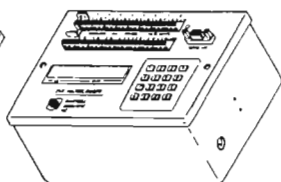
Data Acquisition



CR7



CR10



21X

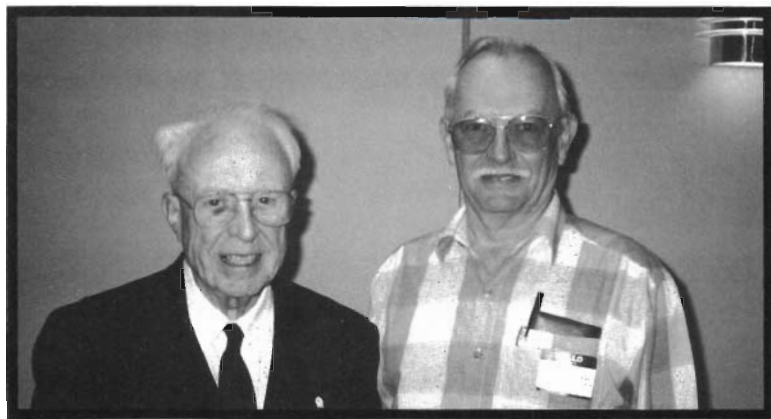
MEASURING: Temp Probes. Load Cells. Relays. Flow Meters. 4-20mA Transducers
Strain Gauges. Analog. Digital. Pressure Transducers. Meteorological Sensors

On Site Demonstrations Available

Est. 1978

192 st clair str. chatham, ontario N7L 3J6 (519) 354 7356 fax (519) 354 1558
11564 149 str. edmonton, alberta T5M 1W7 (403) 454 2505 fax (403) 454 2655

ISA Perspectives



Left:
Ken Goldring

Right:
Roy Pettit

Another
great Dinner
Meeting at
the Shrine
Club!

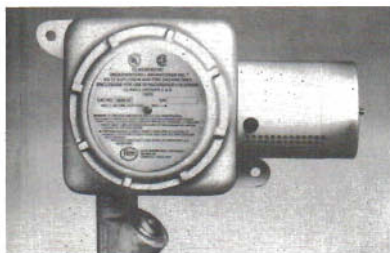
Left: Al



Left:
Mike Paulley

Right:
John Lewis

Astro Infrared Hydrocarbon Detection



*Don't
Take
Chances*

*Take
Control*

A unique infrared detection technique will ensure reliable measurement, automatic self-checking, and provide a unit unaffected by high humidity, poisoning agents or high gas concentration environments.

FOR INFORMATION CONTACT:

Astro International Corporation
100 Park Avenue
League City, Texas 77573
Tel: (713) 332-2484
Fax: (713) 544-6795

Detech Industries
P.O. Box 510, 1677 Johnston Road
Bothwell, Ontario N0P 1C0
Tel: (519) 695-5047
Fax: (519) 695-2269



WIKA INSTRUMENTS CANADA LTD.

1535 MEYERSIDE DR., UNIT 6
MISSISSAUGA, ONTARIO L5T 1M9
TEL.: (905) 795-1677

PRESSURE GAUGES – CHEMICAL SEALS – THERMOMETERS
PRESSURE TRANSMITTERS – TRANSDUCERS
– DIGITAL INDICATORS –

REPRESENTED BY SHARP VALVE 1-800-263-5244



P.O. Box 386
Sarnia, Ontario N7T 7J2

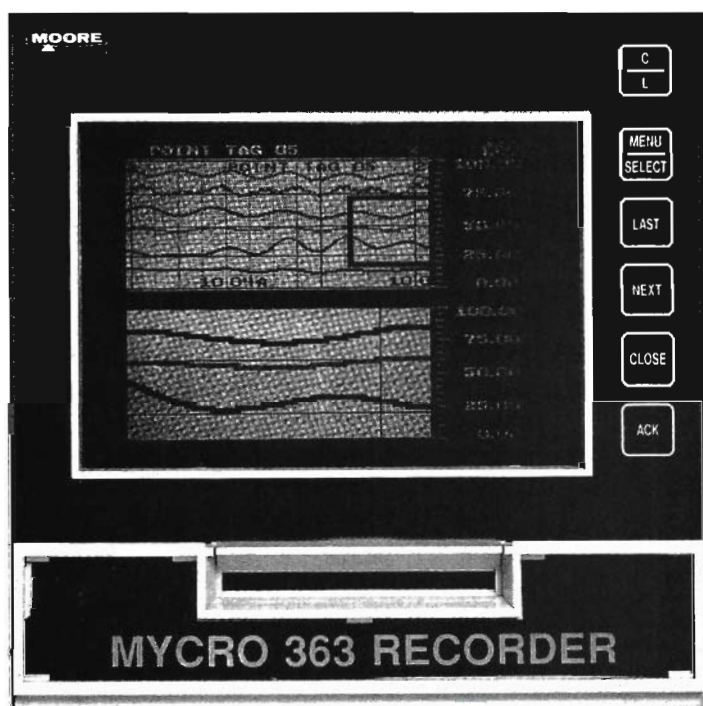
CHUCK DOUGLAS
JOE LAWLESS
ED VANDEN EYNDE
RANDY HADDON
BRIAN DAVIDSON

Phone: (519) 336-3453
Fax: (519) 336-1537

AVOID THE PAPER CHASE

Look into Moore's new Model 363
Paperless Recorder, with colour LCD Display.

High in Flexibility,
Low in Maintenance & Price.

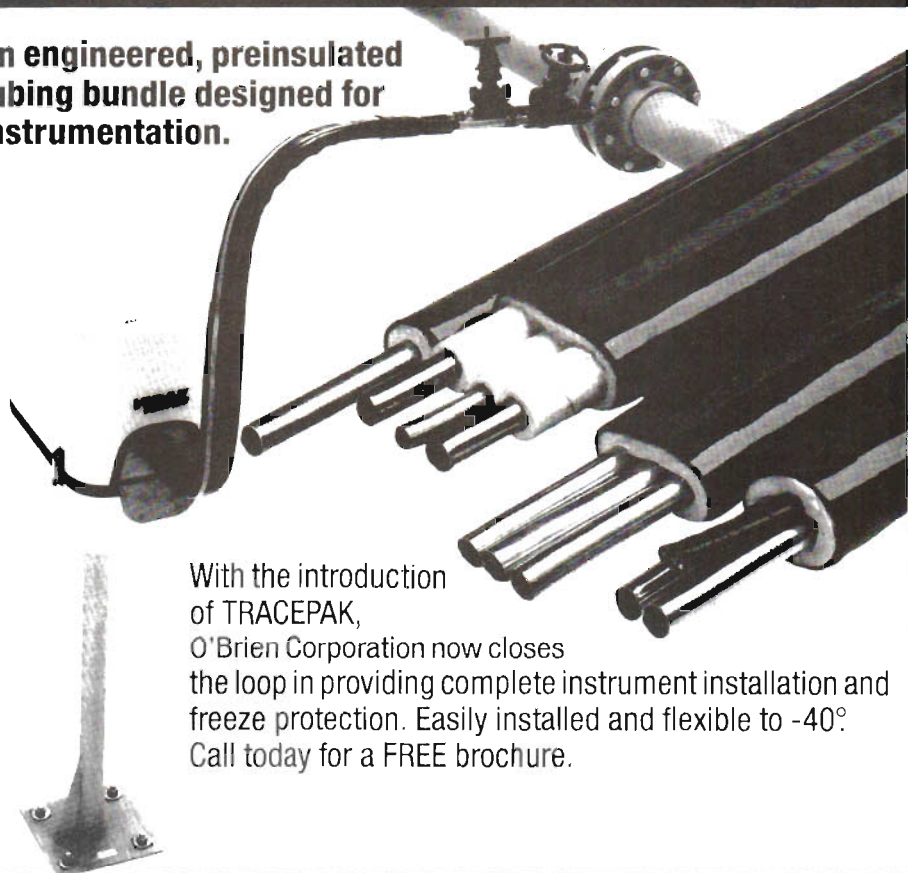


Moore Products Co. (Canada) Inc.
P.O. Box 370, Brampton, Ontario L6V 2L3
Tel: (905) 457-9638 Fax: (905) 457-4182



TRACEPAK[®]

**An engineered, preinsulated
tubing bundle designed for
instrumentation.**



With the introduction
of TRACEPAK,
O'Brien Corporation now closes
the loop in providing complete instrument installation and
freeze protection. Easily installed and flexible to -40°.
Call today for a FREE brochure.



CB ENGINEERING [EASTERN] LTD.

DAVID GOOCH, P. Eng.
Sales Engineer

P.O. Box 2523
Sarnia, Ontario, Canada N7T 7H9
519-337-1350 Fax: 519-337-3105
1-800-99-CBENG (1-800-992-2364)

ISA Perspectives



Left:
Rob Collins

Right:
Brian
Davidson



Another great presentation!!!

Special thanks to Eric Betholot of Elsag Bailey, Toronto, for his presentation about Ultra Violet Disinfection in Waste Water Treatment Applications.



Left:
Mike Murray

Right:
Pete Ferguson



CENTRE FOR ADVANCED PROCESS TECHNOLOGY



INSTRUMENT SOCIETY OF AMERICA

Training Materials Distribution Centre

➤ **YOUR PROCESS MEASUREMENT & CONTROL CONNECTION FOR:**

- APPLICATION DEVELOPMENT
- TRAINING DEVELOPMENT AND TRAINING
- COURSES, WORKSHOPS AND SEMINARS
- INVOLVE® EDUCATIONAL PROGRAMS

➤ **AND YOUR COMPLETE RESOURCE CENTRE FOR ALL ISA EDUCATIONAL AND TRAINING MATERIALS INCLUDING**

- TEXT BOOKS and VIDEOTAPES
- INVOLVE® and SOFTWARE
- CONFERENCE PROCEEDINGS
- STANDARDS

FOR MORE INFORMATION AND A FREE CATALOGUE OF ALL CAPT SERVICES AND ISA MATERIALS PLEASE CONTACT:

SANDRA MORRISON
CENTRE FOR ADVANCED PROCESS TECHNOLOGY
P.O. BOX 969, SARNIA, ON N7T 7K4
PHONE: 519-542-5033 FAX: 519-542-1017



YOUR ISA MEMBER BENEFITS

You receive many benefits as an ISA member. In addition to developing valuable contacts with others in the instrumentation field through **Section Activities**, ISA offers . . .

Division Activities—An opportunity to join any of 24 technical interest divisions that keep you current in your particular field.

Directory of Instrumentation—A free annual guide of products, manufacturers, services, trade names, sales offices and more.

Standards and Practices—International industry guidelines that help improve performance and communication, reduce costs and promote safety. Free as issued.

Leadership Development—Educational programs and materials designed to enhance your leadership skills in preparation for Society and career advancement.

Instrumentation Publications—Over 400 publications and educational aids available at member discounts.

INTECH—The leading international journal of instrumentation that keeps you up to date every month—free.

Inside ISA—A free publication supplement that highlights member activities.

Technical Training Courses—An opportunity to update your technical skills at member discounted rates.

Symposia, Conferences, Exhibits—Forums that allow you to discuss practical applications with engineers, scientists, educators, researchers and technicians.

Peer Recognition—ISA honors and awards that acknowledge outstanding achievements.

Resume Referral Service—Free employment assistance to unemployed members.

Optional MasterCard, Insurance—An opportunity to get a MasterCard or sign up for supplemental insurance at low group rates.

FOR MORE INFORMATION ON ISA MEMBER BENEFITS, CONTACT
Instrument Society of America

67 Alexander Drive, PO Box 12277 • Research Triangle Park, NC 27709 • (919) 549-8411



Division of 608777 Ontario Ltd.
6 Lansing Square, Suite 120
North York, Ontario M2J 1T5

Phone: (416) 499-8904
Fax: (416) 499-5381



ACTION INSTRUMENTS

Signal Conditioners - Ultra SlimPak - Digital Indicators - Transmitters and
DC-Input Data Collector & Network Manager



CASHCO CANADA, INC.

Pneumatic Control Valves - Sanitary Valves - TFE Lined Valves - Self
Contained & Back Pressure Regulator Valves



CONTROLAIR INC.

Precision Pneumatic and Electropneumatic Controls I/P, E/P Transducers -
Precision Air Pressure & Instrument Air Filter Regulators - Diaphragm Air
Cylinders - Custom Pneumatic Devices



DATA INDUSTRIAL CORPORATION

Flow Sensors - Digital Flow Monitors - Analog Signal Transmitter - Pulse
Output Transmitter - Analog Flow Transmitter - Local Adjustable Relay
Control - BUT Meter - Wind Speed Monitor

J.M. CANTY, INC.

J.M. CANTY, INC.

Process Vessel Fiber Optic Lighting - Hydro Tested Safety Sightglasses -
Video Vision Systems & The Vector System Microprocessor-Based Control
System



JORDAN CONTROLS, INC.

Rotary - Linear and 90° Electric Actuators - Position-Transmitter/Encoder/
Resolvers & Manual Control Stations



PANALARM DIV. - AMETEK INC.

High Speed Event Management Network - Annunciators - Graphic Display -
Lamp Cabinets - Analog Monitoring



PRECISION DIGITAL

4 Point 1/8 DIN Annunciator - Microprocessor Based Digital Panel Meters -
Panelmux 8 Channel Scanner



UNITED ELECTRIC CONTROLS (CANADA) LTD.

Electromechanical Products - Pressure Transmitter - Pressure Switches -
Temperature Switches - Temperature Controllers & Chart Recorders

ISO 9002
Registered

NORTHERN ABCOR

**PROCESS EQUIPMENT
& CONTROLS**

in Sarnia

Represents...

- | | |
|--|--|
| <input type="checkbox"/> ASCO/JOUCOMATIC Solenoids, Filter Regulators, Indicators | <input type="checkbox"/> RAYTEK Fixed & Portable Non-contact temperature monitoring and control |
| <input type="checkbox"/> CONTROLAIR INC. Air Regulators, I/P, E/P Transducers, Volume Boosters, Filter Regulators, Diaphragm Cylinders, Custom Devices | <input type="checkbox"/> SCALE WATCHER Pipe Scale Elimination & Prevention Systems |
| <input type="checkbox"/> CONTROLS INTERNATIONAL INC. Electric & Pneumatic Type 'K' Damper Drives | <input type="checkbox"/> TESS-COM, INC. Trace Gas Analyzer For Process, Environmental, Toxic Gas, and Source Gas |
| <input type="checkbox"/> INTERTEC FRP Instrument Enclosures/Heaters | <input type="checkbox"/> TURBO AC&DC Pulsed Magnetic Flowmeters, Flow Sensors, Rotameters, Indicators |
| <input type="checkbox"/> IOTRON Integrated Electrochemical Sensors for pH, ORP, Ion Selective Measurement | <input type="checkbox"/> UNITHERM Insulated & Electric Heat Traced Tubing |
| <input type="checkbox"/> PARTLOW Circular & Strip Chart Recorders | <input type="checkbox"/> WIKA Pressure Gauges, Thermometers, Diaphragm Seals |
| <input type="checkbox"/> PYROMATION Thermocouples, RTD's, Extension Wire, Temperature Transmitters & Controllers | <input type="checkbox"/> XEBEC Air Dryers, Coalescing, Pre & After Filters |
| | <input type="checkbox"/> ABCOR ACCESSORIES Thermowells, Protection Tubes, Flush Rings, Gauge Siphons, Diaphragm Seals, Pitot Tubes |

Toll Free Phone

1-800-547-4443

Toll Free Fax

1-800-552-3339

Cellular Phone

1-519-332-9372

Michael Spearman

Regional Sales Manager

635 SCOTT ROAD • SARNIA, ON • N7T 7H5

FAX BACK YOUR LITERATURE REQUEST

Instrument Society of America

MEMBER RECORD CHANGE

This form is designed to facilitate your request for changes in your member record. In order to stay in touch with you, ISA needs to know when you move or change jobs. Also, ISA would like to upgrade your member status if you qualify.

Name _____ (Last) _____ (First) _____ (Middle)
ISA Member Number: _____ Day-time Phone Number: _____

Check all changes that you are requesting:

- ☐ Change my address, phone number and/or company (Complete Part 1)
☐ Change my section affiliation (Complete Part 2)
☐ Apply for Life Member/Life Fellow Status (Complete Part 3)
☐ Apply for Senior Member Status

PART 1: MOVING?

PLEASE CHANGE MY ADDRESS, COMPANY NAME AND/OR PHONE NUMBER:

Preferred
Mailing
Address

☐ Home

☐ Company

Please provide your address exactly as you wish it to appear on our official records.

Preferred Mailing Address:

Street Address: _____

P.O. Box: _____

City: _____

State/Province: _____

Country: _____

Postal Code: _____

Also provide the following information:

Company Name: _____

Company Telex: _____

PART 2: CHANGING SECTIONS?

PLEASE TRANSFER ME:

From _____ Section To _____ Section

PART 3: APPLYING FOR LIFE MEMBER/LIFE FELLOW STATUS?

PLEASE CHANGE MY STATUS TO LIFE MEMBER/LIFE FELLOW: (You must meet both qualifications below.)

☐ I have retired from full-time employment.

☐ I have been a regular Member, Senior Member, Fellow or Honorary Member for twenty (20) or more years. (Years as an Associate or Student member do not count toward the 20-year requirement).

_____ Date joined ISA (Month & Year)

Signature _____

Date _____

RETURN TO: Membership Services
Instrument Society of America
67 Alexander Drive P.O. Box 12277
Research Triangle Park, NC 27709



Instrument Society of America

LAMBTON COLLEGE STUDENT SECTION

The first ISA student section general meeting for the new year was held on the 23rd of January. At the general meeting new Executive Members were elected for this term at the College. The positions were filled as follows:

President Tom Beaton (3rd Year)
Vice President of Activities Jonathan Pickard (3rd Year)
Secretary / Treasurer Steve Barraclough (3rd Year)
Newsletter Editor Jonathan Pickard (3rd Year)
Kates Report Dave Pettit (3rd Year)
3rd Year Representative Jamie Coleman (3rd Year)
2nd Year Representative Joe Steele (2nd Year)
1st Year Representative Mike Emery (1st Year)

During our first general meeting we discussed further the benefits of being part of the ISA organization in today's marketplace. Also we talked about the funds necessary for a Student Team to travel and compete in the ISA'96 Student Competition in Chicago. Several ideas were discussed, and will be finalized during an Executive Meeting later on in the term. Also the benefits of a technical field trip for the student section were discussed. We were able to arrange a tour of the Bruce Nuclear Powerplant, which will occur on Tuesday, March 5, 1996, during our spring break. I would like to thank the ISA section for its support, financially. It's covering the transportation for the day. Thank you.

Just a word to all of the potential employers out there - the students of the Instrumentation and Control here at Lambton College will be looking for co-op placements from May until August and May throughout December, this year. You would be surprised what a student would be willing to do for experience these days. Thank you.

Finally, a word to all of the Instrumentation students at the College. The ISA would really appreciate your participation during Engineering Week in March. For further information on this, please contact Mike Grey.

Well till next time, remember "If the women don't find you handsome at least they will find you handy", RG.

Jonathan Pickard
February 1996

LAMBTON COLLEGE

1457 London Road, P.O. Box 969, Sarnia, Ontario N7T 7K4
Telephone: (519) 542-7751 Fax: (519) 542-6667

"Written on a Roll Chart"

The Legacy

Scene II

A dimly lit area of an industrial building. In the background, a long row of compressors. Above, a myriad of pipe and conduit. Hanging like jungle vines are numerous chains for operating the many valves. Surmounting all is the overhead crane, straddling the building and seeming to sit in continuous judgement of the machines below; its massive, pendant hooks waiting to snatch up some offender and spirit him struggling to some more suitable place.

Foreground, two figures stand in front of some cupboards, or closets, whose doors are secured by an imposing padlock of some ancient make. One, a youth of attractive, energetic, appearance. The other, much older and rather nondescript, fumbles through many pockets and eventually unearths a large key.

GRAYBEARD "Good youth, this day is very suitable
To introduce to you a little more
The secrets of our trade.
Behind these oaken doors, this goodly lock,
Is evidence I've gathered through the years,
Equipment, tools, and sundry learned tomes
Which I bequeath to you, along with this advice,
Each item has its lesson, heed them well,
And you'll keep skating on the thinnest ice."

Here Graybeard opens the padlock with a distinct grating sound, and flings open the doors, displaying a dark cluttered interior.

GRAYBEARD "Behold the debris of a long career!
Intrinsically these things must rank quite low,
But paltry as they are, the sight of them
Doth bring a trace of moisture to these eyes.
Examine what you will, if anything
Within these shelves beseems obscure a mite
Pray ask, and I will tell thee, willingly."

YOUTH "Indeed, 'tis not a stimulating sight.
More like the window of some broker's shop
Long since gone bankrupt. His musty stock remains
The muted proof of pledges unredeemed,
Each article too poor to tempt a thief.
But here is something which I fail to see
Has any bearing on our type of work.
A large black cloak of ample roominess
And sewn into the corners, quite secure,
Are horseshoe magnets of familiar shape."

GRAYBEARD "The public dearly loves to watch our work,
And as we make adjustments at the board,

(Continued on Page 34)

LOG ON TO THE WORLD OF MEASUREMENT AND CONTROL

ISA ONLINE Now Available. Try It Today!

- Network with peers **WORLDWIDE.**
- Get answers to questions.
- Participate in forums.
- Find products and services to meet your needs...all from your keyboard.

ISA moves onto the information superhighway with on-line services with an exciting new communication channel - **ISA ONLINE**. Expand your knowledge and get to know your peers as you participate in technical forums. Build your own "network" through Internet e-mail. Find the training you need to stay competitive. Read the latest news for measurement and control by accessing *INTECH*, *Industrial Computing*, or *Motion Control* on-line magazines.

Find the new arenas for discussion in our calendar of industry events and meetings.

And there's much more.

**Dial in Today:
(412) WORLDISA**

ISA Online Connection Information
Telephone 412/967-5347
300-19200 Baud supported
8 bits, no parity, 1 stop bit
VT100, ANSI, RipScript terminal support
or Telnet to isa.industry.net



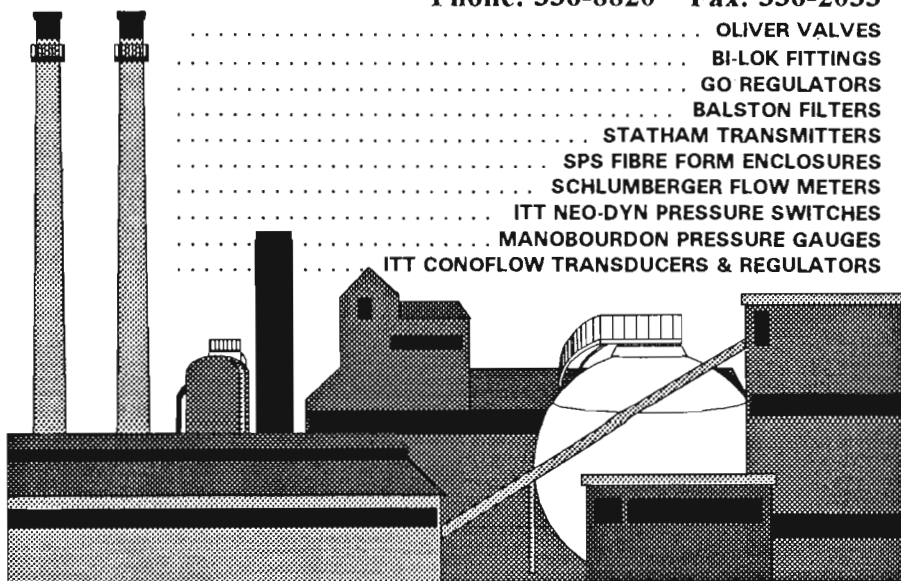
The International
Society for
Measurement
& Control

Need help? Call ANN (412) 967-3500 and ask for ISA Online Tech Support.

SARNIA PIPING SPECIALTIES LTD.,

765 EVETT ST. P.O. Box 2018, Sarnia, Ontario. N7T 7L5

Phone: 336-8820 Fax: 336-2033



..... OLIVER VALVES

..... BI-LOK FITTINGS

..... GO REGULATORS

..... BALSTON FILTERS

..... STATHAM TRANSMITTERS

..... SPS FIBRE FORM ENCLOSURES

..... SCHLUMBERGER FLOW METERS

..... ITT NEO-DYN PRESSURE SWITCHES

..... MANOUBOURDON PRESSURE GAUGES

..... ITT CONOFLOW TRANSDUCERS & REGULATORS

CONTRO VALVE INC. SERVICE & REPAIR CENTER

now handles all your
Control Valve Repair Needs

Contro Valve Inc. is now your exclusive Dresser authorized full service Marc® Repair Center for all of your valve repair needs.



MARC Program - Masoneilan Authorized Repair Center

- Complete in-house or on-site repair or overhaul of all control valves
- Field Diagnostic Testing Unit for in-line control valve analysis
- 24 hour, 7 days a week service



COMING SOON GTC Program - Green Tag Center

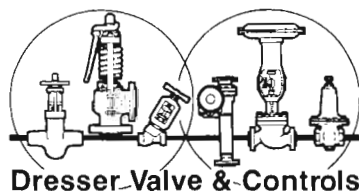
- Complete in-house or on-site repair for all pressure relief valves

Contro Valve is your source for Dresser's Masoneilan®, Consolidated®, Hancock®, Dewrance® and Nilcor® valves and instrumentation.



CONTRO VALVE INC

907 Michigan Avenue, Pt. Edward, Ontario N7V 1H2
Tel.: (519) 344-4300 Fax: (519) 344-0042



(Continued from Page 31)

They oftentimes stand and breath upon our necks.
These magnets hold the cloak well in place,
While it protects you from the gimlet gaze
As does the hood of a photographer.
Work carried on beneath these goodly folds
Is truly of a beneficial sort,
For it preserves that air of mystery
So useful to the bride. I must remark
That underneath this thing, it's rather dark."

YOUTH

"And this, with long and rounded hickory shaft,
Surmounted by a ponderous hardwood block.
It bears distinct resemblance to the type
Of maul, so well beloved by the men
Who swinging lusty in the early morn
Drive home the circus tent pegs. Of what avail
Is this device in our sedate profession?"

GRAYBEARD

"There is a sort of men who constantly
Uneasy prowl before the panelboard,
And, as they gaze in gloomy worriment,
At our good friends the faithful instruments,
They pause and deal them sundry taps and blows,
As if percussion might assist their work.
And if my heartfelt "Please!" does not suffice
To turn them from their rapping, banging way,
I take this frightful cudgel in my grasp
And with one swing induce the light of day.
Percussion has its place in Krupa's band,
But isn't needed here, please understand."

YOUTH

"And here, a mammoth casting doth appear
Beyond the power of any mortal man to lift.
It squats immovable upon the floor,
Impervious to time and element.
If this is part and parcel of our work,
I must decline to have to deal with it.
Its ugly weight would strain a team of mules."

GRAYBEARD

"Look well and thorough at this instrument.
It is the product of another age
Resembling nothing that we see today.
And yet, it was a most prolific sire
Of all force balance meters - 'twas the first.
Its numerous offspring throng throughout the land.
The man who built it we deem a hero,
But like the later models, it won't zero."

YOUTH

"This book with many dog-eared, tattered leaves,
Well thumbed and likewise scrutinized.
Mayhap a log? A list of instruments?
Some drawings, plans, or wiring diagrams?"

(Continued on Page 38)

Autotech
BJ Software
Balluff
Barber Colman
Danfoss
Dwyer
Dynapar
Eagle Signal
Electromatic



ISO 9002 - 1994
Davis Controls
LIMITED

TEL (905) 829-2000
FAX (905) 829-2630
Internet daviscontrols.on.ca
London, Ont Tel/Fax (519) 641-8953

Emco
Hitachi
Hycal
Klinger
Magnetrol
Mercoid
Mitsubishi
Veeder-Root
Warrick

CANTECH

CANTECH CONTROLS

DIV. OF CANTECH CORPORATION

"Serving industry with dependable measurement and control equipment"

Sarnia Office and Warehouse

Phone - (519) 332-6162
Fax - (519) 332-3944

WOOD - Flow, Level & Pressure Transmitters

DWYER - Gauges, Level, Pressure, Etc.

F.W. MURPHY - Level, Vibration, Temperature & pressure Switch Gauges

MICON - Microprocessor Based Controller & Control Systems

SKINNER - Solenoid Valves, Spool Valves

STRAHMAN - Drain & Simple Valves, Cleaning Stations

DEVAR - Signal Conditioning, Temperature

G.H. FLOW - Turbine Flow Meters

OGONTZ - Temperature Control Valves, Steam Traps

CANTECH SYSTEMS - Heat Tracing Control

PENNY & GILES - CRT Based Recorders & Indicators

EATON IDT - Man Machine Interface and Industrial Computers

ANDERSON GREENWOOD - Instrument Manifolds, Gauge & Hand Valves, Spring Loaded & Pilot Operated Relief Valves

TRANSECTOR SYSTEMS - Transient Surge Protection Equipment

CHECK POINT SYSTEMS - Chemical Injection Pumps

INTEPCO - Temperature Sensors, Transmitters, Thermowells

NEOTRONICS - Confined Spaced Monitors, Fixed Systems

SCIENTIFIC LININGS & COATINGS - Weather Caps for Relief Valves

CEMCO - Level Controls, Check Valves, Dump Valves

VERMEER ENGINEERING

A Division of Comteq Instruments

178 Main Street, Unionville, Ontario L3R 2G9
Telephone: (905) 940-0260 • Fax: (905) 940-0304

- Signal Conditioners, 7 year Warranty
- O₂ Analyzers, Process and Combustion
- Combustion Efficiency Analyzers, O₂-CO
Portable and In-Situ.
- Analyzers for Petro-Chem Applications
- CO, CO₂, H₂, N₂, SO₂, HCl, NO, NO_x, H₂O, HF

- SCR Power Pak and Control
- pH and Conductivity Measurement and Control
- Toxic Gas Monitors
- Water Quality Analyzers
- Gas Chromatographs
- H₂S Process Analyzers
- Dewpoint and R.H. Sensors

Multi-function wiring devices save space, install faster, service easier.

Multi-function wiring devices from Phoenix Contact are designed to be a compact and cost efficient means of packaging many functions in today's space-efficient control systems — each function is packaged in only 1/4 inch (6.2 mm) width.

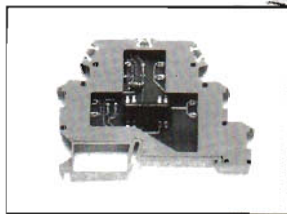
These DIN-rail mounted, modular blocks feature dead-front construction and captive screw-clamp termination for safe, reliable installation — in a snap. Phoenix Contact has the broadest line of multi-function wiring devices and feed-thru terminal blocks in the industry.

The grouping at right is only a sampling of the many application solutions available.

For application assistance, or a copy of our newest catalogue, call or fax.

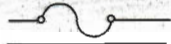
PHOENIX CONTACT LTD.
235 Watline Ave.
Mississauga, Ontario L4Z 1P3
Phone: (905) 890-2820
Fax: (905) 890-0180

1-800-890-2820

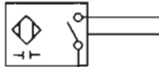


SMD technology allows relay isolation and contact ratings up to 3A in a terminal block only 1/4 inch (6.2 mm) wide.

Better space utilization for fused circuits.



Three or four wire sensors.



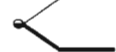
Fuse protection on analog signals.



Circuit testing or troubleshooting.



Thermocouples.



Status indication for current loops.



Relay isolation.



PHOENIX CONTACT

ISO 9002-1987



Cert. #
#002077

MISSISSAUGA, ONTARIO

PHOENIX CONTACT



Axiom Technologies Limited

The merger of elenex Ltd. and London Airpower Ltd.

480 Riverview Drive,
Chatham, Ontario
N7M 5J5

Tel: (519) 351-2621
Fax: (519) 351-0117

OMRON.

Timers, Counters, Relays, Intelligent Panel Meters, Process Controllers, PLC's, Temperature Controllers, Proximity Sensors, Photoelectrics, Laser Measurement Systems, Ultrasonic Sensors, Operator Interface Terminals.



Trabtech Surge Protection, Signal Conditioners, Power Supplies, High Density Terminal Blocks, Custom Interface Modules, Electronic Modules, Varioface Interface Modules.

Klockner MOELLER

Power Distribution and Motor Control Components

(Continued from Page 34)

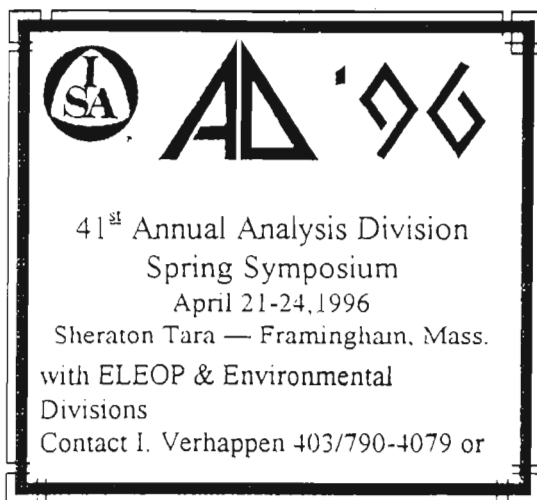
GRAYBEARD "Not so, my friend this volume doth contain
The very soul of our activity.
Which you and I, (between ourselves), admit
Is one of part science, nine parts quackery.
Now instruments have many vagaries,
Some plain, but many more mysterious,
And when these troubles have no ready cure
We must dig deeper than our box of tools.
We must have ready answers which will serve
As explanations for obscure complaints.
They shield us from oppression, and may oft
Divert attention to some other point.
This book contains a lengthy well tried list
Of reasons, alibis, and plausible excuses.
Monotony is a vice I do avoid, thus,
I here record the date when last employed."

YOUTH "You rightly give this book an honoured berth,
Impossible to calculate its worth!"

Graybeard stands with a look of quiet pride while Youth continues to peruse the book. A buzzer sounds raucously. They hurriedly lock the cupboard. An operator runs through the building shouting "H-3! The Torch! The Torch!"

Exit all, at the double. The curtain falls.

(My guess, for what it's worth, is that H-3 is a fired heater, and the torch is required to relight it if it has been shut down.)



FLOVAL

EQUIPMENT LTD. CONCORD ONT.

ANNOUNCES IT'S NEWEST BRANCH OFFICE

SARNIA



**MR. JOHN A. SCHNURR
251 N. VIDAL ST.
SARNIA ONT
N7T 5Y5
TEL. 519 383 1225
FAX 905 669 4905**

ISA Sarnia Section

"Dinner Meeting"

MARCH 25, 1996

Cocktails 6:00 p.m.

Dinner 7:00 p.m.

GUEST SPEAKER

Mr. Malcolm Boyd
County of Lambton

TOPIC

Enhanced 9-1-1
Emergency Service

LOCATION

Lambton Shrine Club
940 Confederation St.
Sarnia

MENU

Dinner Rolls, Salad, Roasted Pork, Hot Pasta, Vegetables,
Assorted Cream Pies

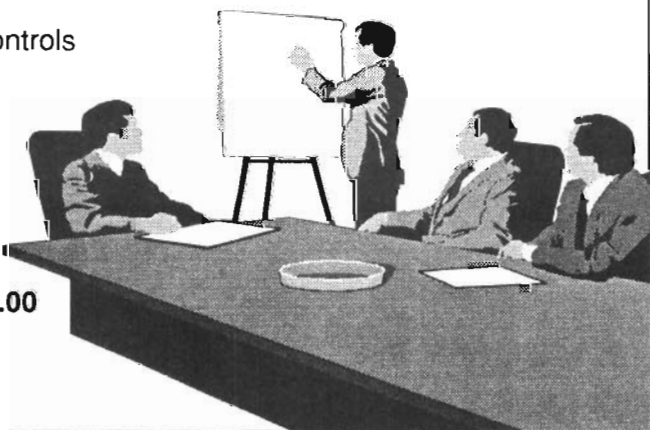
**Please phone in your reservation by
Thursday, March 21, 1996 to either:**

Maureen at Willer Engineering
(519) 336-3006

Gayle at Provincial Controls
(519) 336-7301

MEMBERS \$10.00

NON-MEMBERS \$15.00





The International Society
for Measurement and Control

ISA Sarnia Section January Dinner Meeting Highlights

Our January meeting was held on Monday, January 29, 1996 at the Lambton Shrine Club. A round figure of approximately 50 members/guests enjoyed the evening, which began with a delicious meal of glazed ham and scalloped potatoes.

After dispensing with some general business we introduced our guest speaker. I would personally like to thank Eric Bertholot of Elsas Bailey in Toronto, for coming to speak with us about Ultra Violet Disinfection in Waste Water Treatment Applications, particularly because Eric did not know he was participating in our meeting until the Friday beforehand. Our scheduled speaker, Dr. Elliott Whitby, was called out West on business, and we were fortunate enough that Dr. Whitby was able to arrange for Eric to substitute for us. Eric's presentation was excellent and we certainly did not suffer for the replacement.

This did highlight to me what a precarious position we are in, as Program Committee, to provide adequate coverage for a situation such as this. It would be ideal for the Program Committee to have a reserve list of possible members who might be in a position to be called on at the last minute to make a presentation at our meetings. If anyone feels they could be in a position to stand as a back-up speaker for us, please speak with myself or Bob Kelly. Forewarned is forearmed!

Jennifer Southcombe
1995-1996 Program Chairman

Upcoming Meetings:

May 27, 1996

Awards Dinner

Murder Mystery Evening

Come out and enjoy the fun!!!

Cost: \$15.00 / Member \$20.00 / Non-member

Please Note: Deadline to phone in reservations for Awards Dinner is **EARLY**. Please call reservations in by **THURSDAY, MAY 9, 1996**.

Controls

Equipment (Mississauga) Limited

5160 Explorer Drive, Suite 12, Mississauga, Ontario L4W 4T7
Phone: (905) 624-2275 Fax: (905) 624-1878 Toll Free: 1-800-268-9094



NEW PRODUCTS: ACCUTRON AND WALCHEM!

*"Over 100 Years of Process Control and
Instrumentation Experience to Serve You"*

WALTECH ASSOCIATES

2007 PARKLANE CRESCENT, BURLINGTON, ON. L7M 3J5

PHONE (905) 332-1008 FAX (905) 332-6048

- CMH SOFTWARE. Electrical ladder diagram design software.
- INSTRUMENTATION SOFTWARE INC. ORSPEC™ for flow elements & CVSPEC™ for flow valves.
- WADE ASSOCIATES, INC. PC-ControlLAB™ for WINDOWS™ Continuous, process control loop simulation for training.
- HEM Data Corporation PC-Based Testing, Analysis & Control Snap-Master™ for Microsoft ® Windows™
- PSG INC., UPS (Uninterruptible power supplies) by Best Power.

The Second Annual **ISA SARNIA SECTION GOLF TOURNAMENT**

Date: June 14, 1996

Place: To Be Announced

Cost: To Be Announced



Your Executive wishes to provide a fun day for all our members and potential members with a golf tournament. It will be an open invitational and our objective is to have everyone enjoy themselves whether they happen to be serious or simply a once a year golfer. The tournament will include green fees, dinner and prizes. Start lining up your team partners. More details will be forth coming as we are in the preliminary planning stage. If you have had experience in organizing a golf tournament we would appreciate your help and input. Please call Randy Dennie at 337-8251 extension 5817.



SPEC (Sarnia) Limited

1550 Confederation St.
Sarnia, Ontario N7W 1A3

Tel. (519) 336-2405

Fax (519) 336-1177

Stocking Distributor For:



- Level Controls
- RF/Capacitance
- Vibration Monitoring and Control
- I/P - P/I Controls



- The Heat Tracing Specialists

BROOKS INSTRUMENT

- Rotameters
- Positive Displacement Meters
- Turbine Meters
- Mass Flow Meters
- Inventory Management System



- The Instrument Heating Specialists

CANCOPPAS LIMITED



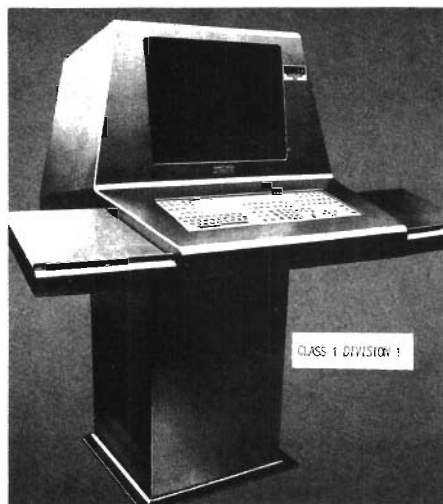
- Epic Waste Water Samplers
- Foxcroft Chlorine Analyzers
- Regal Gas Chlorinators
- Royce Instruments
- MSR - Magmeters

ENVIRONMENTAL
PRODUCTS

- Oil Absorbent Products
- Oil Skimming Devices
- Drums & Accessories
- Permanent Harbour Boom
- Epic Waste Water Samplers
- ADI Pressure/Vacuum Gas Sampling Pumps
- Royce Instruments



- Rupture Disc
- Check Valves
- Line Blinds



CYBER SYSTEMS INC.

TEL. 905-792-6677 FAX. 905-792-7742

PRODUCT LIST

- MTL • Intrinsically Safe Barriers
- A.H. Emery • Hydraulic Load Cell Weighing Systems
- Fuller • Electronic and Pneumatic Liquid Filling Systems
- Hiltcraft • IS Earth Proving Unit • for tanker trucks etc.
- RGS • Intrinsically Safe Valves
- Lorad • Unique, Full-bore Valves and Instrument Isolators
- Expo Safety Systems, Purging and Pressurisation

For Div 1 and Div 2, the Mini-X and Mini-Z -Purge Systems are fully pneumatic in operation, and conform to North American Standards, NFPA 496-1993. They are acceptable to Ontario Hydro, for installation in Ontario.

TYPICAL APPLICATIONS

Computer Monitors & Terminals
Programmable Controllers
19" Rack Apparatus
Panels & Switchgear.

Chart & Data Recorders.
Gas Analysers
Motor Control Centers
Condition & Monitoring.

SENTRY...

*The only name you need to know for
Sample Conditioning Equipment.*

- Sampling and analysis systems for fossil, nuclear and co-gen plants.
- Pre-engineered single point sampling stations.
- World's largest supplier of sample coolers.
- Unique rod in tube pressure reduction devices.
- Packaged cooling water systems.
- Precise temperature control units.
- Spiral Tube Heat Exchangers.



Sentry Equipment Corp.

Phone: 414-567-7256

Fax: 414-567-4523



Fryston Canada Incorporated

7370 Bramalea Road, Suite #30

Mississauga, ON L5S 1N6

Phone: 905-612-0566 or 1-800-387-7503

Fax: 905-612-0575

Complete Water Quality Monitoring Systems

From alkalinity to zinc —

*Hach's direct-reading instruments,
single-dose reagents, clear
instructions, and proven methods
make water testing convenient.*

- **Test Kits.** Over 200 single- and multiple-parameter water testing kits
- **Portable and Laboratory Instruments.** Reliable colorimetric, pH, ISE, and turbidimetric instruments that provide accurate results
- **Process Systems.** Complete on-line systems to monitor turbidity, pH, chloride, hardness, silica and more



Fryston Canada Inc.

7370 Bramalea Road
Suite 30

Mississauga, ON L5S 1N6
Telephone: 905-612-0566

Fax: 905-612-0575

SARNIA SECTION BBS UPDATE

As of Feb. 18/96 the BBS has received over 1125 calls. There have been 427 messages in the Main Board conference. File downloads are over 915 and uploads are 29. There have been eight new callers since the last issue, which brings the total up to 90. Please leave a (C)omment to the sysop, if you have any suggestions about how to make the BBS more useful.

The BBS phone number is (519) 541-0427.

“ISA CAPT NITE”

On Wednesday, February 7th there were over 25 guests for the ISA CAPT nite at The Centre for Advanced Process Control (CAPT). The CAPT staff were introduced and a summary of the centre's history and current operation were presented. A tour followed, which included the ISA Training Materials and Distribution Centre and the laboratories.

The evening included with a live Internet demonstration. The purpose of the demonstration was to show what is on Internet that pertains to the Instrumentation, Measurement and Control field. The Internet addresses are included so you can also look at these sites. Greg Tully began with a description of the CAPT home page (<http://www.lambton.on.ca/capt/capt.html>) and the other linked pages describing ISA Training Materials and course listing. The Internet tour then proceeded to my home page at (<http://www.ebtech.net/~bsmith>). We first went for a surf on Electro-Bytes home page, where the Sarnia and Sarnia Internet Users Group pages can be found.

ISA Online (<http://www.isa.org>) home page had just been reorganised with improved navigation and graphics. This resource is becoming a significant information and educational tool. There are on-line courses also starting to appear. The ISA Directory Online is an easy way to search for products and manufacturers. Standards Committees are using the Internet to conduct business and save ISA the cost of printing and mailing paper standards. Individuals can e-mail messages to the standard committees. There are also pages containing information about ISA Divisions. The Analyser Division has an electronic mail listserver, which copies incoming mail to all subscribers. This is a way to post questions and share technical information.

Industry Net (<http://www.industry.net>) is also a significant technical resource which includes a great variety of industrial technical information. The Online marketplace includes the largest business marketplace on the Internet. Here you'll find the Business Centers of 4000 leading companies, information on 250,000 top suppliers, plus the latest hot new products in industry. There are also Sixteen in-depth online services dedicated to today's professionals. You'll find the best companies, discussion groups and much more in these services that are segmented by market type. Fourteen trade associations and societies have joined with Industry Net in developing these online services to help their members make the most of the world wide web. Your premier link to business and industry on the World Wide Web includes over 6,000 web sites, each classified by type and domain.

The Industrial Computing Society (<http://www.control.com/ics>) home page includes society information and sample article from Industrial Computing Magazine. The Thomas Register is also available online. This is currently a free service used to locate manufacturers and suppliers.

Brian Smith

Internet: bsmith@ebtech.net

MEET THE PEOPLE WHO CAN HELP YOUR CAREER

Open a whole new world and put your career on the fast track.

As a member of ISA, you'll be part of an international network of over 43,000 instrumentation and control professionals - a network for getting ahead, meeting people, exchanging information and keeping up.

ISA membership provides you with resources essential to career advancement. You'll have access to information on the latest equipment and technology through monthly publications and special symposia. You'll have opportunities to exchange solutions to problems and discuss practical applications with engineers, managers, scientists, educators, researchers and technicians. By participating in ISA section and district activities, you'll meet others, close to home, who can offer valuable contacts for career advancement. And, by joining technical divisions in your areas of specialization, you'll learn, first-hand, of technological progress as it occurs.

Getting Ahead Instead Of Just Keeping Up.

Enhance your leadership skills through formal ISA leadership development programs. Update and improve your technical skills through ISA training courses, conducted in our state-of-the-art Training Centre in Raleigh, North Carolina, or at regional locations across the U.S., or even on-site in your plant.

Keep abreast of the latest applications with your free subscription to INTECH® Magazine, and use ISA media products to expand your technology base. As an ISA member, books, videos, training materials, and conferences and exhibitions will be yours at a special member discount.

Influence Your Peers And Enjoy The Recognition You Deserve.

Assume a position of responsibility in your section or district, opening doors to a more influential leadership opportunity. Or, participate in the development of ISA Standards and Practices which are often adopted by industry around the world. Your accomplishments could achieve recognition through ISA honors and awards programs and, at the same time, effect progress for your company and your career.

Join Now And Stay One Step Ahead.

Your annual ISA membership includes:

- A FREE subscription to INTECH®, the leading international journal of instrumentation.
- A FREE copy of the annual *ISA Directory of Instrumentation*®, featuring manufacturers listings, specifications and information.
- The latest ISA Standards & Practices - guidelines that improve performance, reduce costs, promote safety and improve communication - FREE on request, as issued.
- Discounts on ISA publications and training materials, including books, journals, directories, subscription services, reprints, software, videotapes and interactive videodisc instructional materials.
- Discounts on internationally-recognized ISA conferences and exhibitions, training courses and symposia, which provide unique opportunities to enhance your personal potential.
- Worldwide contacts within your area of specialization.
- Opportunities for peer recognition for your accomplishments and contributions to ISA.

*Seize the opportunity. Become a member of the ISA global network.
Call or write to ISA today.*

INSTRUMENTATION SERVICES

| | |
|--|---|
| FLOW | Strain Gauge Flowmeters Open Channel Ultrasonic Flowmeters Viscosity Monitoring Absolute Gauge and Differential Pressure Transmitters Signal Conditioning Modules Open Channel (Robotic Microprocessor Flowmeters) Insertion Sensor Flowmeters (Magtap) |
| VALVE POSITIONERS | Pneumatic: Single & Double Acting Electric / Pneumatic |
| ACTUATORS | Pneumatic |
| VALVE MONITORING | Mechanical / Proximity Limit Switches with Visual Indicators Position Transmitters Explosion Proof / Intrinsically Safe Units, Class 1, Div. 1, C.S.A. Approved Class 1, Div. 2 |
| PUMPS | Vacuum (Stainless Steel Bellows) Chemical Feed, Self Priming, Centrifugal |
| WASTE TREATMENT SYSTEMS | "Automatic" Gravity Pressure & Vacuum Filtration Systems Waste Water Portable Samplers Sludge Samplers, Effluent Samplers |
| GAS DETECTION | Triple Plus with Data Logging Gas Alarms, Flammable Gases Gasman - Personal Gas Monitors All Intrinsically Safe, C.S.A. Approved |
| FILTRATION SYSTEMS | Chemical, Oil Reconditioning Station |
| ANALYTICAL | Dissolved Oxygen Systems - PPM, PPB Suspended Solids Monitors Sludge Level Detectors - Optical and Ultrasonic Sludge Interface Detection - Ultrasonic Laboratory Instruments ph 0-14 or 2-12 ph ORP & Specific ION Measurement Sludge Samplers, Effluent Samplers |
| ELECTRONIC MANUFACTURING INDUSTRY | Environmental Test Chambers Semiconduction Handlers Programmiers Semi Automatic / Manual Water Probing Station & Accessories |
| TEMPERATURE CONTROL | Mobile Temperature Computer Control Probe |

CANCOPPAS LIMITED

1045 South Service Road West
Oakville, Ontario L6L 6K3

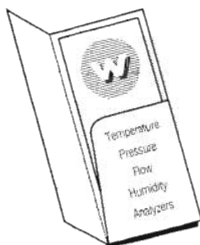
Tel: (905) 847-2740

Fax: (905) 827-6984

No matter
what your destination
in process measurement...



We're your first class ticket.



At Willer Engineering,
we go beyond quality
process measurement
and analysis products to
deliver a total package
that includes:

- Engineering application assistance
- Technical product information
- Product demos
- Competitive pricing
- After sales service, support and warranty coverage

Send for our latest
Product News Bulletin.



WILLER
ENGINEERING LIMITED

1960 (35) 1995

Your satisfaction is our success

Temperature • Pressure • Flow
• Humidity • Analyzers

Toronto

(416) 499-4421
Fax: (416) 499-0816

Montreal

(514) 333-8555
Fax: (514) 333-4662

Sarnia

(519) 336-3006
Fax: (519) 344-0607

Dartmouth

(902) 469-4400
Fax: (902) 463-1010

Sudbury

(705) 673-8900
Fax: (705) 673-8806

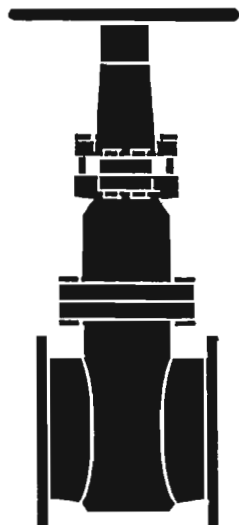
Meeting Dates

MEMBERSHIP DINNER MEETINGS

| Date | Place |
|--------------------|---------------------|
| September 25, 1995 | Lambton Shrine Club |
| November 27, 1995 | " |
| January 29, 1996 | " |
| March 25, 1996 | " |
| May 27, 1996 | " |

EXECUTIVE MEETINGS

| Date | Time | Place |
|--------------------|-------------------|------------------|
| July 17, 1995 | 7:00 p.m. | Fisher-Rosemount |
| September 11, 1995 | " | " |
| November 6, 1995 | " | " |
| January 8, 1996 | " | " |
| March 4, 1996 | " | " |
| May 6, 1996 | " | " |
| June 17, 1996 | TURN OVER MEETING | |



Professional Valve Service Ltd.

Quality Service For Over 25 Yrs.

859 Ontario Street, N7T 1N1
P.O. Box 761 Sarnia, Ontario N7T 7J7
Tel: (519) 336-3933 • Fax: (519) 336-6157



*— The Complete Shop and
Mobile Valve Service —*

24 HR SERVICE



In the U.S: P.O. Box 610097, Port Huron, MI, Zip Code 4806-0097



ENGINEERED SOLUTIONS - QUALITY PRODUCTS - SERVICE EXCELLENCE

| | | |
|---|---|---|
| INDUSTRIAL SCIENTIFIC <ul style="list-style-type: none"> • Portable Gas Detection Monitors |  SSCAN TECHNOLOGIES |  <ul style="list-style-type: none"> • Process and Emission Control |
|  <ul style="list-style-type: none"> • Detector Tubes | <p align="center">SSCAN TECHNOLOGIES BRINGS YOU THE FINEST SYSTEMS IN:</p> <ul style="list-style-type: none"> ➤ Process Instrumentation ➤ Gas Detection ➤ Fire Detection/Suppression ➤ Radiation Monitoring ➤ Environmental Monitoring ➤ Engineered Emergency Showers ➤ Hazardous Storage Systems ➤ Machine Guarding |  <ul style="list-style-type: none"> • Heat Stress Measurement • Relative Humidity |
|  <ul style="list-style-type: none"> • RH/Temperature Measurement | |  <ul style="list-style-type: none"> • Volatile Organic Compound Analyzers |
|  <ul style="list-style-type: none"> • Automated Gas Detection | |  <ul style="list-style-type: none"> • EtO / HCHO Badge Monitoring |
|  <ul style="list-style-type: none"> • Flow Transmitters and Switches | |  <ul style="list-style-type: none"> • Nuclear Level Gauges |
| AMETEK <ul style="list-style-type: none"> • Industrial Hygiene Pumps • Noise Monitors and Accessories | BACHARACH <ul style="list-style-type: none"> • Combustible and Toxic Gas Detection and Measurement Systems |  <ul style="list-style-type: none"> • Process-Refractometers |



Div. of Acklands-Safety Supply
90 West Beaver Creek Road
Richmond Hill, Ontario L4B 1E7

Telephone: (905) 731-8975
Fax: (905) 731-4723
Toll Free: 1-800-263-4701

Branches Across Canada

Dartmouth
Tel: (902) 468-9399
Fax: (902) 468-2655

Montreal
Tel: (514) 332-6105
Fax: (514) 332-4584

Ottawa
Tel: (613) 722-4269
Fax: (613) 729-3126

Sudbury
Tel: (705) 675-1111
Fax: (705) 675-1118

Winnipeg
Tel: (204) 944-3800
Fax: (204) 944-3827

Calgary
Tel: (403) 243-7300
Fax: (403) 243-2233

Edmonton
Tel: (403) 451-6345
Fax: (403) 452-1282

Burnaby
Tel: (604) 299-1212
Fax: (604) 299-9154

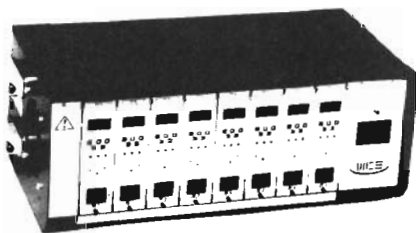
HEATING & CONTROL SYSTEMS



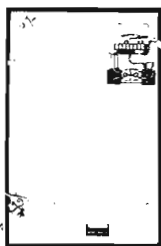
FUZZY LOGIC PID PROCESS CONTROLS
(32nd DIN TO 1/2 DIN)



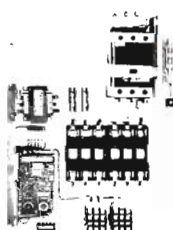
1 x 1 7/8" 32nd DIN
MINIATURE CONTROLLER



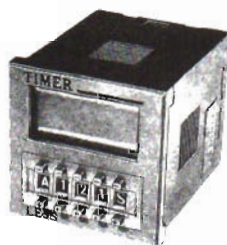
MULTIZONE CONTROLLERS



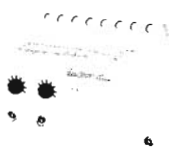
CUSTOM CONTROL PANELS



MULTI FUNCTION
MINIATURE DIGITAL
TIMERS



SCALING
COUNTER/TIMER



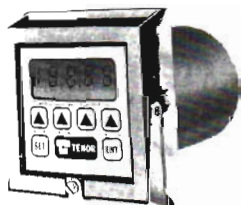
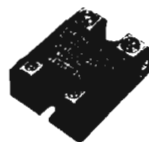
MOTOR CONTROLS



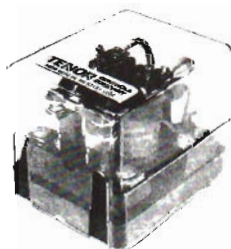
SOFT START/SHORT STOP
(5 TO 850 HP 600 VOLTS)



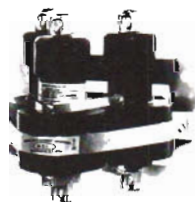
SOLID STATE RELAY
(SINGLE/THREE PHASE)



PROGRAMMABLE TIMERS



HI CURRENT RELAYS



MERCURY CONTACTORS
(20 TO 100 AMPS)

16 GRAFTON STREET, LONDON, ONTARIO N5Z 1N7
TEL: (519) 453-4457 FAX: (519) 453-5651



1915 - 30th Avenue N.E.,
Calgary, Alberta, Canada T2E 6Z5
TEL: (403) 250-9742
FAX: (403) 250-8624

distributed by: **BRIAN CONTROLS**
TEL: (519) 337-7591

CENTURY VALVE OFFERS
A COMPLETE LINE OF
INSTRUMENTATION VALVES AND
CM BRAND™ THERMOWELLS
MANUFACTURED IN CANADA.
CENTURY'S NEEDLE, GAUGE AND
MANIFOLD VALVES ARE
KNOWN WORLDWIDE FOR
EXCEPTIONAL QUALITY,
PERFORMANCE AND RELIABILITY.



J & M ENGINEERING & SALES LTD.

2899 STEELES AVE., W., UNIT 4, DOWNSVIEW, ONTARIO, CANADA M3J 3A1
TEL: (416) 665-2300 FAX: (416) 665-7530

Representing the Experts in Measurement and Control

Badger Meter Inc.

Liquid Meters and Batching Control Systems, Ultrasonic
Flowmeters, Open Channel and Closed Pipe Flow Tubes,
Ultrasonic Level

Wallace & Tiernan Inc.

Flowmeters, Chlorinators, Lime Slakers, Metering Pumps,
Feeders, Calibrators

IC Controls

pH, ORP, Conductivity, D.O., Probes & Controls

Lumenite Electronic Company

Conductive & RF Capacitance Level Products

Wilkerson Instrument Co., Inc.

Signal Conditioners, 2 Wire Transmitters, Indicators, Alarms

B/W Controls

Automatic Tank Gauging Systems

L.J. Star Inc.

Visual Flow & Sight Glass Indicators

Dynapar

Digital Meters & Encoders

"Where You Get Old Fashioned Service"

CONVAL EQUIPMENT

FEATURING:

ASCO JOUCOMATIC

 **PROTECTOSEAL®**

ASHCROFT 

Bellofram 

**Continental Disc®
Corporation**

KAYE & MAC DONALD

Solutions through engineered products.
 **MORRISEAL**
A  **DOVER** RESOURCES COMPANY

 **POWERS
PROCESS CONTROL**

 **conval**

Telephone: (416) 665-8960
Fax: (416) 665-9145
Toll Free: 1-800-265-1430

NEWS RELEASE

ABB INSTRUMENTATION

Two new analyzer systems which measure and control excess oxygen in combustion gases, have been developed by ABB Kent-Taylor for use in hazardous areas.

These systems form the latest addition to the well-established line of Kent-Taylor In-Situ zirconia oxygen analyzers and comprise Model EXGP for high temperature applications (600-1400 degC) and Model EXFG for operation in low process temperatures. (ambient to 600 degC).

LISLE-METRIX

Lisle-Metrix is very pleased to announce the appointment of Tom Elliott as its Technical Sales Representative for Eastern Ontario. Tom brings ten years industrial sales experience to this position, most recently with an international instrument manufacturer covering the same territory. Wilkie Oliver moves over to cover Southern Ontario, west of Toronto, to provide more intensive coverage and customer service in these areas. Lisle-Metrix is a manufacturer and sale representative firm who has provided instrumentation for industrial and environmental process control from its Toronto plant for over thirty years.

MOORE PRODUCTS CO.

Krohne's new variable area flowmeter - Model H250 - offers low pressure drop design and flanged construction. It has a specially designed cone made of 316SS or Hastelloy C that makes it especially suitable for gases or liquids on a wide variety of chemical, environmental and water / wastewater applications.

ROSEMOUNT INSTRUMENTS

The new Rosemount Model 3095 Multivariable™ Transmitter is a revolutionary smart transmitter that provides cost-effective mass or volumetric flow measurements for either gas or liquid fluids thereby reducing hardware and labour costs and simplifying installation, commissioning and maintenance.

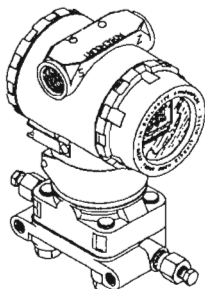
WALTECH ASSOCIATES

We would like to introduce our Company. Waltech Associates specializes in the sale of software to the Engineering design, Electrical design, Process control, Instrumentation, Data acquisition monitoring and associated educational market's also UPS hardware & software.

SEE WHAT'S NEW AT ROSEMOUNT...

Model 3051C High Performance Smart Pressure Transmitter

- Increased Rangeability -- 100:1
- Higher Temperature Limit -- 149°C(300°F)
- 1 Transmitter Platform For All Applications



PRiSM: an integrated, customizable, and cost-effective program designed to meet the full scope of service and support needs throughout the life cycle of your instruments.



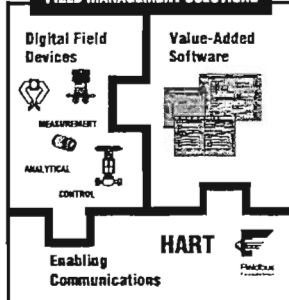
PRiSM

Professional Response in Service Management

Your Single Source Solution For:

- Pressure
- Temperature
- Level
- Flow
- Liquid & Gas Analytical

FIELD MANAGEMENT SOLUTIONS



Low Risk. High Reward.
We Call It Managing The Process Better.



Customer Service & Support

Tel: 1-800-268-1151

Fax: 1-800-563-3051

Service: 1-800-654-7768

Rosemount Instruments Ltd

581 Vidal Street South
Sarnia, ON N7T 2V8

ROSEMOUNT

FISHER-ROSEMOUNT® Managing The Process Better.

"Did You Know?"

NEW EXECUTIVE MEMBERS:

I would like to take a moment to welcome a couple of new people to the Sarnia Section Executive. Fred Sheane has agreed to take on the job of Education Chairman and Dr. Charles Brookes will be his Assistant. Both of these gentlemen are heavily involved in the CAPT Centre. Who would have a better understanding of our members education needs.

ISA SHOW CHAIRMAN:

Wayne Wilkins, of Summit Controls, has volunteered (been volunteered?) to be the 1997 Sarnia ISA Show Chairman. He will have plenty of help from the Feltons, Richard and Dick, of SPS, and many other people. Roy Pettitt will again take on the job Show Coordinator.

ENGINEERING WORK:

Engineering Week Display will be held at the Lambton Mall on March 7, 8 and 9th. Once again, we are looking for people to help man the booth during the display. If anyone can help, please give Randy Dennie a call at 337-8251.

MISSING STUFF:

A couple of years ago, we had something go missing after the Engineering Week display and despite a long and careful search, they have not turned up. The two items were a large free standing display booth in 2 large boxes and a box containing the "Candy Alarm", which consisted of a proximity detector and a large glass bowl. We suspect that they were stored in someone's warehouse or garage and forgotten about. If anyone knows where they are, or even if you have any brilliant suggestions, please let me know.

CAPT NIGHT - INTERNET PRESENTATION:

The CAPT Centre hosted a tour of their facilities on the evening of February 7th. They have a very impressive facility. In addition, we were given an overview of the Internet. Personally, I didn't realize that there was so much information available on the 'net' and how easy it is to access. I can see how you could become lost in browsing and discover that hours had gone by. If you have not had the opportunity to get on the Internet, check it out sometime. It is fascinating!

That's it for this time. See you in the next issue.

David Gooch

Executive Assistant

AMETEK

- photometric process analyzers
- moisture analyzers

AA Applied Automation Hartmann & Braun

- gas chromatographs
- continuous analyzers (UV, IR, TC & O₂)

Berthold Systems Inc.

- radiometric measurement
- level, density, consistency, belt weigher & sulphur
- microwave moisture

CONTROLTRON

- clamp-on ultrasonic flowmeters

FISONS Instruments

- VG process and environmental mass spectrometers

Kates

- flow rate controllers

LAND combustion

- opacity monitors
- CO monitors
- portable flue gas analyzers



mda scientific

- toxic substance monitoring
- chemcassette technology



Capabilities:

- applications engineering
- manufacturing of integrated systems
- start-up supervision
- staff training
- service centres across Canada
- inventory of equipment and parts
- complete performance warranty

Westech Industrial Ltd.

1001, 1149 Vanier Rd.

Sarnia, Ontario

N7S 3Y6

Tel: (519) 383-6320

Fax: (519) 383-6322



- pH and ORP measurement systems
- dissolved oxygen



- portable gas detection
- personal monitors

Omni

- liquid and gas flow computers

Z sieger

- combustible and toxic gas detection
- infra-red open path hydrocarbon gas detection
- infra-red point gas detection

Solartron

- liquid and gas density
- viscosity



- packaged analyzer systems
- CEM's
- flame detonation arresters



WHESSOE VAREC

- flame arresters
- tank appurtenances
- tank level gauges
- waste gas control equipment
- waste gas burners



- sampling and odorization

p r e s e n t s



TELEDYNE FLUID SYSTEMS

Farris Engineering

TEL: (519) 332-0141

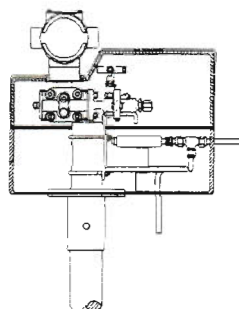
**SIZE MASTER
PLUS III
INDUSTRY'S MOST
EFFICIENT SIZING
AND SELECTION
PROGRAM**



(519) 336-8820

INSTRUMENT ENCLOSURES & HEATERS

- SINGLE AND MULTIPLE TRANSMITTER INSTALLATIONS
- CUSTOM ANALYZER ENCLOSURES
- CUSTOM SAMPLE SYSTEM ENCLOSURES
- MODULAR INSTRUMENT HOUSINGS
- "SMART" TRANSMITTER ENCLOSURE
- COMPUTER HEAT CALCULATIONS
- CAD LAYOUT OF INSTRUMENTS
- RETROFIT FIELD REPLACEMENTS
- 100% CANADIAN (SARNIA) MANUFACTURED

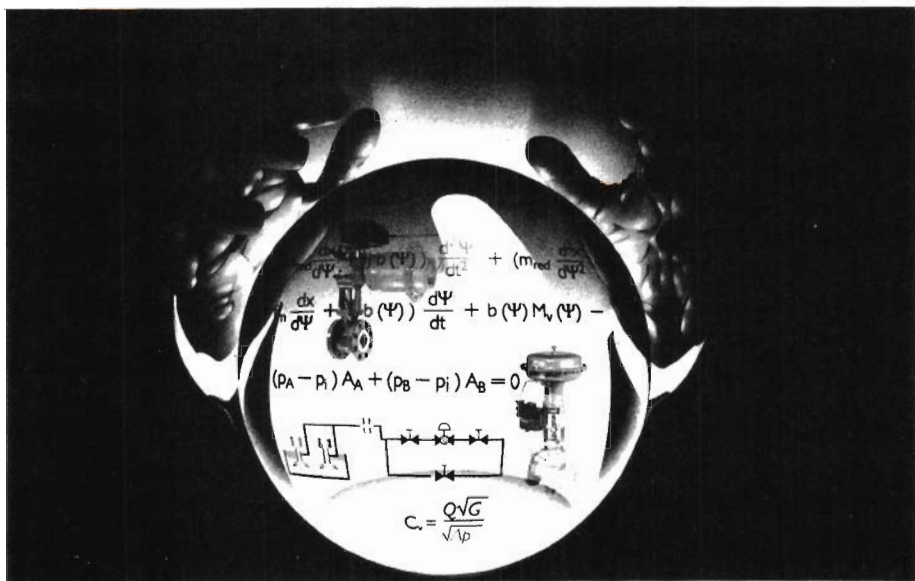


distributed by:



Sarnia Piping Specialties Ltd.

765 EVETT STREET, P.O. BOX 2018
SARNIA, ONTARIO N7T 7L1
(519) 336-8820 FAX: (519) 336-2033



WE'VE TAKEN THE MYSTERY OUT OF PREDICTING CONTROL VALVE PERFORMANCE.

Have you ever imagined what it would be like to know exactly how a particular control valve would impact your process performance before you've actually purchased it? We have. And now it's possible!

Using our sophisticated sizing, selection, simulation and diagnostics software, we can help you accurately select final control element solutions that maximize process accuracy and repeatability. Without the guesswork.

And because we offer one of the broadest ranges of rotary and reciprocating control valves, you can be

sure we'll have a selection for even your most critical application. After the sale, our expert service personnel will continue to make sure your control valves always perform as predicted.

So if You're looking for a more reliable method of improving process performance, think of us first. Call today! Contact Summit Controls Ltd. (519) 337-3200 for further information.



The ISMO™ Digital Positioner Accessory can improve accuracy and gather data on-line concerning final control element behavior.



The NELDIAG™ process simulation module illustrates the time constants you want.

The NELSCOPE™ Field Diagnostic Device can document control package accuracy and repeatability before installation.



NELES-JAMESBURY



Think of us first for final control element solutions.™

Summit Controls Ltd.

1-48 Queen St. E., Cambridge N3C 2A8 • Tel: (519) 651-2730 Fax: (519) 651-2722
1355 Confederation St., Samia N7S 4T2 • Tel: (519) 337-3200 Fax: (519) 337-7068

CASHCO

- PNEUMATIC CONTROL VALVES
- ELECTRIC CONTROL VALVES
- REGULATORS

FOXBORO CANADA

- PRESSURE INSTRUMENTATION
- TEMPERATURE INSTRUMENTATION
- FLOW INSTRUMENTATION
- ANALYTICAL PRODUCTS

GGOSCO ENGINEERING LTD.

- KINETROL VANE ACTUATORS
- PROXIMITY LIMIT SWITCHES
- GGOSCO STEAM TEST VALVES
- VALVE BRACKETS & COUPLINGS

SS & TEFLON HOSE ASSEMBLIES

MAGNETROL

- LEVEL CONTROLS: FLOAT CAPACITANCE, ULTRASONIC
- FLOW CONTROLS

M.T.L.

- INTRINSIC SAFE BARRIERS
- INTRINSIC SAFE SYSTEMS

PRIBUSIN

- SIGNAL CONDITIONERS
- CONTROLLERS, TRANSMITTERS
- POWER SUPPLIES

BURKERT

- PRECISION VALVES FOR PROCESS CONTROL



PROVINCIAL CONTROLS

DIVISION OF 660567 ONTARIO LIMITED

P.O. BOX 2946
373 VIDAL ST. S., SARNIA, ONT. N7T 7W2

TELEPHONE: (519) 336-7301
FAX: (519) 336-8082

NUMATICS

- FILTER/REGULATOR/LUBRICATOR
- SOLENOID VALVES
- AIR CYLINDERS
- ENERTROL SHOCK ABSORBERS
- AIR LOGIC CONTROL
- PANELS - Pneumatic & Electrical

FIBERGLAS INSTRUMENT ENCLOSURES

FITTINGS

- IMPERIAL EASTMAN
- NUMATIC

CONANT VALVES

HANSEN QUIK CONNECTS

PRESSURE & TEMPERATURE SWITCHES

THERMO-KINETICS

- THERMOCOUPLES, RTDs, THERMOWELLS, INFRARED THERMOMETERS
- TEMPERATURE CONTROLLERS, RECORDERS, SCANNERS

PERMACAL

- DIRECT DRIVE TEST AND PROCESS GAUGES

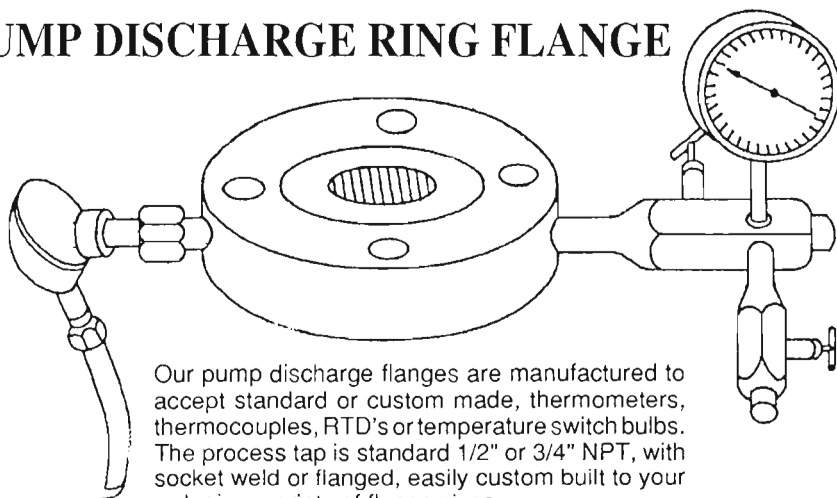
ORANGE RESEARCH

- DIFFERENTIAL PRESSURE INSTRUMENTS - PISTON & DIAPHRAGM

WINTERS

- PRESSURE GAUGES
- BI METAL THERMOMETERS
- INDUSTRIAL THERMOMETERS

PUMP DISCHARGE RING FLANGE



Our pump discharge flanges are manufactured to accept standard or custom made, thermometers, thermocouples, RTD's or temperature switch bulbs. The process tap is standard 1/2" or 3/4" NPT, with socket weld or flanged, easily custom built to your order in a variety of flange sizes.

ATTRIBUTES:

- ▼ Precision manufactured from solid block on CNC machines with polished finish.
- ▼ Adapts flat face pump discharge flange to raised face flange piping.
- ▼ Solves pump discharge temperature and pressure instrument requirements.
- ▼ Measures pump fluid temperature closer than was possible before.
- ▼ Eliminates costly piping fabrication.
- ▼ Eliminates multiple pipe connections reducing potential fugitive emissions points.

ENVIRONMENTALLY FRIENDLY

*Reduces Potential
Fugitive Emissions.*

SPECIFICATIONS

- ▼ Manufactured in accordance with ASME, ASTM and ANSI
- ▼ Canadian registration number
- ▼ Material A182 316/L, Monel, Alloy 20, Carbon Steel, A350/LF2 A105
- ▼ ISO 9000 Certified

INSTRUMENT & FITTING MANUFACTURER

1324 Lougar Avenue, Sarnia, Ontario N7S 5H7
Tel: (519) 332-1388 Fax: (519) 332-3280 **1-800-563-0292**

ISA GROUP INTERNET RATES

All Sarnia Section and Student Section members, are eligible for reduced rates with Sarnias full service Internet provider: Electro-Byte Technologies, 559B Exmouth St., Sarnia, 332-8235.

If you go there to sign up, just mention that you are an ISA member. They have a member list to verify your membership. You can also show your member card if you are not on the list.

The regular three month contract cost is \$20/month minimum for 30 hours plus one time \$20 connect fee, which is \$80. ISA Members ONLY pay \$10/month minimum for 10 hours plus one time \$10 connect fee, for a total of \$40. Additional 3 months cost \$30. Additional hours cost \$0.50.

Once you have Internet access, leave me a message at: bsmith@ebtech.net and check out my home page listed under Customer Pages or: <http://www2.ebtech.net/~bsmith>

There are links to other measurement and control Web sites plus a list of Manufacturer / Supplier Web sites, that I know of. Please let me know of any others that are not listed.

The Sarnia Section Home Page can be found at: <http://www2.ebtech.net/~bsmith/isasarni.html>

ANALYTICAL INSTRUMENTATION DRYERS

PUREGAS® HEATLESS AIR DRYERS AND ADSORBERS FOR:

- | | |
|--|--|
| <input type="checkbox"/> Removing H ₂ O and CO ₂ gases | <input type="checkbox"/> Dry gas reference for moisture analyzers |
| <input type="checkbox"/> Dewpoints to -100° F. | <input type="checkbox"/> Dry box purging |
| <input type="checkbox"/> Natural gas drying | <input type="checkbox"/> Prevention of air line freeze-up |
| <input type="checkbox"/> Purging atmosphere chambers | <input type="checkbox"/> Providing dry cooling air for electronic stress testing |
| <input type="checkbox"/> Replacement of nitrogen bottles | <input type="checkbox"/> Explosion proof environments |
| <input type="checkbox"/> Purging infrared spectrophotometers | |

Available as stand alone units with oil free compressors.

For more information call 1-800-787-3547

- ☐ Also representing Nicotra SCADA and monitoring systems

canadian puregas equipment limited

P. O. Box 280, Dunnville, Ontario. N1A 2X5

Tel. 905-774 8600 Fax 905-774-6974

☒ Check boxes and Fax for more information

Start to Finish...Fisher Service is your control valve repair expert.



No other organization offers more expertise in control valve repair than Fisher Service Company.

Fisher Service Company can perform expert valve repairs either in-house or onsite at customer locations.

Call your local Fisher-Rosemount Sales Representative today to find out more.

FISHER SERVICE COMPANY
(519) 332-2300
581 VIDAL ST. S.
SARNIA, ON N7T 2V8



BEP Bestobel

Yves Routhier
Technical Sales Representative

373 Vidal Street S.
Unit D3
Sarnia, ON N7T 2V3
Tel: (519) 336-0811
Fax: (519) 336-5808

LEVEL CONTROL

- Mobrey
- Madison
- Proximity

VALVES

- Tomoe (Butterfly)
- Ashford

WATER QUALITY ANALYZERS

- Zullig
- KDG Mobrey

COMBUSTION ANALYSIS

- Telegan

FLOW MEASUREMENT

- Erdco
- Mobrey
- Oilgear

STEAM TRAPS & TRAP TESTERS

- Bestobell

LEAK DETECTION

- Ion Track Instruments

TEMPERATURE SENSING

- Wahl Instruments
- Armtec Industries

PROCESS SAMPLERS

- Texas Sampling Inc.



Smart Choices from the Leader in Control

For effective measurement and control, choose quality devices from Honeywell's **TotalPlant®** portfolio. They'll help you:

- ✓ Increase productivity and profit
- ✓ Optimize use of raw materials
- ✓ Meet your customers' quality specifications
- ✓ Comply with environmental standards
- ✓ Enhance plant safety

Our **Smartline™** transmitters and flowmeters feature state-of-the-art microprocessor technology for accurate, reliable measurement of temperature, pressure, level and flow. They're field proven, easy to install and configure, and can be digitally integrated to the control system.

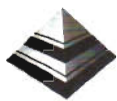
Honeywell offers **Leaderline™** controllers, programmers and recorders for almost any industrial application — from simple on-off control to feed forward, cascade and ratio control. Our line of circular and stripchart recorders includes advanced digital models with complex math and communication capabilities.

Superior product performance is built in and backed up by Honeywell's warranty program and comprehensive technical support.

For information, ordering or technical support, call:
Customer Response Centre 1-800-461-0013

Honeywell

Helping You Control Your World



SRP control systems Ltd.

INNOVATIONS IN TEST, MEASUREMENT & CALIBRATION INSTRUMENTS



DRUCK

SERIES PTX 600 PRECISION PRESSURE TRANSMITTER

ALL RANGES IN STOCK
LOW COST

- 0.05% accuracy
- Ranges 1 through 10000 psi
- Gauge, absolute or differential
- Two wire, 4-20mA output
- Factory set for any engineering unit
- Greater than 200% proof pressure
- -40°C to +80°C operation
- CSA Intrinsically safe
- R.F.I. protected
- NACE compatible construction



BRANDT I/P CONVERTER ALL RANGES IN STOCK

- CSA Intrinsically Safe or Explosion Proof
- Quick-Change Maintenance Module
- 0.05% Repeatability
- Filed -Selectable Direct/Reverse/Split Range
- -40°C Operation
- Amazing Low Price



UNOMAT MCX PRECISION PORTABLE MULTI-FUNCTION CALIBRATOR



- Reads input and output simultaneously
- 0.008% traceable accuracies
- True 4-wire RTD Measurements
- 52 input and output ranges
- Simulates thermocouples and RTD's
- Extended frequency functions
- Simulates 2-wire transmitters
- Programmable signal converter
- RS232 supplied as standard
- Output ramp and step functions
- Operates on batteries or line voltage
- Calibrates temperature transmitters
- Help screen
- Keystroke memory
- Solid state disk
- Instrumentation Manager Software

DRUCK DPI 605 PRECISION PORTABLE PRESSURE CALIBRATOR



- Integral pressure/ vacuum generation
- Barometric accuracy: $\pm 0.015\%$
- Voltage/current power source
- ISO9000 systems compatible
- Accuracy: $\pm 0.05\%$ of reading
- NEMA X sealed case - 9 lbs.
- Data transfer via RS232
- Range: -14.7 to 300 psi
- Functions include:
 - peak readings
 - switch testing
 - data logging
 - leak testing
 - limit setting
 - data analysis
- Instrumentation Manager Software



SRP control systems Ltd.

• 19-5155 Spectrum Way, Mississauga, Ontario L4W 5A1
(905)238-2880, Fax (905)238-9590, Toll Free 1-800-268-2605

FULL SERVICE & CALIBRATION ON-SITE AT OUR MISSISSAUGA FACILITY

Edmonton
(403)469-9307
(403)469-4542

Prince George
(604)561-0622
(604)563-4752

Join ISA Today!

Membership Form



INSTRUMENT SOCIETY OF AMERICA

This form may be used by any interested person wanting to join ISA or ISA International, including students. For assistance, contact ISA Member & Customer Services at (919) 549-8411.

Please type or use block letters. Sign and date below, in Section 3.

1 Name _____ ☐ Male ☐ Female Birthdate _____
 Company Name _____ (family last name) (first names) (middle initial) Division/Works _____
 Position/Title _____
☐ Check here if you are a full-time student and complete the following: School _____ Year of Graduation _____
 Mailing Address ☐ Home ☐ Work NOTE: Student member applicant, please list permanent home address.
 Street Address/P.O. Box _____ Mail Stop _____
 City _____
 State/Province _____ Postal Code _____ Country _____
 Telephone (include area code or country/city code) _____ FAX _____ Telex _____
 Have you ever been a member of ISA? ☐ Yes ☐ No Previous years of membership _____
 Assign me to the _____ section or the section closest to my home address.
 Highest Educational Degree Earned ☐ High School ☐ Associate ☐ Bachelor ☐ Master ☐ Doctorate
 Are you a registered professional engineer? ☐ Yes ☐ No State/Country Registered _____
☐ From time to time we may make our mailing list available to companies whose products or services may interest you. If you do not want your name exchanged, please check this box. We will respect your wishes.

2 NOTE: Sections 2, 3, and 5 must be completed for processing.

Check your primary job function:

- ☐ A. General or Corporate Management
- ☐ B. Control Systems Engineering
- ☐ C. Design Engineering
- ☐ D. Production Engineering
- ☐ E. Plant Engineering or Maintenance
- ☐ F. Software Engineering
- ☐ G. Plant Information Systems
- ☐ H. Systems Integration
- ☐ I. Measurement, Testing, Quality or Standards
- ☐ J. Research and Development
- ☐ K. Technical or Engineering Support
- ☐ L. Operations
- ☐ M. Purchasing or Procurement
- ☐ N. Education or Training
- ☐ O. Marketing or Sales
- ☐ P. Others: Describe _____

What is the primary end product manufactured or service performed at your company location? _____

☐ Check here if no manufacturing is done at this location.

3 Signature _____
 Date _____

5 Dues Payment Information
 Please select the level of membership for which applying

- ☐ Regular Member: \$60 US (Tax Deductible) \$ _____
- ☐ Student Member: \$9 US (Limited Benefits) \$ _____
- ☐ Division Membership: \$5 US each. \$ _____
- ☐ Industrial Computing Society Membership (reg. \$55): \$30 \$ _____
 — must be an ISA member.

Total Amount Due \$ _____

Annual ISA dues include a subscription to **INTECH**, for which a non-deductible allocation of \$8.00 is made for regular members and \$3.50 for student members.

Note: The following are acceptable for remitting dues payment. Please indicate the method used. Make payable to Instrument Society of America in **US currency only**, if paying with international funds, see special note below.

- ☐ Check ☐ Money Order
- ☐ American Express ☐ Eurocard ☐ MasterCard ☐ Visa

Acct # _____ Exp. Date _____

Special Note Regarding Transfer of International Funds

Credit Card Payment is preferred; checks with proper MICR bank encoding must be drawn on your bank's correspondent NY or other US bank. Amount payable to ISA must include any bank or other processing charges.

- ☐ Wire Transfer — Add \$5.00 US for processing. Send to ISA Account #1126294, Central Carolina Bank, ABAC53100465. Transfer must show applicant's name and address.
- ☐ UNESCO Coupons ☐ Money Order — Add \$5.00 US for processing.

Mail completed form and payment to: Instrument Society of America
 Member & Customer Services
 PO Box 3561
 Durham, North Carolina 27702
 USA

If paying by credit card, fax to: (919) 549-8288.

Division Enrollment — Also enroll me at \$5.00 each in the Divisions checked below. To join Divisions, you must also enroll as a regular or student member.

4 **Automation & Technology Divisions**

- ☐ (A) Analysis* ☐ (J) Test Measurement*
- ☐ (C) Robotics & Expert Systems ☐ (M) Automatic Control Systems*
- ☐ (D) Computer Technology* ☐ (N) Telemetry & Communications
- ☐ (E) Open Systems Interconnection ☐ (P) Electro-optics
- ☐ (H) Process Measurement & Control* ☐ (W) Management*
- ☐ (I) Maintenance

Industries & Sciences Divisions

- ☐ (B) Aerospace Industries* ☐ (R) Food & Pharmaceutical Industries*
- ☐ (F) Mining & Metals ☐ (T) Textile Industry
- ☐ (G) Chemical & Petroleum Industries* ☐ (U) Automotive & Vehicular
- ☐ (K) Construction and Design* ☐ (X) Water & Wastewater Industries
- ☐ (L) Pulp & Paper Industry* ☐ (Y) Glass & Ceramics Industries
- ☐ (O) Power Industry* ☐ (Z) Marketing & Sales*

* Students are entitled to one free membership each in the Automation & Technology and Industries & Sciences Divisions. Please choose and mark from the asterisked selections.

USERS DIRECTORY

This index lists manufacturers and trade-names alphabetically and enables users to determine the local representative for a particular manufacturer or product.

Manufacturer / Tradename

3 P
3-D
3M Circuit Tracer Kit
A. Kruss Optronics
A.H. Emery
A.S.I.
A.W. Sperry
Accutech
Accutron Heat Tracing
Acme Flo
ACR Systems
Acromag
Acrotech
Action Instruments
Action Instruments
Action Instruments
Advance Products Spray Shields
AEMC
AFE
AGI
AGM Electronics Inc.
All O2 Sensors
Air Flow
Air Monitor Corp.
Airscon Environment Technologies
Al-kon
Alltemp Sensors
Alnor
Alnor Instruments
Aitek
Altek
American
Ametek
Ametek
Ametek
Ametek - Analyzers
Ametek - Mansfield & Green
Ametek - PMT
Ametek - U.S. Gauge
Ametek Gauges
Amot
Amprobe
AMS Analytical Systems
Analogic
Anarad
Anderson Greenwood
Annubar/DSC
APACS
API Meters
Apollo
Appalachian Controls
Applied Automation
Ari
Arjay
Armatek
Armtec Industries
ARO
ASCO
ASCO
ASCO
ASCO
ASCO
Asco/Joucomatic
Ascolectric
Ashcroft

Local Sales Representative

Romatec
Alpha Controls & Instrumentation
Transcat
SSCAN Technologies
Syber Systems Inc.
Westburne Lytle
Transcat
Brian Controls
Controls
Summit Controls Ltd.
Alpha Controls & Instrumentation
Willer Engineering
Transcat
Cambridge Controls
Heaters Controls & Sensors Ltd.
Ovantum Sales
Sarnia Piping Specialties
Transcat
Axiom Technologies Ltd.
Controls
Vermeer Engineering
Vermeer Engineering
Transcat
Westech Industrial Ltd.
SSCAN Technologies
Summit Controls Ltd.
TubeTech
Baker Instruments Ltd.
Transcat
Alpha Controls & Instrumentation
Transcat
Axiom Technologies Ltd.
Brian Controls
SSCAN Technologies
Transcat
Westech Industrial Ltd.
Brian Controls
Brian Controls
Brian Controls
Hardie Industrial Services Inc.
Mentec Sarnia Ltd.
Transcat
Vermeer Engineering
Transcat
Vermeer Engineering
Cantech Controls
Floval Equipment Ltd.
Moore Products Co. (Canada) Inc.
Lisle-Matrix Ltd.
Romatec
Controls
Westech Industrial Ltd.
Alpha Controls & Instrumentation
TubeTech
Armatek Controls
Bestobell Canada
Mentec Sarnia Ltd.
Northern Abcor
Conval Equipment
Summit Controls Ltd.
TubeTech
Westburne Lytle
Northern Abcor
Floval Equipment Ltd.
Romatec

Manufacturer / Tradename

Ashcroft
Ashcroft-Dresser
Ashford Valve
Astro International
Atkins
Atomac Ball & Check Valves
Auma Electric Actuators
Aurora
Automatic Systems Laboratories
Autotech
Azonix
B & K
B.N.W.
B/W Controls
Babbitt International Inc.
Bacharach
Bacharach - Hand Held Instruments
Backos
Badger Fire Protection
Badger Meter
Bailey
Bailey - Fischer & Porter
Baldwin Environmental Inc.
Balluff
Balston Filters
Barber Engineering
Barber-Colman
Barnant
Barnant
Barton
Baumann
Beamex
Bebco Industries
Beckman Industrial
BEHA
BEI
Bellofram
Bellofram
Berthold
Bestobell Steam, Div. of Richards Ind.
Bestobell Valves
Beta
Beta
Bi-Lok Fittings
Biccotest
Biddle
Bin-Master
Bio-Tek
Bios International
Bios International
BJ Software
BLH Electronics
Blue White
BOILER-GARD
Bourdon-Sedeme (Manobourdon) Gauges
Brandt
Brandt Instruments Inc.
Branson
Brian
Bristol Babcock
Brooklyn Thermometer
Brooks-Meter
BS & B
BTG Inc.
Burkert Contromatic
Burling Instruments
C.E.A. Instruments
Cajon Pipe Fittings
Cal
Canadian Meter
Cancoppas Limited
Cantech Systems

Local Sales Representative

Transcat
Conval Equipment
Bestobell Canada
Detech Industries
Transcat
Sarnia Piping Specialties
G.L. Stebbins
Mentec Sarnia Ltd.
SRP Controls Systems Ltd.
Davis Controls
Transcat
Transcat
Floval Equipment Ltd.
Ovantium Sales
G.L. Stebbins
Willer Engineering
Transcat
Mentec Sarnia Ltd.
SSCAN Technologies
J & M Engineering & Sales Ltd.
Tubetech Ltd.
Tubetech Ltd.
Novatech
Davis Controls
Sarnia Piping Specialties
Ovantium Sales
Davis Controls
Heaters Controls & Sensors Ltd.
Transcat
Armatek Controls
Lakeside Process Controls
Transcat
Controls
Transcat
Transcat
Willer Engineering
Conval Equipment
Romatec
Westech Industrial Ltd.
Bestobell Canada
Bestobell Canada
Armatek Controls
Transcat
Sarnia Piping Specialties
Transcat
Transcat
Regional Process Equipment
Transcat
Brian Controls
SSCAN Technologies
Davis Controls
CB Engineering
Brian Controls
Lisle-Matrix Ltd.
Sarnia Piping Specialties
Willer Engineering
SRP Controls Systems Ltd.
Transcat
Brian Controls
Sharp Valve & Instrumentation
Transcat
Mentec Sarnia Ltd.
Romatec
Summit Controls Ltd.
Provincial Controls
Baker Instruments Ltd.
SSCAN Technologies
Huron Valve & Fittings
Davis Controls
G.L. Stebbins
Spec Sarnia Limited
Cantech Controls

Manufacturer / Tradename

Cash-Acme
Cashco Canada
Cashco Canada, Inc.
Cel Instruments
Cellex
Cellex
Celtek Electronics
Cemco
Century Instrument
Century Valve
Cerabar
Cerberus Pyrotronics
Chandler
Chatam Controls
Checkpoint Systems
Chem-Tec
Chemline
Chemtrol
Chessell Recorders / Controllers
Clif Mock
Colder
Computer Keyboard Systems (CKS)
Con-Tek
Conant Valves
Conders
Consolidated
Consolidated Controls
Continental Disc Corporation
Control Instruments Corp.
Control Microsystems
Controlair Inc.
Controlair Inc.
Controlotron
Controls International Inc.
Cooper Instruments
Cox
Crowcon
CSI - Microloggers
Custom Control Sensors
Cybex
D.E.P. Industries
Dahl
Danfoss
Danfoss Mfg. Co. Ltd. - Denmark
Daniel Industries
Data Industrial Corporation
Data Precision
Datel
Davis Controls Ltd.
Davis Instruments
Defelsko
Delavan
Delphian
Delta-M
Deltabar
Deltapilot
Detector Electronics (Dettronics)
Devar
DewPro
Dewrance
DeZurik
DGH
Dianachart
Dickson
Digitec
Dillon
Dopak
Dover Gas Technologies
Dow Plastic Lined Piping Products
Drager
Drainall
Druck

Local Sales Representative

Westburne Lytle
Provincial Controls
Cambridge Controls
SSCAN Technologies
Armatek Controls
Spec Sarnia Limited
Cantrols
Cantech Controls
Sarnia Piping Specialties
Brian Controls
Endress + Hauser
SSCAN Technologies
Transcat
Heaters Controls & Sensors Ltd.
Cantech Controls
Brian Controls
Floval Equipment Ltd.
U & I Supply
Willer Engineering
Westburne Lytle
Davis Controls
CB Engineering
Lakeside Process Controls
Provincial Controls
Transcat
Contro Valve Inc.
Transcat
Conval Equipment
Willer Engineering
Brian Controls
Cambridge Controls
Northern Abcor
Westech Industrial Ltd.
Northern Abcor
Transcat
Brian Controls
Regional Process Equipment
Campbell Scientific (Canada) Corp.
Willer Engineering
CB Engineering
Summit Controls Ltd.
Armatek Controls
Davis Controls
Lisle-Matrix Ltd.
Cantrols
Cambridge Controls
Transcat
Transcat
Spec Sarnia Limited
Transcat
Transcat
Armatek Controls
Romatec
Brian Controls
Endress + Hauser
Endress + Hauser
CB Engineering
Cantech Controls
Endress + Hauser
Contro Valve Inc.
Floval Equipment Ltd.
Alpha Controls & Instrumentation
Alpha Controls & Instrumentation
Transcat
Brian Controls
Brian Controls
Westburne Lytle
Veronics
Sarnia Piping Specialties
SSCAN Technologies
Mentec Sarnia Ltd.
Transcat

Manufacturer / Tradename

Druck Incorporated
DSP Technology
Durakool
Duro
Duro-Sense
Dwyer
Dwyer
Dwyer
Dwyer
Dylon
Dynapar
Dynapar
Dynasonics
Dynatech Nevada
E-T-A Control Instruments
Eagle Signal
Eagle Signal
Eaton IDT
ECD
ECD
Echotel
ECS Control Techniques
EG & G Flow Technology Inc.
EG&G Moisture & Humidity
EIT Inc.
EI-O-Matic
Elcon Instruments Inc.
Electromatic
Electromatic
Elremco Timers - England
Elsag Bailey
EMCO
Emission S.A.
Encoder
Encon Safety Products
Endress + Hauser
Enertronic Shocks
Enertronic
Engineered Valves International (E.V.I.)
Enraf Inc.
Environics
Environmental Products
Environmental Technologies Group Inc.
Environnement S.A.
Epic Samplers
Erdco
Erhard Valves - Germany
ETC
Euchner
Eurotherm
Exergen
Exotherm
Expo Safety Systems
F.B. Leopold - USA
F.W. Bell
F.W. Murphy
Fabco Air
Fairchild
Farris
FCI
Fieldview
Fike
Fike Canada Inc.
Fisher Controls
Fisher Research
Fisher Service
Fisher-Rosemount Systems
Fisons Instruments
Flow Meter Co. - England
Flow-Lin Corporation
Flowline
Flowmetrics Inc.

Local Sales Representative

SRP Controls Systems Ltd.
SRP Controls Systems Ltd.
Davis Controls
Brian Controls
Transcat
Baker Instruments Ltd.
Cantech Controls
Davis Controls
Transcat
Mentec Sarnia Ltd.
Davis Controls
J & M Engineering & Sales Ltd.
Brian Controls
SSCAN Technologies
SSCAN Technologies
Davis Controls
J & M Engineering & Sales Ltd.
Cantech Controls
Novatech
Transcat
Provincial Controls
Vermeer Engineering
CB Engineering
Vermeer Engineering
Vermeer Engineering
Westburne Lytle
SRP Controls Systems Ltd.
Davis Controls
Heaters Controls & Sensors Ltd.
Lisle-Matrix Ltd.
Tubetech Ltd.
Davis Controls
SSCAN Technologies
Axiom Technologies Ltd.
SSCAN Technologies
Regional Process Equipment
Provincial Controls
Axiom Technologies Ltd.
Westburne Lytle
Willer Engineering
Brian Controls
Spec Sarnia Limited
Novatech
SSCAN Technologies
Spec Sarnia Limited
Bestobell Canada
Lisle-Matrix Ltd.
Transcat
Davis Controls
Heaters Controls & Sensors Ltd.
Heaters Controls & Sensors Ltd.
Heaters Controls & Sensors Ltd.
Syber Systems Inc.
Lisle-Matrix Ltd.
Transcat
Cantech Controls
Davis Controls
Regional Process Equipment
Floval Equipment Ltd.
Willer Engineering
Lakeside Process Controls
Sharp Valve & Instrumentation
Brian Controls
Lakeside Process Controls
Transcat
Lakeside Process Controls
Lakeside Process Controls
Westech Industrial Ltd.
Lisle-Matrix Ltd.
G.L. Stebbins
Brian Controls
SRP Controls Systems Ltd.

Manufacturer / Tradename

Fluid Data/Amscor
Fluidic
Fluke
Foxboro
Foxboro - Measurement, Instruments, Parts
Foxboro Analytical Group
FUJI
Fujikin of America Inc.
Fulier
G.C. Industries
G.H. Flow
G.W. Dahl
Galtek
Gamma Silometer
Gefran s.p.a.
General Controls
General Eastern
General Metal Works
General Resistance
General Resource (Isomatic Corp.)
Geokon
GGOSCO Engineering
GGOSCO Needle Valves
GGOSCO Valves
GH Flow Automation
GLA Elettronica
Global
GMD Systems
GO Regulators
GO Switch (Proximity)
GP:50 New York Ltd.
GPE
Graham Manufacturing
Gralab
Granucor
Granulflow
Granumet
Graseby / STI
Great Plains Industries
Greyline Instruments
Guardmark International
H.D. Baumann
Hammel Dahl
Hancock
Hanna Instruments
Hansen Quik Connects
Hartman-Technica
Hartmann & Braun
Hathaway
Hathaway-Wodex
Haws
Haz-Stor
Hedland
Heise
Herasus Sensors
Hermon
Hewlett Packard
Hex Valve
Hiltap Couplers
Hiltcroft
Hitachi
Hitachi - Oscilloscopes
Hoffer Flow Controls - USA
Holaday Industries
Honeywell
Honeywell - Controllers & Recorders
Honeywell - Recorders
Honeywell - Recorders
Horiba
Huntron
Hy-Cal
HydroGuard

Local Sales Representative

Armatek Controls
Brian Controls
Transcat
Ovantum Sales
Provincial Controls
Vermeer Engineering
Heaters Controls & Sensors Ltd.
Ovantum Sales
Syber Systems Inc.
Brian Controls
Cantech Controls
Armatek Controls
Romatec
Endress + Hauser
SRP Controls Systems Ltd.
Summit Controls Ltd.
Willer Engineering
SSCAN Technologies
Transcat
G.L. Stebbins
Campbell Scientific (Canada) Corp.
Provincial Controls
Westburne Lytle
Hardie Industrial Services Inc.
Ovantum Sales
SRP Controls Systems Ltd.
Transcat
SSCAN Technologies
Sarnia Piping Specialties
Lakeside Process Control
SRP Controls Systems Ltd.
Sharp Valve & Instrumentation
Lakeside Process Controls
Transcat
Endress + Hauser
Endress + Hauser
Endress + Hauser
CB Engineering
Armatek Controls
Controls
SSCAN Technologies
Lakeside Process Controls
Summit Controls Ltd.
Contro Valve Inc.
SSCAN Technologies
Provincial Controls
Transcat
Westech Industrial Ltd.
Armatek Controls
Alpha Controls & Instrumentation
Mentec Sarnia Ltd.
SSCAN Technologies
Brian Controls
Transcat
SRP Controls Systems Ltd.
Spec Sarnia Limited
Transcat
Sharp Valve & Instrumentation
U & I Supply
Syber Systems Inc.
Davis Controls
Transcat
Lisle-Metrix Ltd.
SSCAN Technologies
Davis Controls
Brian Controls
Provincial Controls
Transcat
Alpha Controls & Instrumentation
Transcat
Davis Controls
Endress + Hauser

Manufacturer / Tradename

I.S.T.
IBM Industrial Computers
IC Controls
IDEC
IET
Illinois Instruments
Imi-Cash Valve Inc.
Imperial Eastman
Imperial Eastman
Imperial Eastman Fittings
IMS
Industrial Scientific Corp.
Industrial Sensors
Ingold
Inor
Intelligent Controls Inc.
Intellution
Intempco
Interlink
Interscan
Interscan Corp.
Intertec
Intertec
Ion Track Instrumentation (ITI)
Ionics Instrument Division
Iotron
Ircon
ISI
Isothermal Technology Ltd.
IST
ITT Barton Instruments
ITT Conoflow Regulators & Seals
ITT Engineered Valves
ITT Neo-Dyn Switches
ITT Standards (Engineered Products only)
IVO Industries - USA
J.M. Canty, Inc.
Jacoby Tarbox
Jamesbury
JB Engineering
Jensen
Jerguson Level Gauges
Jofra
Jofra
Johnson Yokogawa
Jordan Controls, Inc.
Joucomatic International
Julius Bauser - Germany
K & M Valve Co.
K-Tek
Kammer Control Valves
Kammer Control Valves
Kane-May
Kates
Kavlico Corp.
Kay Ray/Sensall
Kaye
Kaye Instruments
KDG Mobrey
Keddc Co Mfg Ltd.
Keller
Kent Meters Inc.
Kenwood USA
Kessler Ellis
Ketema - McCrometer
Ketema - Schutte & Koerting
KF Industries
Kinetrol
Kinetrol Actuators
Kip
Kistler-Morse
Klinger

Local Sales Representative

SSCAN Technologies
CB Engineering
J & M Engineering & Sales Ltd.
Axiom Technologies Ltd.
Transcat
Veronics
G.L. Stebbins
Axiom Technologies Ltd.
U & I Supply
Provincial Controls
Mentec Sarnia Ltd.
SSCAN Technologies
Heaters Controls & Sensors Ltd.
Westech Industrial Ltd.
Alpha Controls & Instrumentation
SRP Controls Systems Ltd.
CB Engineering
Cantech Controls
Vermeer Engineering
Brian Controls
SSCAN Technologies
Northern Abcor
TubeTech
Bestobell Canada
Veronics
Northern Abcor
Willer Engineering
Heaters Controls & Sensors Ltd.
SRP Controls Systems Ltd.
SSCAN Technologies
Armatek Controls
Sarnia Piping Specialties
Romatec
Sarnia Piping Specialties
Northern Abcor
Lisle-Matrix Ltd.
Cambridge Controls
Romatec
Summit Controls Ltd.
Transcat
Transcat
Romatec
Brian Controls
Transcat
CB Engineering
Cambridge Controls
Conval Equipment
Lisle-Matrix Ltd.
Floval Equipment Ltd.
CB Engineering
Controls
Westburne Lytle
Transcat
Westech Industrial Ltd.
SRP Controls Systems Ltd.
Rosemount Instruments
Transcat
CB Engineering
Bestobell Canada
U & I Supply
Campbell Scientific (Canada) Corp.
G.L. Stebbins
Transcat
Brian Controls
Brian Controls
Brian Controls
Mentec Sarnia Ltd.
Provincial Controls
Hardie Industrial Services Inc.
Brian Controls
Ovantium Sales
Davis Controls

Manufacturer / Tradename

KNF Neuberger
Kobold
Koch
Komax
Kotron
Krebs Engineer
Kreyenborg
Krohne
Kruss Optronic
KTM
KTM
Kurz
Kurz
L & J Technologies
LAGCO Flumes - USA
Land
Land - Analyzers
Larad
Laurence
LCI-Luwa
Leader
Leaderline
Leaderline
Lee-Dickens Ltd. - England
Legris
LEOPOLD
Leslie
Lewis
LFE Instruments - USA
LI-COR
Limitorque
Liquid-O-Ring
Liquiphant
LMI
LMI
London Mat Industries
Love
Lucas Nova Sensor
Lumenite Electronic Company
M and Y Valve Services
M point
M-Systems Co. Ltd.
M-Tek
MaCWeld
MacWeld Products
Madison
Madison Company
Madur Electronics
Magnetrol
Major
Mamac
Manobourdon
Marsh
Marsh Instruments
Martel
Masoneilan
Max
MCS
MDI
Mead
Meeco Inc.
Mercoid
Meriam Instruments
Mesa Laboratories
Met One
Metrix
Metrix Timers
Metrosonics
Micon
Micro Motion
Micronics Ltd.
Micropilot

Local Sales Representative

Transcat
Regional Process Equipment
Romatec
Floval Equipment Ltd.
Provincial Controls
Floval Equipment Ltd.
Mentec Sarnia Ltd.
Moore Products Co. (Canada) Inc.
SSCAN Technologies
Associated Valve
Regional Process Equipment
Brian Controls
Transcat
Sharp Valve & Instrumentation
Lisle-Metrix Ltd.
Transcat
Westech Industrial Ltd.
Syber Systems Inc.
Mentec Sarnia Ltd.
Mentec Sarnia Ltd.
Transcat
Brian Controls
Honeywell
Lisle-Metrix Ltd.
Axiom Technologies Ltd.
Lisle-Metrix Ltd.
Mentec Sarnia Ltd.
Transcat
Lisle-Metrix Ltd.
Campbell Scientific (Canada) Corp.
Sharp Valve & Instrumentation
Mentec Sarnia Ltd.
Endress + Hauser
Novatech
U & I Supply
SSCAN Technologies
Davis Controls
SRP Controls Systems Ltd.
J & M Engineering & Sales Ltd.
Ovantum Sales
Endress + Hauser
SRP Controls Systems Ltd.
Transcat
Heaters Controls & Sensors Ltd.
Northern Abcor
Bestobell Canada
Ovantum Sales
Novatech
Provincial Controls
Alpha Controls & Instrumentation
Floval Equipment Ltd.
Sarnia Piping Specialties
TubeTech
Ovantum Sales
Transcat
Contro Valve Inc.
Willer Engineering
Heaters Controls & Sensors Ltd.
Heaters Controls & Sensors Ltd.
Transcat
Novatech
Davis Controls
Transcat
Armatek Controls
Campbell Scientific (Canada) Corp.
Transcat
Lisle-Metrix Ltd.
Brian Controls
Cantech Controls
Rosemount Instruments
Veronics
Endress + Hauser

Manufacturer / Tradename

Mid-West Instrument
Mid-West Instrument
Mikron
Milton Roy - Liquid Metronics Division
Milwaukee
Mini-X Purge Systems
Mini-Z Purge Systems
Mitsubishi
MKS
Mobrey
Modulevel
Monarch
Monitek
Monitor Labs
Monitor Labs
Moore
Moore Industries
Moore Products Pressure Regulators
MST
MTL
MTL IS Barriers
Mueller
Multi-Amp
Multi-Volt
Multicap
Mycro
Myron L
Nassau Instrument
NBS
Nejes
Neles-Jamesbury
Neotronics
Neotronics
Neotronics
NGI
Nil-Cor
Nivocompact
Nivosonic
Norac
Norriseal
Norriseal Butterfly Valves
Norstat
Northern Vibrator
Novalynx
Novatech Systems Group
NRC Industries
Numatic Cylinders
Numatic Fittings
Numatics
Numatics Solenoid Valves
Nupro Valves
Nusonics
O'Brien Corporation
Oakton
Ogden
Ogontz
Ohio Semitronics Inc.
Oilgear
Oldham
Oliver Valves
OMNI
Omron
Opsis
Orange Research
Orion
Pacer Industries
Pacific Instrument Inc.
Pacific Scientific
Pamark Manifolds
Panalarm
Panalarm
Panametrics PCI Division

Local Sales Representative

Brian Controls
Hardie Industrial Services Inc.
Transcat
U & I Supply
Floval Equipment Ltd.
Syber Systems Inc.
Syber Systems Inc.
Davis Controls
Transcat
Bestobell Canada
Provincial Controls
Transcat
Willer Engineering
Brian Controls
Romatec
Moore Products Co. (Canada) Inc.
Armatek Controls
Transcat
Brian Controls
Syber Systems Inc.
Provincial Controls
Mentec Sarnia Ltd.
Transcat
Transcat
Endress + Hauser
Moore Products Co. (Canada) Inc.
Transcat
Transcat
Transcat
Summit Controls Ltd.
Summit Controls Ltd.
Cantech Controls
Transcat
Westech Industrial Ltd.
Transcat
Contro Valve Inc.
Endress + Hauser
Endress + Hauser
Ovantium Sales
Conval Equipment
Sarnia Piping Specialties
Davis Controls
Floval Equipment Ltd.
Brian Controls
Novatech
SSCAN Technologies
Provincial Controls
Provincial Controls
Axiom Technologies Ltd.
Provincial Controls
Huron Valve & Fittings
Armatek Controls
CB Engineering
Transcat
Heaters Controls & Sensors Ltd.
Cantech Controls
Ovantium Sales
Bestobell Canada
Cantech Controls
Sarnia Piping Specialties
Westech Industrial Ltd.
Axiom Technologies Ltd.
SSCAN Technologies
Provincial Controls
Transcat
Transcat
SRP Controls Systems Ltd.
G.L. Stebbins
Provincial Controls
Cambridge Controls
Willer Engineering
Veronics

Manufacturer / Tradename

Papailias
Parker
Partlow
Paul Mueller
Pelican
Penberthy
Penberthy Instruments
Penny & Giles
Pepperl + Fuchs - USA
Permacal Gauges
Phipps & Bird
Phoenix Contact
Pick Heaters
PMV
Polysonics Inc.
Polytronics
Porter Instrument Co. - USA
Positive Safety
Powers Process Control
Powers Process Control
Precision Digital
Precision Digital
Precision Digital Corp.
Precision Digital Corporation
Preso Flow Meters
Pribusin
Pribusin Inc.
Prolevel
Promac
Promac
Promag
Promag
Promass
Proquip
Prosonic
Protimeter
Provincial Instrument Housings
Provox
Prowirl
Proximity Control
Proximity Controls
PTC
PTC
Pulsafeeder
Pyrene Fire Security
Pyromation Inc.
QSDM
QSDM
Quad Tech
Qualimetrics
Quality Control Equipment Company
Quantum
R.M. Young
R.P. Adams
Ralston
Ralston
Ramsey Canada
Ray
Raytek
Raytek
Raytek
Raytek/UE
RdF
REBS
REK RKC
Research Control Valves
Resistoflex
REXA Corp.
Rexcon
Rexroth
Rezplast
RGS

Local Sales Representative

Mentec Sarnia Ltd.
TubeTech
Northern Abcor
Mentec Sarnia Ltd.
Transcat
Brian Controls
Hardie Industrial Services Inc.
Cantech Controls
Lisle-Metrix Ltd.
Provincial Controls
Transcat
Axiom Technologies Ltd.
Sharp Valve & Instrumentation
Regional Process Equipment
SRP Controls Systems Ltd.
Transcat
Lisle-Metrix Ltd.
SSCAN Technologies
Conval Equipment
Heaters Controls & Sensors Ltd.
Alpha Controls & Instrumentation
Armatek Controls
Ovantum Sales
Cambridge Controls
J & M Engineering & Sales Ltd.
Provincial Controls
Novatech
Endress + Hauser
Armatek Controls
Transcat
Endress + Hauser
Westburne Lytle
Endress + Hauser
Spec Sarnia Limited
Endress + Hauser
Alpha Controls & Instrumentation
Provincial Controls
Lakeside Process Controls
Endress + Hauser
Provincial Controls
Bestobell Canada
Brian Controls
Transcat
Romatec
SSCAN Technologies
Northern Abcor
Alpha Controls & Instrumentation
Willer Engineering
Transcat
Transcat
Ovantum Sales
Campbell Scientific (Canada) Corp.
Mentec Sarnia Ltd.
Axiom Technologies Ltd.
Transcat
Ovantum Sales
Brian Controls
Heaters Controls & Sensors Ltd.
Northern Abcor
Transcat
Mentec Sarnia Ltd.
Willer Engineering
Campbell Scientific (Canada) Corp.
Heaters Controls & Sensors Ltd.
Lakeside Process Control
Sharp Valve & Instrumentation
Controls
Axiom Technologies Ltd.
Mentec Sarnia Ltd.
Mentec Sarnia Ltd.
Syber Systems Inc.

Manufacturer / Tradename

RIMCO - Raingauges
RIS
Roberts Mfg. Inc.
Robertshaw
Rochester Instrument Systems
Rohrbach Cosasco Systems
Roper Pump
Rosemount
Rosemount Analytical
Rosemount Analytical
Rosemount Combustion Control
Rosemount RS3 Systems
Rotomation
Rotronic
Royce Instruments
Ruffneck
Ruskin (Control Dampers)
Rustrak
S.P.S. Instrument Services
Samson
Sarasota Instrumentation
Schlumberger/Neptune Flow Meters
Schrader Bellows
Scientific Linings & Coatings
Scully Electronic Systems Inc.
Seacor
Sealed Unit Parts
Seametrics Inc.
Senior Flexonics
Sensall
Sensidyne
Sensidyne Gas Monitors
Sensortech Systems Inc.
Serge-Baril
Servomex
Setra
Sfere
Shan Rod Inc.
Shand & Jurs
Shimpo
Sieger
Siemens
Siemens Process Analyzers
Sierra Monitor
Sierra Monitor
Signet Scientific
Signet Scientific
Sigrist-Photometer Co. - Switzerland
Silometer
Simpson
Sinkel
Skinner
Smar International
Smartline
Smartline
Sno-Trik
Solartron
Soliphant
Solomat
South-West Meters
Sparling
SPM
SPS Fibre Form Enclosures
SSI Equipment
Stahl
Statham
STI
Stonel
Strahman
Sugino
Swagelok Tube Fittings
Syscon

Local Sales Representative

Campbell Scientific (Canada) Corp.
Transcat
G.L. Stebbins
Spec Sarnia Limited
Sharp Valve & Instrumentation
Armatek Controls
U & I Supply
Rosemount Instruments
Rosemount Instruments
Transcat
Romatec
Lakeside Process Control
Axiom Technologies Ltd.
Alpha Controls & Instrumentation
Spec Sarnia Limited
Mentec Sarnia Ltd.
G.L. Stebbins
Transcat
Sarnia Piping Specialties
Ovantum Sales
SRP Controls Systems Ltd.
Sarnia Piping Specialties
TubeTech
Cantech Controls
SRP Controls Systems Ltd.
Transcat
Transcat
Veronics
Regional Process Equipment
Alpha Controls & Instrumentation
Novatech
Transcat
Novatech
Mentec Sarnia Ltd.
Novatech
Alpha Controls & Instrumentation
Regional Process Equipment
Floval Equipment Ltd.
Sharp Valve & Instrumentation
Transcat
Westech Industrial Ltd.
Alpha Controls & Instrumentation
Willer Engineering
Controls
Transcat
Brian Controls
Hardie Industrial Services Inc.
Lisle-Metrix Ltd.
Endress + Hauser
Transcat
SSCAN Technologies
Cantech Controls
G.L. Stebbins
Brian Controls
Honeywell
Huron Valve & Fittings
Westech Industrial Ltd.
Endress + Hauser
Transcat
Sarnia Piping Specialties
Brian Controls
Transcat
Sarnia Piping Specialties
Floval Equipment Ltd.
Alpha Controls & Instrumentation
Sarnia Piping Specialties
Axiom Technologies Ltd.
Regional Process Equipment
Cantech Controls
Axiom Technologies Ltd.
Huron Valve & Fittings
Heaters Controls & Sensors Ltd.

- Notes -

**"This space is available
for single issue advertising, ₹200.00.
Contact Newsletter Team for Details."**

Past-Presidents of the Sarnia Section of I.S.A.

| | | | |
|---------|-------------------|---------|----------------|
| 1946/47 | Bill Graeb | 1971/72 | Curt McDonald |
| 1947/48 | Amby Upfold | 1972/73 | Everett Maness |
| 1948/49 | Ron Chamberlane | 1973/74 | Stan Thrift |
| 1949/50 | Don Livingstone | 1974/75 | E. A. Comello |
| 1950/51 | Amby Upfold | 1975/76 | Bernard West |
| 1951/52 | Ken Goldring | 1976/77 | Jim Henrikson |
| 1952/53 | Amby Upfold | 1977/78 | Jim Johnson |
| 1953/54 | Warren McKay | 1978/79 | Ron Thurier |
| 1954/55 | Jack Heatley | 1979/80 | Dave Braedley |
| 1955/56 | Larry Hall | 1980/81 | John Stassen |
| 1956/57 | Harold Kohlmeier | 1981/82 | Wayne Jamieson |
| 1957/58 | Ron Asselstine | 1982/83 | Frank Bandura |
| 1958/59 | Mike Hicks | 1983/84 | John Tranter |
| 1959/60 | Mike Hicks | 1984/85 | Robb Sharp |
| 1960/61 | Mike Hicks | 1985/86 | Ron Kells |
| 1961/62 | George Mills | 1986/87 | Howie Whitton |
| 1962/63 | Robert Brayne | 1987/88 | Joe Lobo |
| 1963/64 | Robert Newman | 1988/89 | Irvin Hawkes |
| 1964/65 | Robert Newman | 1989/90 | Rich Patterson |
| 1965/66 | Ted Stock | 1990/91 | Ken Blair |
| 1966/67 | Ted Stock | 1991/92 | Jim Lomax |
| 1967/68 | Bill Rion | 1992/93 | Bob Kelly |
| 1968/69 | Bud Dodds | 1993/94 | Bill Arundell |
| 1969/70 | Ray Wechselberger | 1994/95 | Larry Corbett |
| 1970/71 | Bill Glendon | | |

FISHER®

CONTROL VALVES - Globe and rotary

Noise and cavitation reduction control valves

Actuators and positioners - pneumatic, electric electro-hydraulic

REGULATORS - Steam, gas and liquids - tank blanketing

Process Instrumentation:

- Electronic and pneumatic controllers
- FIELDVUE - smart field devices

CON-TEK - Steam Conditioning Valves and Desuperheaters

BAUMANN - Control Valves and Control Equipment

- General purpose control valves
- Corrosion resistant valves
- Low flow control valves

FISHER SERVICE

- Valve repairs, factory and site
- Maintenance and shut-down management
- Diagnostics for pneumatically operated valves
- Start-up assistance

FISHER-ROSEMOUNT

PRÖVOX® distributed control systems and Rosemount System 3™

- SERVICE:
- Engineering and project management
 - Installation and start-up assistance
 - System life management

GO®
SWITCH

- Proximity limit switches

graham


- Steam surface condensers
- Steam jet ejectors
- Heliflow heat exchangers

 **LAKESIDE**

Lakeside Process Controls Ltd.

581 Vidal Street South, Sarnia, Ontario, N7T 2V8

Phone: (519) 332-2300 Fax: (519) 332-6640

“Superior Service Supporting You”