

# ANNUNCIATOR

MAY 1997



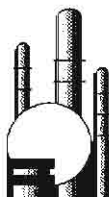
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**ADVERTISERS:** Please note that the deadline for the JUNE ANNUNCIATOR is June 15, 1996. Please forward information to the editor by that date in order to have items updated.

**THE DINNER MEETINGS FOR THE 1996/97 SEASON  
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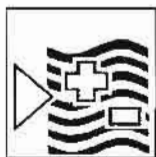
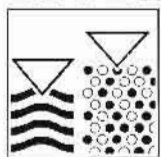
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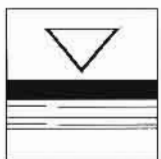


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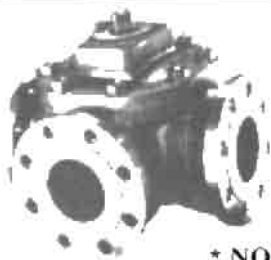
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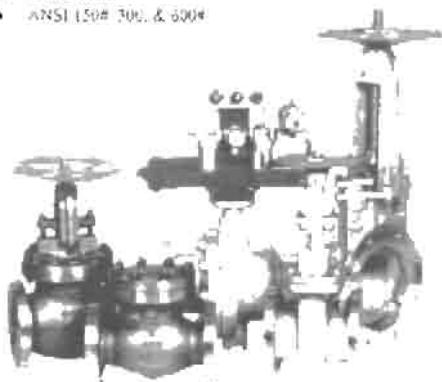
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# President's Message



May, this is the month for renewal. It is the time to get the golf clubs out and practice the swing, the chipping and the putting. For the sailor members it is also time to check the boat, paint, fix, patch, mend and put the boat into operation for the cruising season. For the gardeners it is time to rake, prepare the flower beds, sow the garden and flowers and beautify the yard. This is also the time for the ISA Executive to review the membership list and contact members who will be potential executive members. Unfortunately some of the Executive are leaving due to personal reasons and we need to fill the vacancies, should you

be contacted to help, please give it your most serious consideration. Where can you serve to help in the promotion of measurement and control and also develop the art of leadership. Serving the ISA section.

As I reflect over the past year I am proud of the achievements we have made. The golf tournament, the show, the student support to attend the World competition in Chicago, the seminars, the community donations, the meeting programs, and the Annunciator have all been a success and we should all be proud of the work and time spent by the various committees for making these achievable.

This month I attended the District 13 workshop, with Mike Murray your delegate, in Halifax. The attendance in the district was very good, only Quebec and Saguenay sections were not present. The Halifax hospitality was excellent and the sessions were good and lively. I was involved in presiding over the Membership Recruitment campaign and of which more details will be mentioned in our Annunciator. It was interesting to note what District 13 has done to promote our Internet Page - [isaca.com](http://isaca.com) - this is the page for all the Canadian ISA Sections. Take the time and visit the web page. The executive is investigating in signing on to the Canadian Web Page and participating with our Canadian Sections.

This will be my last message as your President and it would not be proper for me to not acknowledge the people and the committee members who have helped to make this a real successful year. It will be my pleasure to give out the awards to these persons at our May 26 meeting. This year we will be presenting Senior members pins to all the Senior members in attendance and Past President pins as well as special awards to the executive, the golf and show committee members.

I am looking forward to seeing all of you at the May 26 meeting. Don't forget to confirm your attendance with Gail and Maureen as we want to have a seating reserved for you and your spouse or guest.

Regards,

Randy Dennie, *President*

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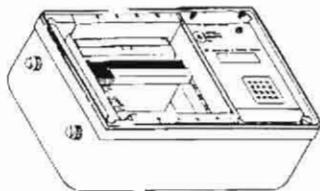
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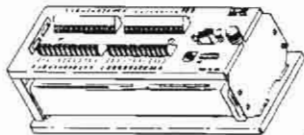
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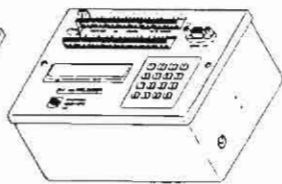
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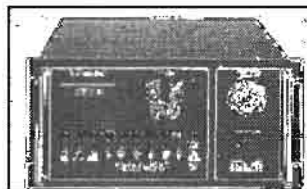
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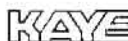
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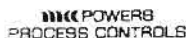


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# Membership Campaign

To understand what this campaign is all about we need to review some of our membership statistics. In District 13 our membership status is as follows:

	May 1996	March 1997	% Change
<b>Regular Members</b>			
12 month period	1743	1687	-3.21
15 month period	1870	1796	-3.96
<b>Student Members</b>			
12 month period	332	344	+3.61
15 month period	386	392	+1.55
<b>Total Members:</b> (includes Students)			
12 month period	2075	2031	-2.12
15 month period	2256	2188	-3.01

As you can see from the above table our membership is dropping. Our section has the similar pattern therefore these are not only indicative of what is happening in our section or the district or the whole membership. Membership is every ones responsibility and to help us overcome this deficit in membership ISA is promoting a REWARD FOR RECRUITING MEMBERSHIP CAMPAIGN.

This campaigns objectives are as follows:

- to acquire additional members
- to improve the retention
- to encourage individual involvement in membership recruitment
- to recognize the individual, the section and the employer

The Campaign begins on June 1, 1997 and will run for the year and begin again on June 1, 1998. Only regular members will be eligible to participate. Students are not included in this campaign. Credit will only be given for recruiting a new "regular" member and the rewards for recruiting a member will be as follows:

- recruit 1 new member achieves an ISA leather with brass logo key holder
- recruit 5 new members achieves an ISA brass letter opener
- recruit 10 new members achieves an ISA leather and brass coaster set
- recruit 25 new members achieves an ISA leather computer disk holder
- recruit 50 new members achieves an ISA deluxe leather portfolio

As a bonus, an annual draw will be made at the Winter President's meeting and the individual will be given many chances to win as he recruits more members.

When a member recruits 1 member he will have one entry chance, if he recruits 2 additional members he will now have three entry chances (1+2) should he recruit 3 additional members he will now have 6 entries (3+3) and the amount of chances increases as he recruits more entries.

The winner from the draw will receive 1 computer, the winner's section will get \$250 and the winner's employer will get an ISA Standards Library.

Recruiting a new member is not difficult, simply ask a prospective member to join. When was the last time you asked some one to join. Start off the campaign with a goal.



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

**Date:** Friday, June 20, 1997

**Place:** St. Clair Parkway

**Cost:** \$50.00

**Tee Off:** 7:30 a.m.



Your Executive wishes to provide a fun day for all members and potential members with our third annual 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 they become available. Mark down the date and let's make this years tournament a great success.

# ISA Sarnia Section "Dinner Meeting Notice"

Monday, May 26, 1997

*Sarnia Golf & Curling Club*

500 Errol Road West, Sarnia

Phone: (519) 336-2201

Cocktails 6:00 p.m. Dinner 7:00 p.m.

*All Guests are Welcome!*



## **GUEST SPEAKER**

*Brian Cunliffe, RBC DOMINION SECURITIES, INC.*

*Topic: INEVITABLE SURPRISES*

*Also... Recent Past Presidents will be presented with their Past President's Pins. The tradition of recognizing outstanding contributors shall also be a highlight at our Annual Awards Night.*

## **M • E • N • U**

### **SURF & TURF**

Tossed Salad

4 oz. Lobster & 8 oz. Steak  
Roasted Potatoes & Sugar Snap Peas

Black Forest Cake



### **NOTE: KINDLY BOOK BEFORE DEADLINE INDICATION**

*Please phone in your reservation by Thursday, May 22*

*to either Gayle at Provincial Controls... 336-7301*

*or Maureen at Willer Engineering... 336-3006*

**Members \$10 • Guests \$15**

**Note:** ALL Members and guests are requested to reserve in advance.  
Please oblige... we need your support to plan your evening!

# Meeting Dates

## EXECUTIVE MEETING

## TURNOVER MEETING

Date	Time	Place
July 7, 1997	6:00 p.m.	Sarnia Golf and Curling Club

### **Now Hear This!!!**

**The date and time for our turnover meeting has been changed.  
It will now be July 7th, 1997 at 6:00 p.m.**

This is the dinner meeting where the out-going Executive Members have the opportunity to welcome, socialize and network with all the energetic and enthusiastic incoming executive members. Andy Tucker, your President-Elect, as well as all current Executive members, are anxiously awaiting to hear from members who are interested in becoming an Executive Member. Don't hesitate because your section requires your help and participation.

## MEMBERSHIP DINNER MEETING

## AWARDS / RECOGNITION NIGHT

Cocktails at 6:00 p.m. Dinner at 7:00 p.m.

Held on the Last Monday of the following month:

Date	Place
May 26, 1997	Sarnia Golf and Curling Club

# Dinner Meeting Comments

Ed Chovanec, Regional Sales Manager for Fike Canada, Inc., presented an interesting rupture disc overview at our March 31, 1997 Dinner Meeting. His Informative address covered operating ratio, range, rupture tolerance to disc styles available. The topic of where to use a disc instead of a valve was also discussed in a clear and concise manner.

## *Upcoming Dinner Meeting Guest Speaker Information*

Our guest speaker at our May 26, 1997 Dinner Meeting is Brain J. Cunliffe, Vice-President of RBC Dominion Securities Inc. His message will provide statistics to support the changes that we are experiencing were predictable. Yes, the changes in the economy and investment markets have indeed been very surprising but actually demographics, politics and interest rate studies will demonstrate future trends.

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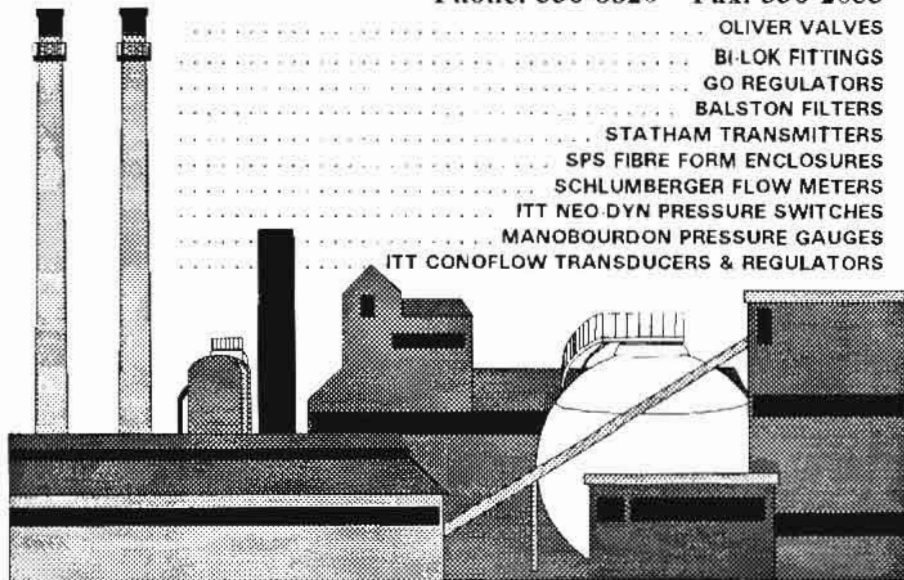
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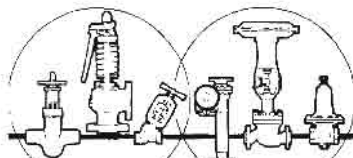
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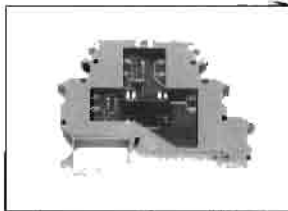
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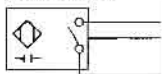


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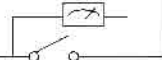
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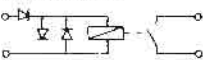
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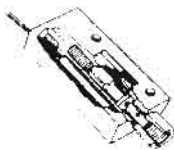
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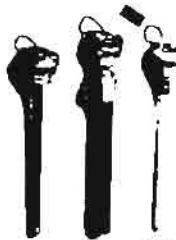
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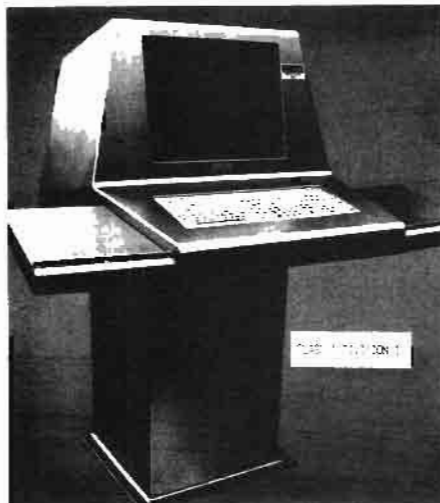
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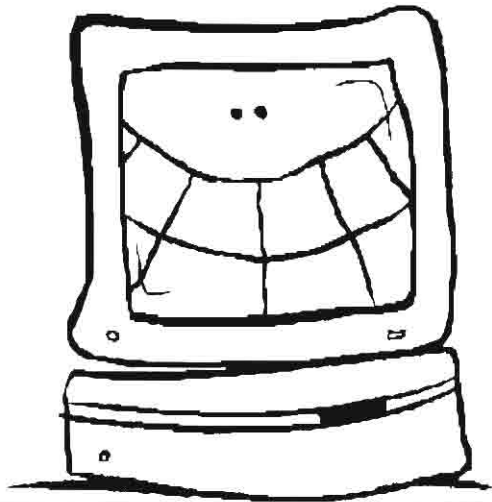
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The Sarnia Section Home Page can be found at:  
<http://www2.ebtech.net/~bsmith/isasarni.html>

## SARNIA SECTION BBS UPDATE

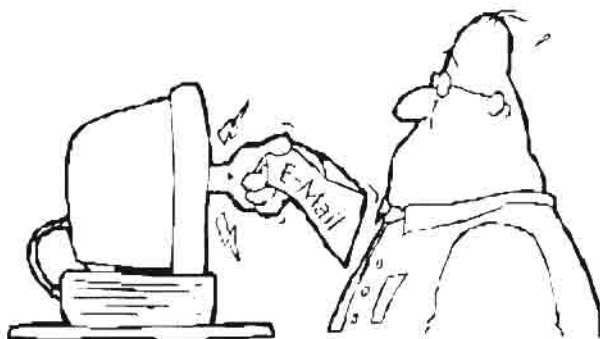
As of April 20th the BBS has received 1610 calls. There have been 556 messages in the Main Board conference, 1332 downloads and 35 uploads. There have been six new callers since the last report. If you are looking for a copy of the latest Internet WWW Browser from Netscape or Microsoft call the BBS and download it for free. There are also copies of other popular Internet programs plus copies of Instrument Sizing and selection programs. The BBS phone number is (519) 541-0427.



# *Encoding & Decoding Internet E-mail Binary Files*

Have you ever wanted to attach a file to an e-mail message? This is becoming a popular way of sending small and large files via the Internet.

Binary files cannot be sent directly as attachments to e-mail messages because e-mail is restricted to ASCII text characters. All binary files must be converted or encoded to ASCII text file format. If they are not converted



you will only receive the binary file in ASCII format which will be unusable.

There are a number of Internet protocols that can be used to convert binary files. The most popular is MIME (Multi-purpose Internet Mail Extensions) which supports a number of binary formats. The second most popular is UUencode/UUdecode which works with all types of binary files. The SAME standard must be used by both sender and receiver of the file.

To send a binary file (Word document, Excel spreadsheet, Powerpoint slide, Cadd drawing) to an e-mail address is simple as long as you are both using the same e-mail program. Eudora supports two conversion protocols, MIME and Bin/Hex. Select MIME, send an e-mail message and attach the file. See the attached page from Learning the Net about attaching files. The file attachment will be converted and put in the specified directory (usually C:\Internet\Eudora\Mail\ on the recipients hard drive. Netscape Mail supports MIME and UUencode/Decode. Check which protocols are supported by the e-mail program you use.

When sending binary files across the Internet both sender and receiver may not be using the same e-mail program. That's OK but they must both have access to the same protocol. Check the recipient to find out what protocol is available (it may be built into their e-mail program). Internet e-mail servers must also support the MIME protocol if used. There are programs available, like Wincode, that will do the UUencode/UUdecode step independent of your e-mail program.

For more information about E-mail and attaching files see the web page at:  
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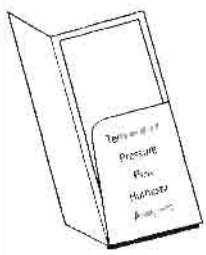
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- Name must be submitted to the District Nominating Committee by August 5, 1997.
- Independent nominations must be submitted by September 4, 1997.
- Election Call to all Delegates with list of nominees by September 13, 1997.
- **Election** at Fall District Meeting during President's Fall meeting October 4-6, 1997.

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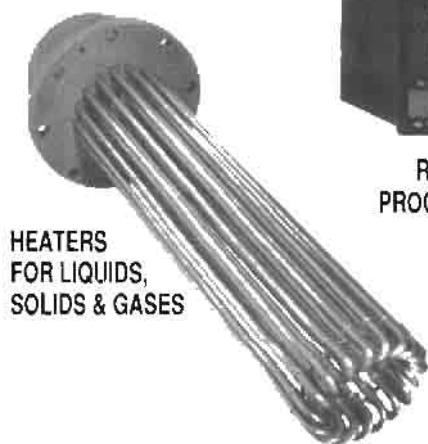
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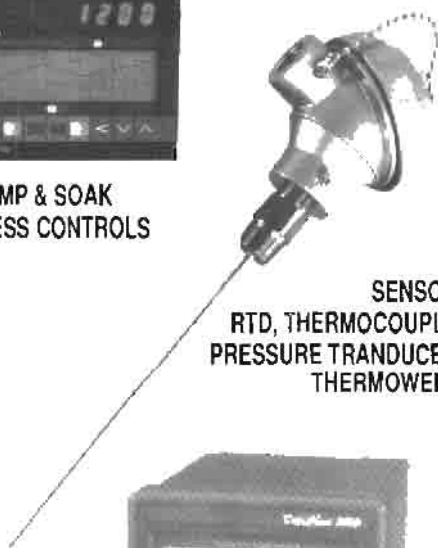
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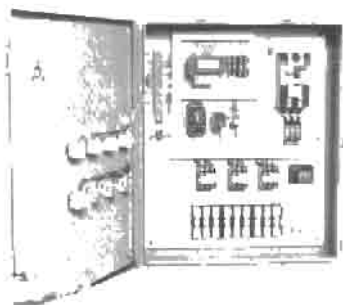
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# *Technology Exchange* **AUTOMATION LIFE CYCLE KEY TO EFFICIENCY**

*By David Adler*

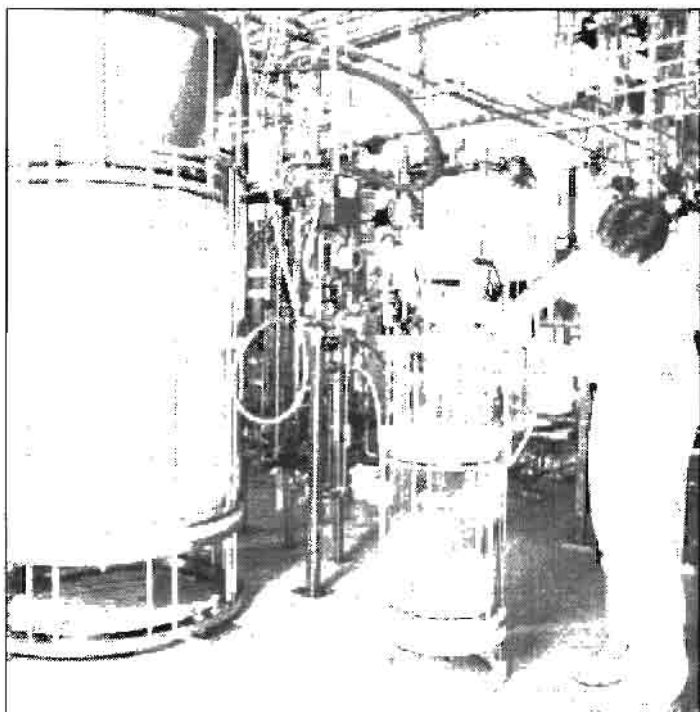
**Research Triangle Park, N.C. -** Businesses today are under constant pressure to make their manufacturing processes more efficient, increasing productivity while maintaining or reducing cost. At Eli Lilly and Company, a leading pharmaceutical and biotechnology company, we recognize the

power of control and information technologies to help us produce low-cost, high-quality, and regulatory-compliant products.

Throughout the enterprise, these technologies provide the consistency, repeatability, and continuous improvement that give manufacturing a strategic advantage.

Peter Drucker, noted author on productivity, said "The current emphasis on

reengineering essentially means changing an organization from the flow of *things* to the flow of *information*." Integration of factory-floor automation with business enterprise systems is key to this flow of information. Automation professionals must not only design and implement control solutions, but also manage information. The newly formed ISA



*Chromatography columns purify Humulin, Eli Lilly and Company's biosynthetically produced human insulin, at their Indianapolis bulk manufacturing facility.*

## **AUTOMATION LIFE CYCLE KEY TO EFFICIENCY (Con'd)**

SP95 Enterprise/Control Integration Committee will define the interface between control systems and business enterprise systems.

Today, management will not spend more to improve the enterprise and create a strategic advantage. Instead, they seek technological solutions that return increasing benefit to the enterprise with fewer personnel and less cost. Thus, automation professionals and manufacturing executives must understand productivity enhancements.

### **Analyzing automation life cycle**

In the past, manufacturing companies viewed control systems as one-time project purchases. Today, these companies recognize that automated facilities must be designed to last while still being flexible enough to adapt to new, unanticipated purposes. Automation professionals acknowledge the existence of an automation life cycle and work to find ways to optimize benefits at each step in that life cycle. Because of this, at Lilly automated facilities designed in the 1970's are still operating.

Life-cycle analysis is an important tool in evaluating automation investment because it allows the automation professional to learn from the past to improve the future. One life-cycle model from Rockwell Automation defines six stages of an automation investment life-cycle: justify, apply, install, operate, maintain, and improve.

On average, the investment in automation during the first half of the life-cycle (justify, apply, and install) is only 40% of the total life-cycle investment. The remaining 60% is devoted to the second half of the life-

cycle (facility operation, maintenance, and improvement). At Lilly, life-cycle analysis identified key factors to reduce the cost and enhance automation benefits in our facilities. These factors included better use of standards, models, CASE tools, and software metrics.

One of these factors, for example, is standardization. In the pharmaceutical industry, material is usually produced in batch equipment. During the past 20 years, every new vendor product or project defined batch processing with slightly better, but different, terminology. Until recently, there was no common language to describe batch process control. In 1995, the ISA SP88 Batch Control Committee approved a standard terminology for batch processing and a set of control concepts and structures. The physical model of the S88.01 standard consists of seven areas: enterprise, site, area, process cell, unit, equipment module, and control module. After implementing the first several standard equipment modules at Lilly, the software cost for the next equipment modules would be less than 5% of the initial cost. When all vendors supply integrated applications using this standard, control software development productivity will be significantly enhanced.

Still, while these technology-based approaches are neither new nor highly technical, their consistent implementation over a long life-cycle has been a challenge for most manufacturing companies. Successful implementation demands skilled determination of hard-working and well-trained automation professionals.

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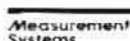
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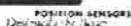
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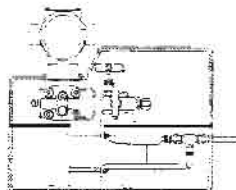
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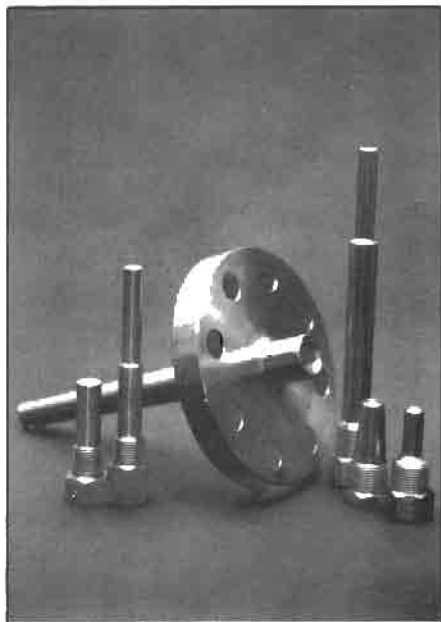
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# NEWS RELEASE

## **MOORE PRODUCTS CO. (CANADA) INC.**

Moore Products Co. (Canada) Inc. is showcasing a full suite of native 32-bit Windows NT and Windows 95 based products for the APACS® Process Control Systems and the QUADLOG™ Safety PLC™ including:

- New Version 4.0 of MYCROADVANTAGE™ Operator Interface Software
- New Version 4.0 of 4-mation™ Configuration Software
- New Version 4.0 DDE Server
- New Version 4.0 API Tool Kit

The above NT applications were developed in response to market demand for a robust operating system with industry standards and usability inherent to the Windows format. However, they also remain available in their 16-bit versions for Windows 3.11 and Windows 95.

## **Regional Process Equipment**

Regional Process Equipment is the largest stocking distributor of Wika Gauges in Southwestern Ontario, now serving the Windsor area. For further information please contact our office at 777 Campbell St., Unit 2, Sarnia, Ontario

(519) 337-7758 or Fax (519) 337-7933

## **Regional Process Equipment**

Regional Process Equipment is pleased to announce Stephanie Carr as the newest member of our team. Stephanie will be managing our inside sales/order desk, and looks forward to speaking with all our customers.

She can be reached at (519) 337-7758 or at [www.xcelco.on.ca/~Regional](http://www.xcelco.on.ca/~Regional).

## **Regional Process Equipment**

Regional Process Equipment is now part of the Web. Look for our new Home Page for all your instrumentation and process needs at [www.xcelco.on.ca/~Regional](http://www.xcelco.on.ca/~Regional).

# New Advertisers

The Annunciator is pleased to announce the following new advertisers:

ICS - Triplex ..... Page 50

# 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 \_\_\_\_\_ Title \_\_\_\_\_  
 Company Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/State/Zip \_\_\_\_\_  
 Telephone \_\_\_\_\_  
 Fax \_\_\_\_\_  
 E-mail \_\_\_\_\_  
 Website \_\_\_\_\_  
 Street Address (not Box) \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Postal Code \_\_\_\_\_  
 Country \_\_\_\_\_  
 Have you ever been a member of ISA?  Yes  No Previous years of membership \_\_\_\_\_  
 Are you a member of the \_\_\_\_\_ section of the ISA in your home address?  
 If yes, what is the name of the section? \_\_\_\_\_  
 What is your educational degree earned? High School Associate Bachelor Master Doctorate  
 Are you a master's or professional graduate? Yes No State/Country Registered \_\_\_\_\_  
 I agree that the items may make some of my products or services ineligible for you. If you do not wish your name to be used for these purposes, please check the box.   
 We will respect your wishes.

**2**

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

Check your primary job function

A. Business/Corporate Management  
 B. Control Systems/Process Control  
 C. Design/Engineering  
 D. Product Development  
 E. Instrumentation/Measurement  
 F. Maintenance/Operations  
 G. Process Automation/Systems  
 H. Scientific/Industry  
 I. Manufacturing/Production/Operations  
 J. Instrumentation/Measurement  
 K. Instrumentation/Measurement  
 L. Control Systems  
 M. Instrumentation/Measurement  
 N. Instrumentation/Measurement  
 O. Instrumentation/Measurement  
 P. Instrumentation/Measurement  
 Q. Instrumentation/Measurement  
 R. Instrumentation/Measurement  
 S. Instrumentation/Measurement  
 T. Instrumentation/Measurement  
 U. Instrumentation/Measurement  
 V. Instrumentation/Measurement  
 W. Instrumentation/Measurement  
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 Y. Instrumentation/Measurement  
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**3**

Signature \_\_\_\_\_  
 Date \_\_\_\_\_

**5**

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Please select the level of membership you wish to join:  
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 (Must be an American)  
 Total Amount Due \$ \_\_\_\_\_  
 Annual ISA dues include a subscription to **INTECH**, the world's premier instrumentation journal of \$600\* (single copy \$120) and **ISA TODAY**, the industry's leading journal.  
**Note:** \*For those who do not reside in the US, the dues are in US dollars and should be paid in US currency only. To pay dues in other currencies, see local rates below.  
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**4**

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 (K) Construction and Design\* (X) Water & Wastewater Industries\*  
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 (J) 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.

Division Enrollment — Also enroll me at \$45.00 each in the Divisions checked below. To join Divisions, you must also enroll as a regular or student member.

# 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. H. Emery  
A. S. I.  
A. W. Sperry  
ACR Systems  
AD Technologies  
ADI  
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AFE Technologies Inc.  
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Alltemp Sensor RTO/TC/Wells  
Alnor  
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American  
Ametek  
Ametek  
Ametek - Analyzers  
Ametek Gauges  
Amiad  
Amot  
Amot Controls  
Amprobe  
Analogic  
Anderson Greenwood  
Annubar/DSC  
Apical Charts  
Apollo  
Appalachian Controls  
Armatek  
Armstrong  
Armtec Industries  
Ascoelectric  
Ashcroft  
Ashcroft  
Ashford Valve  
Astro  
Atkins  
Atlantic Group Inc.  
Atomac Ball & Check Valves

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Romatec  
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Syber Systems Inc.  
Westburne Lytle  
Transcat  
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Durham Instruments  
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Transcat  
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CTH Industrial Controls  
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Lisle-Matrix Ltd.  
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Brian Controls  
Brian Controls  
Willer Engineering  
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Summit Controls Ltd.  
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Cambridge Controls  
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Sarnia Piping Specialties  
Zircol Ltd.  
Milltronics Limited  
Transcat  
Westech Industrial Ltd.  
Provincial Controls  
Tubetech Ltd.  
Baker Instruments Ltd.  
Transcat  
Alpha Controls & Instrumentation  
Transcat  
Axiom Technologies Ltd.  
Brian Controls  
Transcat  
Westech Industrial Ltd.  
Hardie Industrial Services Inc.  
Flovat Equipment Ltd.  
Great Lakes Industrial Controls  
Controls  
Transcat  
Transcat  
Cantech Controls  
Flovat Equipment Ltd.  
Provincial Controls  
Romatec  
Controls  
Armatek Controls  
Willer Engineering  
BEP Bestobell Canada Ltd.  
Flovat Equipment Ltd.  
Romatec  
Transcat  
BEP Bestobell Canada Ltd.  
Prosigma Analytics Inc.  
Transcat  
Controls  
Sarnia Piping Specialties

**Manufacturer / Tradename**

Aurora  
Autotech  
Azonix  
B & K  
B.N.W.  
BEHA  
BEI  
BJ Software  
BLH Electronics  
BOILER-GARD  
BOMEM  
BS & B  
BTG Inc.  
BTG Polymetron  
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Backos  
Badger Meter  
Badger Meter  
Bailey  
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Baldwin Environmental Inc  
Balluff  
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Barber-Colman  
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Beamex  
Bebco Industries  
Beckman Industrial  
Bellofram  
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Biccotest  
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Bio-Tek  
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Cashco Canada, Inc.  
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Cellex  
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**Local Sales Representative**

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Transcat  
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Transcat  
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Romatec  
Summit Controls Ltd  
Prosigma Analytics Inc.  
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Summit Controls Ltd.  
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Tubetech Ltd.  
Novatech  
Davis Controls  
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Tubetech Ltd.  
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Armatek Controls  
Lakeside Process Controls  
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Controls  
Transcat  
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BEP Bestobell Canada Ltd  
BEP Bestobell Canada Ltd  
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Transcat  
Sarnia Piping Specialties  
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Transcat  
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Willer Engineering  
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Cancoppas Limited  
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Great Lakes Industrial Controls  
Armatek Controls  
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Controls  
Cantech Controls

## Manufacturer / Tradename

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Century Valve  
Cerabar  
Chandler  
Chatham Controls  
Checkpoint Systems  
Chemical Systems  
Chemline  
Chemtrol  
Chemtrol  
Chessel  
Chessel  
Clif Mock  
Colder  
CompuFlo III  
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Con-Tek  
Conant Controls Inc.  
Conant Valves  
Conders  
ConneXI  
Consolidated  
Consolidated Controls  
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Control Microsystems  
Controlair  
Controlair Inc.  
Cooper Instruments  
Cosa  
Cosa  
Crowcon  
Crowcon Gas Detection  
Custom Control Sensors  
Cutler-Hammer  
Cybex  
DATATEST  
DGH  
DPL Plus  
Dahl  
Danaher Controls  
Danfoss  
Danfoss Mfg. Co. Ltd. - Denmark  
Daniel Industries  
Data Industrial Corporation  
Data Precision  
Datel  
Davis Instruments  
DeZurik  
Defelsko  
Delavan  
Delphian  
Delta F Corporation  
Delta-M  
Deltabar  
Deltacon  
Deltapilot  
Deltavalve  
Detector Electronics (Detronics)  
Devar  
DewPro  
Dewrance  
Dianachart  
Dickson  
Digitec  
Digitec  
Dixon Inc.  
Dopak  
Dover Gas Technologies  
Dow Plastic Lined Piping Products  
Drainall  
Druck  
Ducon Environmental Systems

## Local Sales Representative

Sarnia Piping Specialties  
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Cantech Controls  
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WESCO  
TubeTech Ltd.  
Willer Engineering  
Westburne Lytle  
Davis Controls  
Milltronics Limited  
CB Engineering  
Lakeside Process Controls  
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Provincial Controls  
Transcat  
CTH Industrial Controls  
Contro Valve Inc.  
Transcat  
Willer Engineering  
Brian Controls  
WESCO  
Cambridge Controls  
Transcat  
Brian Controls  
Industrial Technical Services  
Cancoppas Limited  
Regional Process Equipment  
Willer Engineering  
WESCO  
CB Engineering  
R.A. Kirby Sales Inc.  
Alpha Controls & Instrumentation  
Milltronics Limited  
Armatek Controls  
J & M Engineering & Sales Ltd.  
Davis Controls  
Lisle-Metrix Ltd.  
Controls  
Cambridge Controls  
Transcat  
Transcat  
Transcat  
Floval Equipment Ltd.  
Transcat  
Armatek Controls  
Romatec  
Prosigma Analytics Inc.  
Brian Controls  
Endress + Hauser  
CTH Industrial Controls  
Endress + Hauser  
Summit Controls Ltd.  
CB Engineering  
Cantech Controls  
Endress + Hauser  
Contro Valve Inc.  
Alpha Controls & Instrumentation  
Transcat  
Brian Controls  
Durham Instruments  
CTH Industrial Controls  
Westburne Lytle  
Veronics  
Sarnia Piping Specialties  
Great Lakes Industrial Controls  
Transcat  
R.A. Kirby Sales Inc.

**Manufacturer / Tradename**

Durakool  
Duro Sense  
Dwyer  
Dwyer  
Dwyer  
Dwyer  
Dwyer DP Gauges/Switches  
Dylon  
Dynapar  
E.G. & G. Chandler  
ECD  
ECD  
ECOM America Ltd.  
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EG & G Flow Technology Inc.  
EIT  
EMCO  
ENU  
ETC  
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Elasto-Valve  
Eldridge  
Electromatic  
Electromatic  
Elremco Timers - England  
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Elsag Bailey Analytical Division  
Enardo  
Encoder  
Endress + Hauser  
Enerrol Shock Absorbers  
Enerrols  
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Enraf Inc  
Environmental Technologies Group Inc.  
Epic  
Erdco  
Erhard Valves - Germany  
Ernst Flow & Level  
Euchner  
Eurotherm  
Eurotron  
Exergen  
Exotherm  
Expertune  
Expo Safety Systems  
F.B. Leopold - USA  
F.W. Bell  
F.W. Murphy  
FCI  
FPP  
F.U.J.I.  
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Farris  
Farris Relief Valves  
Fieldview  
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Fischer & Porter  
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Fisher Research  
Fisher Service  
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Flow Meter Co. - England  
Flow Research  
Flow-Tek  
Flowdata Inc

**Local Sales Representative**

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Cantech Controls  
Davis Controls  
Transcat  
Provincial Controls  
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Davis Controls  
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Novatech  
Transcat  
R.A. Kirby Sales Inc.  
Westech Industrial Ltd  
CB Engineering  
Novatech  
Davis Controls  
Durham Instruments  
Transcat  
Davis Controls  
Cantech Controls  
Milltronics Limited  
Provincial Controls  
Westburne Lytle  
WESCO  
Cancoppas Limited  
Davis Controls  
Heaters Controls & Sensors Ltd  
Lisle-Metrix Ltd.  
Tubetech Ltd  
Prosigma Analytics Inc.  
Zirco Ltd  
Axiom Technologies Ltd  
Regional Process Equipment  
Provincial Controls  
Axiom Technologies Ltd.  
Westburne Lytle  
Willer Engineering  
Novatech  
Cancoppas Limited  
BEP Bestobell Canada Ltd.  
Lisle-Metrix Ltd  
Provincial Controls  
Davis Controls  
Heaters Controls & Sensors Ltd.  
Industrial Technical Services  
Heaters Controls & Sensors Ltd.  
Heaters Controls & Sensors Ltd  
Summit Controls Ltd  
Syber Systems Inc.  
Lisle-Metrix Ltd.  
Transcat  
Cantech Controls  
Willer Engineering  
Cancoppas Limited  
Heaters Controls & Sensors Ltd.  
Regional Process Equipment  
Floval Equipment Ltd  
Provincial Controls  
Lakeside Process Controls  
Sharp Valve & Instrumentation  
Brian Controls  
Elsag Bailey  
TubeTech Ltd  
Lakeside Process Control  
Transcat  
Lakeside Process Controls  
Lakeside Process Controls  
Lisle-Metrix Ltd.  
Floval Equipment Ltd.  
Summit Controls Ltd.  
J & M Engineering & Sales Ltd

**Manufacturer / Tradename**

Fluid Data/Amcor  
 Fluke  
 Foxboro  
 Foxcroft  
 Fuji  
 Fuji Electric  
 Fulier  
 G.H. Flow  
 G.W. Dahl  
 GASCO  
 GGOSCO Needle Valves  
 GGOSCO Valves

**Local Sales Representative**

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 Transcat  
 Spec Sarnia Limited  
 Cancoppas Limited  
 Industrial Technical Services  
 WESCO  
 Syber Systems Inc.  
 Cantech Controls  
 Armatek Controls  
 Novatech  
 Westburne Lytle

**Manufacturer / Tradename**

LEOPOLD  
 LFE Instruments - USA  
 LI-COR  
 LMI  
 LMI  
 Land  
 Larad  
 Laurence  
 Leader  
 Leaderline  
 Lee-Dickens Ltd. - England  
 Legris  
 Leine & Linde  
 Lenord + Bauer  
 Leslie  
 Lewis  
 Limitorque  
 Liquid-O-Ring  
 Liquiphant  
 Logic Beach  
 Love  
 Lucas Novasensor  
 Lumenite Electronic Company  
 M & C Products  
 M point  
 M-Tek  
 M.T.S.  
 MCS  
 MDA Scientific  
 MDI  
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 MTL  
 MTL Intrinsic Safe Barriers  
 MacWeld  
 Madison  
 Madur Electronics  
 Magnetrol  
 Magnetrol Level & Flow  
 Maihak  
 Major  
 Manobourdon  
 Marine Moisture Co.  
 Martel  
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 Measurement Systems  
 Meeco Inc.  
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**Local Sales Representative**

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 Lisle-Metrix Ltd.  
 Campbell Scientific (Canada) Corp.  
 Novatech  
 U & I Supply  
 Transcat  
 Syber Systems Inc.  
 Great Lakes Industrial Controls  
 Transcat  
 Honeywell  
 Lisle-Metrix Ltd.  
 Axiom Technologies Ltd.  
 Durham Instruments  
 CTH Industrial Controls  
 Great Lakes Industrial Controls  
 Transcat  
 Sharp Valve & Instrumentation  
 Great Lakes Industrial Controls  
 Endress + Hauser  
 Durham Instruments  
 Davis Controls  
 Durham Instruments  
 J & M Engineering & Sales Ltd.  
 CEM Specialties Inc.  
 Endress + Hauser  
 Transcat  
 R.A. Kirby Sales Inc.  
 Heaters Controls & Sensors Ltd.  
 Westech Industrial Ltd.  
 Heaters Controls & Sensors Ltd.  
 Transcat  
 Syber Systems Inc.  
 Provincial Controls  
 Heaters Controls & Sensors Ltd.  
 BEP Bestobell Canada Ltd.  
 Novatech  
 Fival Equipment Ltd.  
 Provincial Controls  
 Westech Industrial Ltd.  
 Alpha Controls & Instrumentation  
 Sarnia Piping Specialties  
 R.A. Kirby Sales Inc.  
 Transcat  
 Contro Valve Inc.  
 Durham Instruments  
 Willer Engineering  
 Brian Controls  
 Brian Controls  
 Transcat  
 Durham Instruments  
 Novatech  
 Davis Controls  
 Transcat  
 Brian Controls  
 Armatek Controls  
 Campbell Scientific (Canada) Corp.  
 Transcat  
 Lisle-Metrix Ltd.  
 Westech Industrial Ltd.

**Manufacturer / Tradename****Local Sales Representative**

Mini-X Purge Systems	Syber Systems Inc.
Mini-Z Purge Systems	Syber Systems Inc.
MiniRanger Plus	Milltronics Limited
Mitac	CTH Industrial Controls
Mitsubishi	Davis Controls
Mobrey	BEP Bestobell Canada Ltd.
Molecular Analytics LLC	Novatech
Monarch	Transcat
Monitek	Willer Engineering
Monitor Labs	Brian Controls
Monitor Labs	Romatec
Moore	Moore Products Co. (Canada) Inc.
Moore Industries	Armatek Controls
Moore Products Pressure Regulators	Transcat
Mueller	Great Lakes Industrial Controls
Multi-Amp	Transcat
Multi-Volt	Transcat
MultiRanger Plus	Milltronics Limited
Multicap	Endress + Hauser
Multiglass	Great Lakes Industrial Controls
Mycro	Moore Products Co. (Canada) Inc.
Myron L	Transcat
NBS	Transcat
NGI	Transcat
NICE	Cancoppas Limited
Nassau Instrument	Transcat
Neles-Jamesbury	Summit Controls Ltd.
Neotronics	Cantech Controls
Neotronics	Transcat
Nif-Cor	Contro Valve Inc.
Nivocompact	Endress + Hauser
Nivosonic	Endress + Hauser
Norriseal Butterfly Valves	Sarnia Piping Specialties
Norstat	Davis Controls
Northern Vibrator	Floval Equipment Ltd.
Noshok	IMO Industries
Novatech Engineering Group	Novatech
Numatics	Axiom Technologies Ltd
Numatics Cylinders	Provincial Controls
Numatics F/R/Ls	Provincial Controls
Numatics Solenoid Valves	Provincial Controls
Nupro Valves	Huron Valve & Fittings
Nusonics	Armatek Controls
O'Brien Corporation	CB Engineering
OCM III	Milltronics Limited
OSI Semitronic	CTH Industrial Controls
Oakton	Transcat
Ogden	Durham Instruments
Ogden	Heaters Controls & Sensors Ltd
Ogoniz	Cantech Controls
Oilgear	BEP Bestobell Canada Ltd.
Oldham	Cantech Controls
Oliver Valves	Sarnia Piping Specialties
Omron	Axiom Technologies Ltd.
Optek	R.A. Kirby Sales Inc.
Orange Research DP Switch	Provincial Controls
Orion	Transcat
PCME	Westech Industrial Ltd
PGI	Regional Process Equipment
PGI Valves & Manifolds	Provincial Controls
PMV	Cancoppas Limited
PMV	Regional Process Equipment
PTC	Transcat
Pacer Industries	Transcat
Pamark Manifolds	Provincial Controls
Panalarm	Cambridge Controls
Panalarm	Willer Engineering
Panametrics PCI Division	Veronics
Papailias	Great Lakes Industrial Controls
Parker Hannifin	Tubetech Ltd.
Parflow	WESCO
Paul Mueller	Great Lakes Industrial Controls

**Manufacturer / Tradename**

Pelican  
Penberthy  
Penberthy Instruments  
Penny & Giles  
Penny + Giles  
Pepperl + Fuchs - USA  
Perma-Pure  
Perma-cal Gauges  
Phipps & Bird  
Phoenix Contact  
Pick Heaters  
Polymetron  
Polytronics  
Porter Instrument Co. - USA  
Powers Process Control  
Powers Process Controls  
Precision Digital  
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Precision Digital Corporation  
Preso  
Pribusin Inc.  
Pribusin Inc.  
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Promass  
Proquip  
Prosonic  
Protek  
Protimeter  
Provincial Instrument Enclosures  
Provox  
Prowirl  
Proximity Controls  
Pulsafeeder  
Purifics  
Pyromation  
QSDM  
QSDM  
Quad Tech  
Qualimetrics  
Quantum  
R.M. Young  
R.P. Adams  
RC Systems  
REBS  
REK RKC  
RGS  
RIMCO - Raingauges  
RIS  
Ralston  
Ralston  
Raychem  
Raytek  
Raytek  
Raytek  
Raytek/UE  
RdF  
Regal  
Research Control Valves  
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Rexcon  
Rexroth  
Rezplast  
Rochester Instrument Systems  
Rohrback Cosasco Systems  
Ronan  
Roper Pump  
Rosemount

**Local Sales Representative**

Transcat  
Brian Controls  
Hardie Industrial Services Inc.  
Cantech Controls  
Durham Instruments  
Lisle-Metrix Ltd.  
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Transcat  
Axiom Technologies Ltd.  
Sharp Valve & Instrumentation  
Prosigma Analytics Inc  
Transcat  
Lisle-Metrix Ltd.  
Heaters Controls & Sensors Ltd.  
CTH Industrial Controls  
Alpha Controls & Instrumentation  
Armatek Controls  
R.A. Kirby Sales Inc.  
Cambridge Controls  
Willer Engineering  
Novatech  
Provincial Controls  
Endress + Hauser  
Armatek Controls  
Transcat  
Endress + Hauser  
Westburne Lytle  
Endress + Hauser  
Spec Sarnia Limited  
Endress + Hauser  
Industrial Technical Services  
Alpha Controls & Instrumentation  
Provincial Controls  
Lakeside Process Control  
Endress + Hauser  
BEP Beestobell Canada Ltd.  
Romatec  
Great Lakes Industrial Controls  
WESCO  
Alpha Controls & Instrumentation  
Willer Engineering  
Transcat  
Transcat  
Transcat  
Campbell Scientific (Canada) Corp.  
Great Lakes Industrial Controls  
Cancoppas Limited  
Campbell Scientific (Canada) Corp.  
Heaters Controls & Sensors Ltd.  
Syber Systems Inc.  
Campbell Scientific (Canada) Corp.  
Transcat  
Axiom Technologies Ltd  
Transcat  
Great Lakes Industrial Controls  
Heaters Controls & Sensors Ltd.  
Transcat  
WESCO  
Great Lakes Industrial Controls  
Willer Engineering  
Cancoppas Limited  
Lakeside Process Control  
Sharp Valve & Instrumentation  
Axiom Technologies Ltd  
Great Lakes Industrial Controls  
Great Lakes Industrial Controls  
Sharp Valve & Instrumentation  
Armatek Controls  
Industrial Projects Ltd.  
U & I Supply  
Rosemount Instruments

**Manufacturer / Tradename**

Rosemount Analytical  
Rosemount Analytical  
Rosemount Combustion Control  
Rosemount RS3 Systems  
Rotomation  
Rotronic  
Rotronic  
Royce  
Rulfneck  
Rupture Pin Technology  
Rustrak  
S P S Instrument Services  
SOR Inc.  
SPL Plus  
SPM  
SPS Fibre-Form Enclosures  
SSI  
SSI Equipment  
STI  
Saab  
Saab Tank Radar Level  
Samson  
Schaevitz  
Schlumberger/Neptune Flow Meters  
Scientific Linings & Coatings  
Seacor  
Sealed Unit Parts  
Seametrics Inc  
Seaward  
Selco  
Senaco Plus  
Senior Flexonics  
Sensall  
Sensidyne Gas Monitors  
Sensit  
Sensortech Systems Inc  
Sensortronics  
Sensycon  
Sentry  
Serge-Baril  
Servomex  
Setra  
Stere  
Stere  
Shamrock Environmental  
Shan Rod Inc.  
Shand & Jurs  
Shimpo  
Showa  
Sieger  
Siemens  
Siemens Process Analyzers  
Sierra Monitor  
Signet Scientific  
Sigrist-Photometer Co - Switzerland  
Sifometer  
Simpson  
Sinclair Collins  
Skinner  
Smar  
Smartline  
Sno-Trak  
Sofartron  
Solighant  
Solomat  
South-West Meters  
Southwest Valve  
Sparling  
Staefa  
Stahl  
Statham  
StoneL

**Local Sales Representative**

Rosemount Instruments  
Transcat  
Romatec  
Lakeside Process Control  
Axiom Technologies Ltd  
Alpha Controls & Instrumentation  
Durham Instruments  
Cancoppas Limited  
Great Lakes Industrial Controls  
Zirco Ltd  
Transcat  
Sarnia Piping Specialties  
Industrial Projects Ltd  
Militronics Limited  
Transcat  
Sarnia Piping Specialties  
Great Lakes Industrial Controls  
Flovat Equipment Ltd  
Axiom Technologies Ltd  
Brian Controls  
R A Kirby Sales Inc  
Samson Controls  
Durham Instruments  
Sarnia Piping Specialties  
Cantech Controls  
Transcat  
Transcat  
Veronics  
Industrial Technical Services  
CTH Industrial Controls  
Militronics Limited  
Regional Process Equipment  
Alpha Controls & Instrumentation  
Transcat  
Durham Instruments  
Novatech  
Durham Instruments  
Tube Tech Ltd  
Fryston Canada Inc  
Great Lakes Industrial Controls  
Novatech  
Alpha Controls & Instrumentation  
Cancoppas Limited  
Regional Process Equipment  
Prosigma Analytics Inc  
Flovat Equipment Ltd  
Sharp Valve & Instrumentation  
Transcat  
Durham Instruments  
Westech Industrial Ltd  
Alpha Controls & Instrumentation  
Wiler Engineering  
Transcat  
Hardie Industrial Services Inc.  
Lisle Metrix Ltd  
Endress + Hauser  
Transcat  
Summit Controls Ltd  
Cantech Controls  
Industrial Technical Services  
Honeywell  
Huron Valve & Fittings  
Westech Industrial Ltd  
Endress + Hauser  
Transcat  
Sarnia Piping Specialties  
Flovat Equipment Ltd  
Brian Controls  
Industrial Technical Services  
Alpha Controls & Instrumentation  
Sarnia Piping Specialties  
Summit Controls Ltd

**Manufacturer / Tradename**

Stonel  
Strahman  
Sugino  
Superior  
Swagelok Tube Fittings  
Syscon  
Systematix  
T.B. Woods  
TA Instruments  
TBI  
TBI-Bailey  
TBV  
TDC-3000  
TIF  
TLV  
TSI  
Tapecoat Canada  
Tate-Andale  
Taylor Hand Actuated Pressure Calibrator  
Techmaton  
Techne  
Technipower  
Tegam  
Tektronix  
Tel-Tru  
Tel-Tru  
Tel-Tru Thermometers  
Teledyne Analytical  
Teledyne Combustion Efficiency Analyzer  
Teledyne-Farris Relief Valves  
Telegan  
Telematic  
Tempco  
Tenor Industrial Control  
Testo Inc.  
Testoterm  
Texas Electronics Ringgauges  
Texas Sampling  
Texas Sampling Inc.  
The Electron Machine Corporation  
The Probe  
Theben  
Thermal Instrument Co.  
Thermo Electric  
Thermo Electric - Calibrators  
Thermo-Kinetics Temperature Products  
Thermon  
Thermox  
Time Electronics  
Tomoe Valves  
Torbar Flowmeters Ltd.  
Tour & Anderson  
Tower-Gard  
Transmaton  
Transmaton  
Transstector Systems  
Trend B-Metal Thermometers  
Trerice  
Tricentric  
Tripp-Lite  
Triron  
Tuffline Valve  
Turbo  
Tytronics Inc.  
U.S. Gauge  
United Electric  
United Electric  
United Electric Controls (Canada) Ltd.  
United Sciences Inc.  
Universal  
Universal Analyzers  
Universal Enterprises

**Local Sales Representative**

Regional Process Equipment  
Cantech Controls  
Axiom Technologies Ltd  
Great Lakes Industrial Controls  
Huron Valve & Fittings  
Heaters Controls & Sensors Ltd.  
Willer Engineering  
Axiom Technologies Ltd  
Westtech Industrial Ltd  
TubeTech Ltd.  
Elsag Bailey  
Romatec  
Honeywell  
Transcat  
TubeTech Ltd  
Willer Engineering  
Sarnia Piping Specialties  
Great Lakes Industrial Controls  
Transcat  
Lakeside Process Control  
Transcat  
Transcat  
Transcat  
Transcat  
Brian Controls  
Transcat  
Hardie Industrial Services Inc.  
Armatek Controls  
Transcat  
Provincial Controls  
BEP Bestobell Canada Ltd.  
Willer Engineering  
Heaters Controls & Sensors Ltd  
Heaters Controls & Sensors Ltd  
Baker Instruments Ltd.  
Transcat  
Campbell Scientific (Canada) Corp  
Great Lakes Industrial Controls  
BEP Bestobell Canada Ltd.  
Industrial Projects Ltd  
Milltronics Limited  
Davis Controls  
R.A. Kirby Sales Inc  
Armatek Controls  
Transcat  
Provincial Controls  
Spec Sarnia Limited  
Willer Engineering  
Transcat  
BEP Bestobell Canada Ltd.  
Industrial Projects Ltd.  
Flovat Equipment Ltd  
Lisle-Matrix Ltd.  
Controls  
Transcat  
Cantech Controls  
Provincial Controls  
Great Lakes Industrial Controls  
Westburne Lytle  
Transcat  
Great Lakes Industrial Controls  
Regional Process Equipment  
WESCO  
Novatech  
Transcat  
Brian Controls  
Regional Process Equipment  
Cambridge Controls  
Willer Engineering  
Alpha Controls & Instrumentation  
Willer Engineering  
Transcat

**Manufacturer / Tradename**

Unomat  
Vaccon Vacuum Products  
Varsala  
Vaisala - RH, Barometric Pressure  
Valhalla  
Valdine  
Valtek Controls  
Valve Concepts  
Valvtech  
Vector-Vid  
Veeder-Root  
Velan  
Venflo  
Vers  
Versatile Instruments  
Viatran  
Vista Scientific  
Vitec  
Viz  
Vortec Coolers  
Vortisand  
WSA  
Wabco  
Wahl  
Walker Scientific  
Wallace & Tiernan  
Wallace & Tiernan - Pressure Calibrators  
Warren Jones Engineering - England  
Warwick  
Waterman Industries - USA  
Watts  
Watts  
Wedgewood Technology  
Weed  
Weidmuller - Conditioners/Power Supplies  
Weksler Instruments  
Westech  
Westinghouse  
Westronics  
Wey Valve  
Wheaso Varel  
Whipps Inc. - USA  
Whitley Valves  
Whitman  
Wika  
Wika Chemical Seals  
Wika Gauges  
Wika Gauges  
Wika Pressure Transmitters/Transducers  
Wilkerson  
Wilkerson Instrument Co. Inc.  
Williams Instrument Co.  
Winters  
Wood's  
Woodhead  
Worcester  
Worcester Controls  
Wright-Austin  
XPL Plus  
Xomox  
Yarway  
Yokogawa Test Equipment  
Zellweger Analytics  
Zirtek Corporation  
Zullig

**Local Sales Representative**

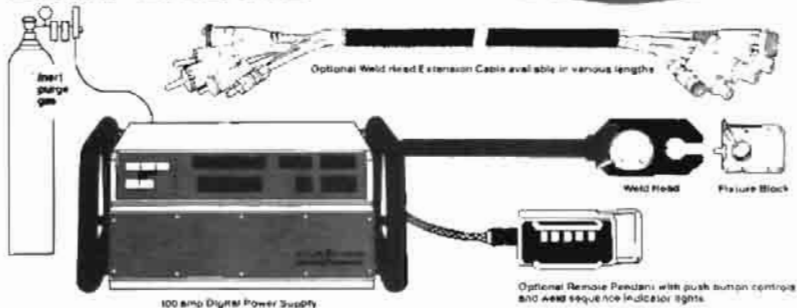
Transcat  
Provincial Controls  
Transcat  
Campbell Scientific (Canada) Corp  
Transcat  
Cancoppas Limited  
Controls  
Zirco Ltd.  
Regional Process Equipment  
Transcat  
Davis Controls  
Westburne Lytle  
Armatek Controls  
Alpha Controls & Instrumentation  
Sharp Valve & Instrumentation  
Willer Engineering  
Transcat  
Transcat  
Transcat  
Provincial Controls  
Great Lakes Industrial Controls  
Great Lakes Industrial Controls  
Great Lakes Industrial Controls  
BEP Bestobell Canada Ltd  
Transcat  
J & M Engineering & Sales Ltd  
Transcat  
Lisle-Metrix Ltd  
Davis Controls  
Lisle Metrix Ltd  
Floval Equipment Ltd.  
Great Lakes Industrial Controls  
Zirco Ltd  
Cantech Controls  
CTH Industrial Controls  
Baker Instruments Ltd  
Westech Industrial Ltd  
WESCO  
Durham Instruments  
Great Lakes Industrial Controls  
Westech Industrial Ltd  
Lisle-Metrix Ltd  
Huron Valve & Fittings  
Davis Controls  
Sharp Valve & Instrumentation  
Provincial Controls  
Provincial Controls  
Regional Process Equipment  
Provincial Controls  
Transcat  
J & M Engineering & Sales Ltd  
Willer Engineering  
Floval Equipment Ltd  
U & I Supply  
Axiom Technologies Ltd  
Floval Equipment Ltd  
U & I Supply  
Great Lakes Industrial Controls  
Milltronics Limited  
Regional Process Equipment  
Great Lakes Industrial Controls  
Transcat  
Prosigma Analytics Inc.  
R. A. Kirby Sales Inc.  
BEP Bestobell Canada Ltd

# CAJON Welding System

The State-of-the-Art System that gives you superior weld quality and increased productivity in a simple, safe design

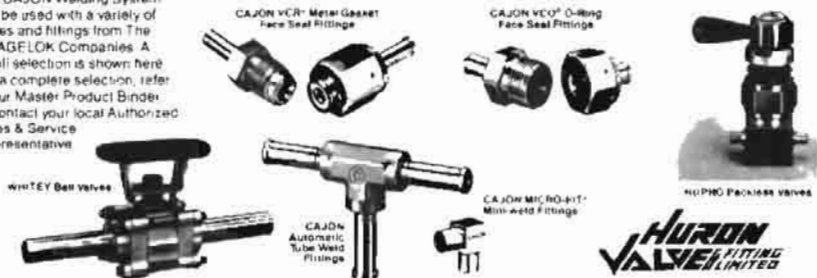


## Welding System COMPONENTS



## Weld Ended Valves & Fittings

The CAJON Welding System can be used with a variety of valves and fittings from The SWAGelok Companies. A small selection is shown here. For a complete selection, refer to our Master Product Binder or contact your local Authorized Sales & Service Representative.



**HURON**  
VALVE & FITTING  
LIMITED

1-800-265-7575

336-3453

800 CONFEDERATION ST.

P.O. BOX 386

SARNIA, ONT. N7T 7J2

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

1946/47	Bill Graeb	1971/72	Curt McDonald
1947/48	Amby Uptold	1972/73	Everett Maness
1948/49	Ron Chamberlane	1973/74	Stan Thrift
1949/50	Don Livingstone	1974/75	E A Comello
1950/51	Amby Uptold	1975/76	Bernard West
1951/52	Ken Goldring	1976/77	Jim Henrikson
1952/53	Amby Uptold	1977/78	Jim Johnson
1953/54	Warren McKay	1978/79	Ron Thuner
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	1995/96	Mike Murray

# **LAKESIDE**

**FISHER**

## **FISHER CONTROLS INTERNATIONAL, INC.**

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™ - digital valve controllers

### **FISHER SERVICE**

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

### **CON-TEK**

- Steam Conditioning Valves and Desuperheaters

### **H.D. BAUMANN**

- Control Valves and Control Equipment
- General purpose control valves
- Corrosion resistant valves
- Low flow control valves

## **FISHER-ROSEMOUNT**

### **FISHER-ROSEMOUNT SYSTEMS INC.**

PROVOX distributed control systems and Rosemount System 3™

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



### **Delta V**

- Scalable process system for small process control applications



### **GENERAL EQUIPMENT & MANUFACTURING COMPANY INC.**

- Proximity limit switches

ISO 9001



Registered 1994

## **Lakeside Process Controls Ltd.**

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

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

*"Superior Service Supporting You"*