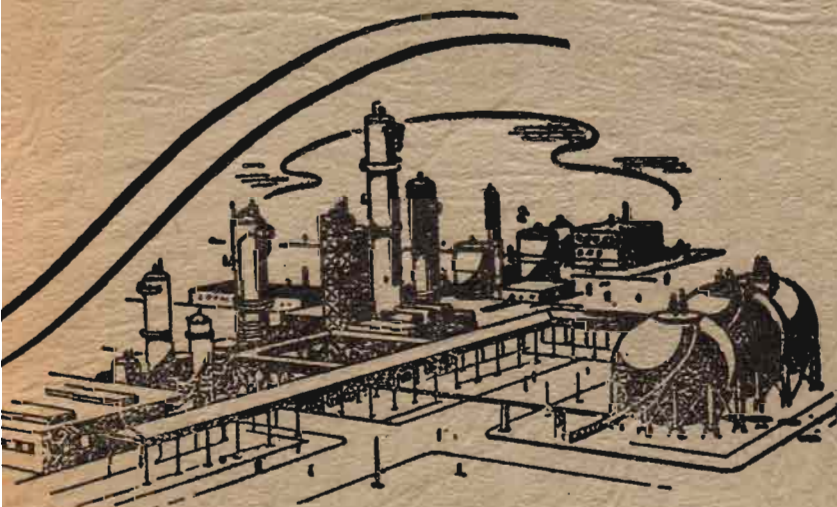


FEB 53

INSTRUMENT  
SOCIETY *of*  
AMERICA



SARNIA SECTION



Monthly Bulletin



# **AUTOMATIC CONTROL EQUIPMENT**

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**INSTRUMENTS FOR RECORDING & CONTROLLING**

**Liquid Level**

**Flow**

**Pressure**

**Temperature**

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**TRANSMITTERS — RECEIVERS**

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**DIAPHRAGM-OPERATED CONTROL VALVES**

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**PRESSURE REDUCING REGULATORS**

**BACK PRESSURE REGULATORS**

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**PUMP DISCHARGE PRESSURE REGULATORS**

**STEAM PUMP SPEED GOVERNORS**

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## **Mason-Neilan Regulator Co. Limited**

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**Representatives at  
VANCOUVER — CALGARY — EDMONTON — WINNIPEG**



# *The Instrument Society of America*

## **SARNIA SECTION**

has as its objectives the advancement of the arts and sciences associated with the theory, design, and use of instruments in the various industries and technologies in the sarnia area.

The immediate benefits derived by the Sarnia members include the monthly publication *Instruments*, a monthly general meeting at which a qualified speaker discusses an instrumentation topic, and a winter school for instrument men who are interested in improving their knowledge of currently available instruments, as well as their servicing techniques.

Through the activities of its many committees, the main Society is striving constantly for the improvement and standardization of instruments and instrumentation techniques in the process industries. It is therefore worthy of the support of everyone to whom instruments are a livelihood.

Executive Officers for the 1952-53 season are:

Honorary Chairman	MR. J. M. HACKING Plant Superintendent Dow Chemical Company
President	AMBY UPFOLD Polymer Corporation
Vice President	WARREN MCKAY Polymer Corporation
Secretary	LARRY HALL Austin Construction Co.
Treasurer	LAURIE PARKER Dow Chemical Company

Meetings are held each month on the third Monday at 8.00 P.M. The meeting place will be Club Rooms B and C of the Sarnia YM-YWCA unless otherwise announced.

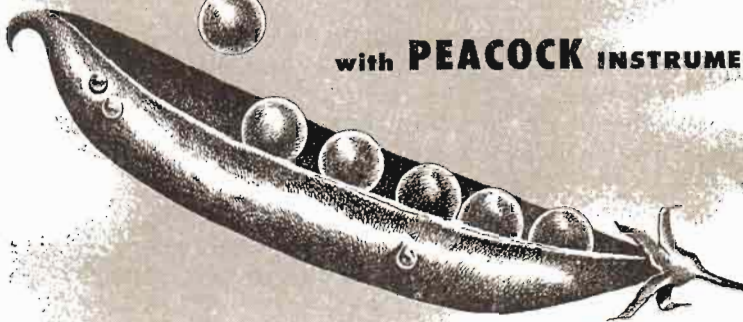
Membership dues are \$12.00 per annum for Senior Members and \$7.50 for Associate Members, and are payable to the Treasurer of the Sarnia Section.

Correspondence relating to the general activities of the Sarnia Section should be addressed to L. J. Hall, Secretary, 730 Talfourd St., Sarnia. Correspondence concerning programs should be sent to J. R. Connell, Program Chairman, P. O. Box 233, Sarnia.



**MEASUREMENT and CONTROL**

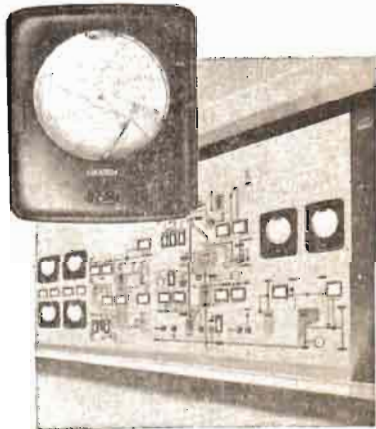
with **PEACOCK INSTRUMENTATION**



*... for micrometer-like precision in the control and measurement of process variables, call on Peacock Brothers' experience.*

Peacock represent six leading instrument manufacturers, whose combined products comprise probably the most extensive line of measurement and control instruments available ... for flow, temperature, pressure, liquid level, humidity and other process variables.

This complete line, combined with Peacock Brothers' own application engineering service, provides effective instrumentation for almost every industrial need.



**BUDENBURG • FOXBORO • JERGUSON  
MERIAM • PRINCO • ROCKWELL**

The last word in modern automatic control—Foxboro Model 40 and Model 50 controllers on graphic panel of new T.C.C. unit. For graphics or conventional design panels—Peacock offers the latest in instrumentation.

**PEACOCK BROTHERS LIMITED**  
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SYDNEY • TORONTO • NORANDA • SUDBURY • WINNIPEG • CALGARY • VANCOUVER

# SECTION NEWS

Vol. 2, No. 6.

February, 1953.

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## NOMINATING COMMITTEE

The Nominating Committee for the 1953-54 season was appointed at the January meeting by the president as follows:

Ben Burn (Chairman)  
Joe Woodcock  
Ron Chamberlain

If any of these gentlemen approaches you in the near future to stand for office in the Sarnia Section, I.S.A., don't treat him like a bill collector. Give him a chance to explain what it is all about and perhaps you may be writing these lines instead of me next year! Every member who takes what the I.S.A. is willing to give should be willing to take a turn on the executive for one year. Take it from me; it's really worth it!

## PHILADELPHIA SECTION YEAR BOOK

We would like to congratulate the Philadelphia Section for their production of their 1952-53 Year Book. It is a 52 page booklet bound in what appears to be some kind of felt and contains a list of all the Philadelphia Section members, a history of the Section, the Constitution of the I.S.A., a complete listing of all the 56 Sections of the I.S.A. with their Secretaries, meeting nights, etc., and a series of attractively laid-out ads, which, incidentally, paid for the whole production with no cost to the Philadelphia Section. Larry Hall will be glad to show this work of art to any who are interested during the social part of the next meeting. It seems like something worth emulating.

WRITTEN ON A ROLL CHART

A few days ago, I was approached by one of our more discerning members who had a rather serious question concerning our little magazine, and in particular, these small essays I have been grinding out each month.

He felt that my attitude, in general, was too critical, and wondered if there was any type of instrument which had my whole-hearted approval. Did I think it valuable to expose everyone's shortcomings? Why not a few words of praise for something?

What this member did not realize, Dear Reader, is that I have left unsaid a hundred things for everyone that has been printed. For instance, I do not expose the defects, obvious though they may be, of anyone who buys advertising space with us. So, those who have bought space may relax. The skeletons in your crowded closets will not be exposed by the blinding light of editorial opinion. I can only remind those who do not advertise that they all have plenty that can't bear close examination. Act now while our rates are low. By next year we may be publishing a book as thick as Eaton's catalogue, and I will write only about the weather.

To return to the matter of whether there is an instrument I really like, - there is. Every time I fix a leaking tap at home, I am reminded of one for which I have a genuine affection. This instrument is the Chlorinator.

You all know the Chlorinator. It sits quietly in your water pump house and adds a chlorine solution to the service water to discourage the growth of microscopic marine life in the heat exchangers.

Some of you may well be astounded by my admission of admiration for this intricate apparatus, and I freely confess that in my youth I loathed and despised it. Chlorinators are an

acquired taste, but once they are in your blood you regard them with the feeling that Jack Almey has for a piece of ancient Camembert.

It is quite true that I served my apprenticeship on the early water-operated model which was a multitude of small bubbling fountains adjusted by sloppy needle valves and very subject to water and/or chlorine blow-backs. The vital organs of this machine were actuated by semi-buoyant floats and by a bucket hanging on a spring, which supposedly moved a valve when the water dropping in was not equal to the water leaking out. I was never sure which way, though I spent many hours with the mechanic who understood this contraption, and always departed none the wiser because the adjustment which would persuade it to operate was never the same twice. I sometimes suspected that all those little needle valves had to be twiddled in a certain order, as if each were a musical note and a certain tune had to be played to coax the reluctant chlorine to start. Anyway, I never did find the tune or combination or whatever was required. Even when it was put in working order by its master, a bit of seaweed or a half-minnow would come along and throw it off again.

Those days of disgust and frustration are behind me. We have a later model whose functions are controlled by air-diaphragm valves. The bucket, many of the floats and the little fountains are gone. This machine has chlorinated for nearly a year now with very little attention. It turns itself on and off each day and faithfully adds the chlorine. You would certainly recognize it as a relative of the earlier model. The evil-looking bell-jar is there, but the comparison ends there. This new one performs as every instrument should. I should be glad indeed that very little else of our equipment is this good. Otherwise, the need for instrument men would be slight.

H. Hobbs.

# PROGRAM NOTICE

DATE: Monday, February 16, 1953.

PLACE: Sarnia Y.M.-Y.W.C.A.

TIME: 8:00 P.M.

SPEAKER: Mr. E.H. Lewis,  
Superintendent of Signals,  
Canadian National Railways.

TOPIC: "Railway Signalling and  
Control Devices".

FILM: By courtesy of G.M. Diesel-  
Electric, London.

## PROGRAM CHAIRMAN'S NOTES

February 16 will be Railroad Night!

Do you know what Block Systems are? Have you ever wondered how Wig-wags work or keep on working in any weather? Did you know the railroads used Graphic Panels long before the petroleum and chemical industries, as part of their centralized track control systems?

These are some of the points which will be discussed at our February 16 meeting. You will have an opportunity to ask questions. The guest speaker will be Canadian National Railways Superintendent of Signals, Mr. E.H. Lewis.

An appropriate film will be provided by courtesy of the General Motors Diesel-Electric Works at London.

Bob Connell.



- HELP WANTED -

2nd Class Instrument Mechanic required by distillery in near  
by city. Excellent chance for advancement, good working conditions.  
Further information supplied by your local employment chairman -  
Warren J. McKay, 201 N. Brock St., DI-6476.

All enquiries treated in the utmost confidence.



**T**HE Honeywell symbol stands for the world's most complete line of instruments and controls . . . over 8,000 different types for control functions covering the residential, industrial and transportation fields.

Since 1932, when Honeywell first began manufacturing controls in Canada, the story has been one of continuous development and expansion. Unit production has increased 1200% in the last ten years; while at the same time diversity of types manufactured has grown steadily. Today over 70 different Honeywell controls are made in Canada, as well as the manufacturing and assembly of a constantly growing list of the company's line of Brown industrial instruments.

Industrial controllers represent the principal line of Honeywell's Brown Instruments Division . . . instruments that record, indicate, and/or control temperatures, pressures, humidity, fluid flow, liquid level, moisture content, acidity—practically any variable element of production, research, design, testing and accounting functions.

Honeywell Industrial Valves and a long list of other primary control elements form an important part of the Honeywell family. To serve industrial users, a large variety of instrument literature on products and applications is available on request. Of specific note is a list of several hundred Instrumentation Data Sheets covering particular applications of instruments. In addition a quarterly instrument magazine is published for interested engineers to keep them abreast of new instrument developments and the latest applications; and also a tabloid type bi-monthly paper called Industrial Control News, covering smaller control devices and their application.

Write today for a current list of IDS application sheets or to be put on the mailing list to receive Instrumentation or Industrial Control News. These service publications will be sent to you regularly without cost or obligation.

**Minneapolis Honeywell Regulator Co., Ltd., Leaside, Toronto 17.**

MINNEAPOLIS  
**Honeywell**

*Brown Instruments*

## COMPANY REPRESENTATIVES FOR 1952-53

Imperial Oil Limited  
Polymer Corporation  
Dow Chemical Company  
Canadian Oil Company  
Member at large

Russell Fulcher  
Ross Lindsay  
Len Carter  
Ron Asselstine  
Howard Robertson

## COMMITTEE MEMBERS FOR 1952-53

NATIONAL DIRECTOR  
J. W. Graeb

MEMBERSHIP  
Dick Langler

REFRESHMENTS  
Ross Lindsay

SPECIAL EVENTS  
Tom Needham

NEWSLETTER  
Howard Robertson

EDUCATION  
Ken Goldring

MAILING  
Len Carter

HOUSE  
Russ Fulcher

PUBLICITY  
Larry Hall

FILMS  
Bob Connell  
Len Carter

PROGRAMS  
Bob Connell

EMPLOYMENT  
Warren McKay

CONSTITUTION  
Ron Asselstine

ATTENDANCE  
Tom Moore

## RED SEAL Petroleum Meters



4" Type "C"  
Auto-Stop  
Meter



- AIR RELEASES
- STRAINERS

- BACK PRESSURE VALVES
- FLOW CONTROL VALVES

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TORONTO 14, ONTARIO

BRANCHES: MONTREAL - CALGARY - VANCOUVER - WINNIPEG - HALIFAX

We have the pleasure of serving industry in the Sarnia Area as exclusive representatives of the following manufacturers of quality Instruments, Controls and Accessories:—

**CHIKSAN COMPANY**

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**FISHER GOVERNOR COMPANY**

—Pressure and Level Controllers

**INDUSTROL CORPORATION**

—Dehumidifiers

**MANNING, MAXWELL & MOORE, INC.**

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—Hancock Valves

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**TRINITY EQUIPMENT CORPORATION**

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**G. W. Beecroft & Company**

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# NEW IDEA

## In Pneumatic Control!

### Taylor TRI-ACT<sup>\*</sup> CONTROLLER

New Taylor Force-Balance Controller with new circuit is new concept in process control! Combines two proportional bands, one with rate action in closed loop ahead of automatic reset. Rate action shifts first band. Automatic reset shifts second band. You get:

1. Start-up with no overpeaking
2. Benefits of automatic reset without its evils.
3. Faster recovery on load changes.



Get complete details from Bulletin 98097. You'll see how the new TRI-ACT Controller creates new standards in pneumatic transmission systems for temperature, pressure, flow or liquid level control. Taylor Instrument Companies of Canada Limited, Toronto, Montreal, Winnipeg, Calgary, Vancouver. Instruments for indicating, recording and controlling temperature, pressure, humidity, flow and liquid level.

<sup>\*</sup>Trade-Mark



TAYLOR INSTRUMENTS MEAN "ACCURACY FIRST"