

MAY 54

INSTRUMENT
SOCIETY of
AMERICA



SARNIA SECTION



Monthly Bulletin



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 national 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 1953-54 season are:

| | |
|--------------------|---|
| Honorary President | MR. G. E. EVANS Tech. Supt. Polymer Corp. |
| President | WARREN McKAY Polymer Corp. |
| Vice President | JACK HEATLEY Imperial Oil Co. |
| Secretary | LARRY HALL Sun Oil Co. |
| Treasurer | EARL EVERINGHAM Polymer Corp. |

Meetings are held each month on the fourth Monday at 8:00 P.M. The meeting place will be the Sarnia Y.M.-Y.W.C.A. unless otherwise announced.

Membership dues are \$12.00 per annum for 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 Telford St., Sarnia. Correspondence concerning programs should be sent to H. Kohlmeier, Program Chairman, Polymer Corp., Ltd., Sarnia, Ontario.



It was not so very long ago that accurate measurement of industrial processes depended entirely upon laboratory instruments. These instruments however, laboured under severe limitations for while they were extremely sensitive they were correspondingly delicate. Their mechanism could not withstand the corrosive atmosphere, shock, heat and vibrations characteristic to many of our industrial processes.

It is much different today. There are very few processes that cannot be accurately measured. Much of this can be attributed to the diligence of Honeywell research engineers who found a way to put the science of electronics to work in industrial measurement. From 1940 on, Electronic instruments swept away all earlier limitations. With this new approach of electronic continuous balancing, sensitive precise measurement was possible with rugged compact instruments. The production man now had at his fingertips accurate reports through quickly responsive and consistently reliable instruments.

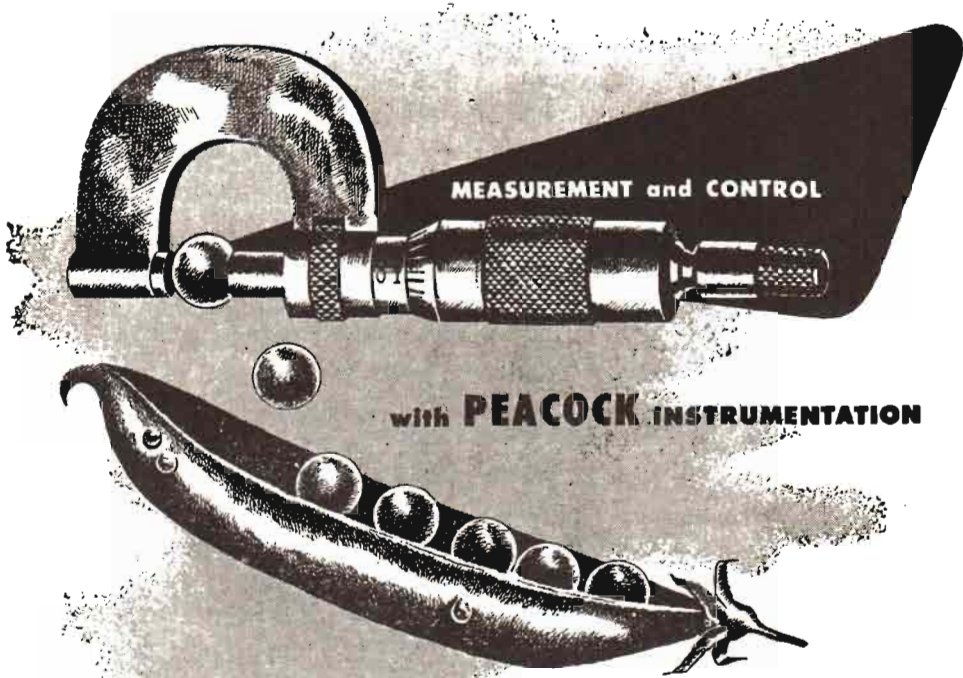
To keep industrial users abreast of new developments, techniques and products, Honeywell has on hand an extensive supply of literature that is available on request. There are several hundred Instrumentation Data Sheets covering particular applications. Also of interest is Instrumentation a quarterly magazine containing articles covering interesting installations. Industrial Control News, a bi-monthly describes small control devices and their applications.

Write today for a current list of I.D.S. 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.

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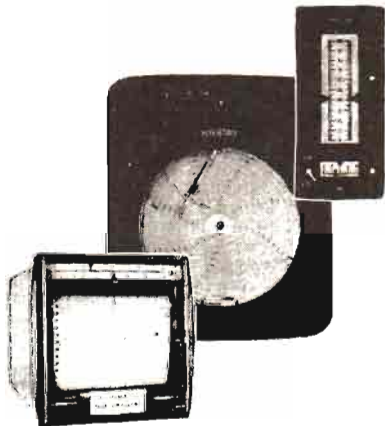
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The "BULLETIN"

VOLUME 3 No. 8

MAY 1954

Editor: Larry Hall

Circulation Manager: A. Upfold

Asst. Editor: Ross Lindsay

Advertising Manager: H. Kohlmeier

Illustrator: N. Knowles

"Written on a Roll Chart": H. Hobbs

NEW EXECUTIVE ELECTED

The annual election of officers of the Sarnia Section, I. S. A., took place at the April meeting on April 26, at the "Y" with the following results:

Past President — Warren McKay, Polymer

President—Jack Heatley, I.O.L.

Vice-President — Larry Hall, Sun Oil

Secretary — Bob Brayne, Cabot Carbon

Treasurer — Ron Asselstine, Canadian Oil

Polymer Representative — Tony Plazek

I.O.L. Representative — Joe Woodcock

Canadian Oil Representative—Fred Croft

Sun Oil Representative—Jack Warwick

Dow Chemical Representative — Jack Almey.

The positions of Honorary President and Representative-at-Large are yet to be filled. These will be appointed by the new executive at the June meeting.

APRIL MEETING

One of the highlights of the April meeting of the Sarnia Section, I. S. A., which was held at the "Y" on April 26th., was the showing of a full length sound-color movie on the construction of the new Aluminum Company of Canada smelter and power plant at Kitimat, B.C. The film, which was presented by International Harvester Company and narrated by Raymond Massey, was shown in Sarnia through the courtesy of the Bechtel Construction Company through their representative, Bob Knechtel.

This film showed engineering feats which literally stagger the imagination. The biggest construction project in the world, consisting of

five different projects, each one of major proportions will cost over 500 million dollars when completed and will have taken seven years in the doing. A watershed as big as the state of Connecticut and ringed by mountains will be dammed up at its easterly outlet by project one, the building of the dam. The waters will be made to turn westwards and flow through a 40 foot tunnel cut right through a mountain for 40 miles—project two. The water will be diverted through penstocks cut inside the mountain to drop 2000 feet to the powerhouse. The powerhouse, project Three, will be actually built inside the base of the mountain which is being tunneled

out for the purpose making a cavity large enough to contain a building two city blocks square and fourteen storeys high. This power plant will develop more power than all the projects at Niagara combined and will transmit it for fifty miles to the smelter, project four. Each transmission cable will be eight inches thick and will stand a coating of ice rated at two pounds per foot, yet the transmission towers will be over a thousand feet apart. Enough power will be lost in transmission to supply the city of Toronto.

Project five is the building of a new city from the ground up which is expected to reach a population of fifty thousand by 1960.

The film was most interesting and was warmly appreciated by the members.

The speaker of the evening was Mr. John G. Dobson, Manager of the Chemical Industries Division of the Foxboro Co. of Foxboro, Mass. Mr. Dobson gave a most interesting talk on Quality Control of Fractionating Columns in which he described the use and operation of the Foxboro Quality Control Meter which works on the principle of comparing a fluid of known vapor pressure designed in the instrument with the fluid of the tower tray which is desired to be controlled.

After the meeting, the usual social time was held.

NEW MEMBERS

The following new members are welcomed to the Sarnia Section, I. S. A.:

Mr. Ronald Carey, 118 S. Mitton St., Sarnia; Catalytic Const. (Sun Oil)

Mr. Fred Croft, 945 Woodland Ave., Sarnia; Canadian Oil

Mr. F. Landheer 295 Devine St., Sarnia; Canadian Oil (Assoc. Member).

I. S. A. SCHOOL ON STACK CONTROLLERS

The Sarnia Section held a four day School on "Stack Controllers" at Polymer Recreation Club on May 10, 11, 12, and 13th., which was judged by all to be a huge success. Stack Controllers (or more properly, "Force Balance" Controllers) of the following companies were dealt with: Minneapolis-Honeywell (Brown Tel-O-Set). Taylor Instrument Companies (Tri-Act), Foxboro Instrument Company (M-53, M-58, M-59 and Moore Products Company (M-56).

Each company had one day in which to discuss its controller. This

was done in two sessions of three hours each, one in the morning and one in the afternoon. A different group of instrument men attended each session, so that the groups could be kept to a manageable size. The following were instructors: Foxboro M-53, M58, M-59; Peter Kindersley, Production Engineer, Foxboro Instrument Company, Foxboro, Mass.

Taylor Tri-Act: Carl Ritter, Application Engineer, Taylor Instrument Companies, Rochester, N.Y.

Moore M-56: R. C. Hopkins, Senior Application Engineer, Moore Pro-

ducts Company, Philadelphia, Pa. Brown Tel-O-Set: Ed Crane, Application Engineer, Minneapolis-Honeywell Regulator Company, Philadelphia, Pa.

The following instrument men attended some or all of the school:

IMPERIAL OIL: H. Dawson, W. Eldridge, J. Woodcock, L. Perry, J. P. Heatley, L. LeNeve, C. P. Langan, E. L. Finch, G. Mills, L. O. Williams, B. Willock, R. Corner, W. J. Boucher, L. McKenzie and H. Milsom.

POLYMER: E. I. Brown, R. Hunter, A. Plazek, E. Marsh, H. O. Kohlmeier, R. K. Chamberlain, E. C. Everingham, W. J. McKay, F. T. York, K. Goldring, C. McKenzie, R. Lindsay, W. McCrie, W. J. MacDonald, and A. Upfold.

CANADIAN OIL: G. A. Humphrey, R. Asseltine, J. Taylor, R. Harrison,

T. J. McClean, E. B. Read, G. Spalding, F. Croft and C. Parker. DOW CHEMICAL: H. E. Cole, J. Almey, T. F. Scarsbrook, H. Hobbs, L. F. Parker, L. J. Carter.

SUN OIL: L. J. Hall, L. R. Hawkes, T. S. Davidson, J. S. Warwick and R. Carey.

The Educational Chairman, Jack Heatley wishes to express through the medium of this publication his appreciation to the instrument companies who sent their experts as instructors and provided equipment, to Polymer Corporation for the use of the Polymer Recreation Club Rooms and some instrument equipment, to Polymer Corporation, Imperial Oil Limited, Dow Chemical of Canada, Canadian Oil Refineries and Sun Oil Refinery for paying the time of the men who attended during working hours.

COMPANY NEWS

IMPERIAL OIL

GEORGE MILLS and JACK HEATLEY have returned from New Jersey where they attended an Instrument Forum at Standard Oil of New Jersey recently.

POLYMER

GORD CATCHPOLE has retired from the position of Instrument Engineer at Polymer to assume the duties of Asst. Maintenance Engineer. He has been replaced by Charlie McKenzie.

EV. MARSH bought a new car and went to Florida for a vacation recently. Who says there's no money in instruments?

KEN JONES apparently has been following the example of some children in the news and climbing into boxes with no latch on the inside. When he climbed into a meter box recently to get to better grips with an obstreperous instrument, HUGH WORSLEY happening by and seeing the door swinging open, and being the conscientious instrument man that he is, he shut and latched the door and went dutifully on his way leaving Ken

to scream until help arrived. Better watch that, Ken.

CANADIAN OIL

Congratulations are due to ED. READ on the birth of a son this month.

FRED CROFT has just returned from Orville, Ohio, where he was sent to attend an instrument course at Hagan Instrument Corp. Ask Fred how to make out an expense account.

DOW CHEMICAL

TOM MOORE is still home sick, we are sorry to report. Tom has had a long bout with illness, first with pneumonia and now with pleurisy. We all join in wishing Tom a speedy recovery and return to work.

An event of great importance to BOB SNYDER took place on May 22 for that is the day that Bob got

married. We wonder if Bob will be at the annual dinner meeting on May 28

SUN OIL

Biggest news from down Sun way this month is, of course, the official opening of the plant on May 15. Beautiful spring weather graced the event and anyone who was worth anything in Canada was there. The plant was fresh with new paint especially in the instrument shop which was done just the night before under the supervision of RED HAWKES. LARRY HALL was around on opening day to answer the many questions directed at him by the interested visitors and to help clean up the leftovers after the sumptuous buffet lunch. Soon, the Sarnia Section, I.S.A. will be touring this new refinery which is the most compact and highly instrumented in Canada.

INSTRUMENT VENDORS

There is still time to reserve your advertisement
in **THE BULLETIN.**

If you haven't yet done so, send in your application for space to

Mr. L. J. Hall, Managing Editor
Sarnia Section, I.S.A. "Bulletin"
730 Talfourd Street
Sarnia, Ontario, Canada

REMEMBER — OUR READERS ARE INSTRUMENT BUYERS

WRITTEN ON A ROLL CHART**An Episode****Scene I.**

A large control room. The recorders indicate that the unit has shut-down. Operators hurry about their many duties. Dominating the scene a well-dressed personage who stands front and centre, seeming to see and understand all without watching. His morose presence causes the others to step more lively. As a shabby figure approaches, and stands timidly, cap-in-hand waiting to be noticed. He speaks—

Graybeard:

"O Master, I would'st have a word with thee."

Master:

"And I with thee, O doddering and infirm!
Thrice in as many days the instruments
Have shut us down. Production is no more.
The pumps and towers won't function all because
Of your neglect and gross incompetence.
If you can answer "why" 'tis some relief
But I am rather busy, so be brief."

Graybeard:

"O Sir, my reasons are both full and manifold.
Much water doth pollute the Air Supply.
So much so that our tried and worthy friends
The instruments cannot digest it. Each regulator spouts
More water than does many a shower-head.
Each pilot valve is drowning separately,
Each nozzle issues moisture drop by drop
Each filter is a miniature sea.
We drain them but the water does not stop.
And still each tries to do his little task
Though difficult beyond my imagry.
They even work on water well enough,
But minnows cannot get through the restrictions,
And thus they make the going rather rough.
Methinks the unit driers need repair
I'm sure that they are watering our air."

Master:

"Enough! You babble like some endless flowing fount.
Your reasoning is quite preposterous

The driers were installed not ten years since.
We changed the compound back in forty-six.
You must look elsewhere for your mystery.
Now I suggest you do the following.
First change to City water, this will rid
The system of all minnows. Then install
A steam trap where you now employ a filter.
And now make haste and cease this constant whining.
A little work can bring a silver lining."

Graybeard slinks off with head bowed.

The curtain falls.

—H. Hobbs

A long winter is over, and pleasant weather once more brings with it the happy task of shutting off steam tracers. Now, for a few months our wrists can heal up and we can reach fearlessly into the meter boxes without getting branded like some unwary steer. I've often wondered about tracers. They look to be firmly located, but we all know that they too will frequently leap out of position and find that part of your arm between glove and cuff and cause considerable anguish. It's something as mysterious and hard to prove as the Indian rope trick.

This, I believe, is our last issue and I really hated to buckle down and produce something. I always postpone it until the eleventh hour anyway and this beautiful weather has made the task more difficult. I rather hoped that my contribution might be dispensed with this time, in view of the mounting excitement over the annual dinner. However, my hopes were in vain, because Slave-Driver Hall never forgets and he has insisted on his pound of flesh.

To make a bad situation worse, I have just returned from my vacation and the reaction is still strong. We drove our faithful Chev. down through the States and enjoyed a week of warm sunshine, 86 degrees F. breezes, and surf-bathing in water just a few degrees warmer than Lake Huron ever gets. Quite a contrast to get back here and encounter the last snow-flurries of the year. We'd better work on a method of putting the whole industry on a raft and anchoring about 1000 miles due South.

We are getting a little taste of pleasant weather just now, though so maybe we can put off any move to sell the land back to the Chippe-

was until October 1. It'll take real salesmanship at any time, so let's not scare the customers away with undue haste.

One of my fellow-workers is being married before this issue goes to press, and of course, his associates are showering him with uncalled for biological advice, as is the habit of all associates of those about to get married. Don't pay any attention, Bob. Beneath our farm-yard exterior there beats eleven hearts of gold who all wish you and your bride every happiness.

It is now growing late in the evening and I must bring this last effort of the season to a close and let my Secretary get it typed out, after she persuades our daughter that it really is night-time. Then to steal out to East Talfourd Street and slide it in Larry's door, trusting his dog won't bite.

See you next season.

—H. Hobbs

ED. NOTE: We haven't got a dog any more since he bit the Assessor! As to this being Hobbs' last effort for the season, I'd like to remind him that we have another issue coming up in June, so he'd better not disappoint his fans. Personally I'd like a description of that Florida vacation of his and his views on the Tennessee hill billies he must have encountered on the way.

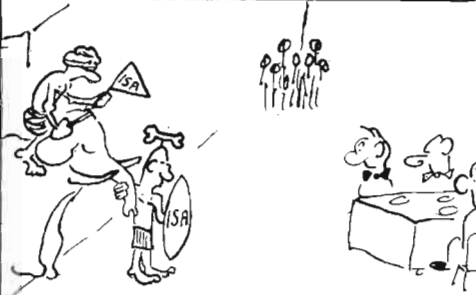
WHAT THEY REALLY MEAN



SEVERAL PROMINENT GUESTS WERE THERE



THE SPEAKER PRESENTED AN INSTRUMENT THAT PAID FOR ITSELF



A FEW OUT OF TOWN GUESTS ARRIVED LATE



WE SAW LAST YEARS EXECUTIVES PASSING OUT AND THE NEW EXECUTIVES TAKE OVER THEIR POSTS



THE AFTER DINNER DISCUSSIONS CENTERED ON THERMETIC CURVES



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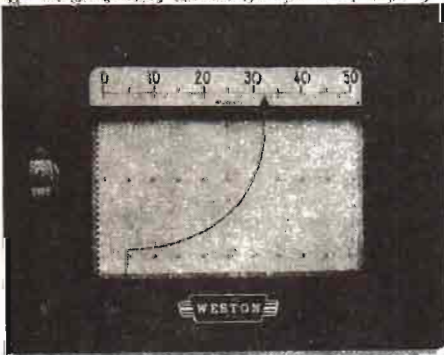
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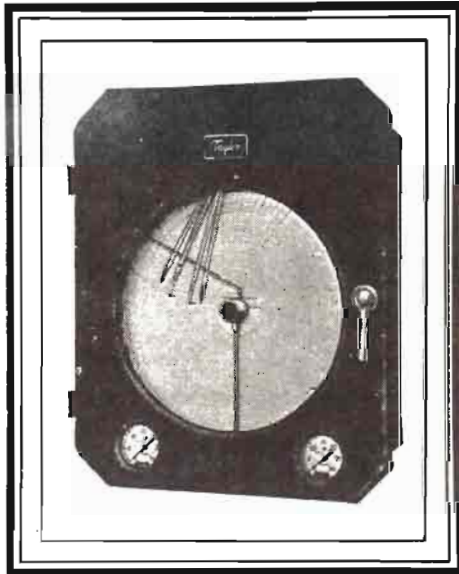
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| Polymer Corporation | "Nobby" Knowles |
| Dow Chemical Company | Tom Moore |
| Canadian Oil Company | Gordon Humphrey |
| Member at large | Bob Brayne |

COMMITTEE MEMBERS FOR 1953-54

| | | |
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