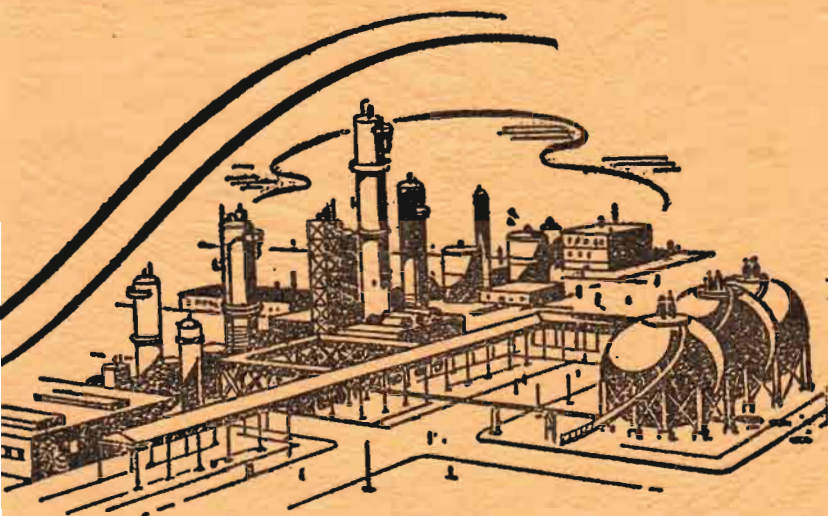


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OCT 54

INSTRUMENT
SOCIETY of
AMERICA



SARNIA SECTION



Monthly Bulletin



The Instrument Society of America

SARNIA SECTION

has as its objective the advancement of the arts and sciences associated with the theory, design, and use of measuring and control instruments in the various industries in the Sarnia area.

The immediate benefits derived by the Sarnia members include a monthly meeting at which a qualified speaker discusses an instrument subject, after which members fraternize with other instrument men and interchange ideas and news at a social hour, a subscription to the "I.S.A. JOURNAL", a subscription to the Sarnia Section "BULLETIN", access to all technical data, servicing techniques and standardization policies developed by the National Committees of the ISA and an annual school for mechanics and technicians.

As a member of the National body of the Instrument Society of America, a rapidly growing and influential technical society, the member partakes indirectly in the progress of instrumentation made possible by the work of the various National Committees.

Executive Officers for the 1954-55 season are:

Honorary President	H. R. HOLLAND, Tech. Supt. I. O. L.
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Meetings are held on the fourth Monday of each month from September to May inclusive at 8.00 P.M. The meetings are held at the Sarnia Y.M.-Y.W.C.A. unless otherwise announced.

Anyone earning his livelihood through the manufacture or use of instruments and who is acceptable to the executive body may become a member of the Sarnia Section, I.S.A. Dues are \$12.00 per annum. Associate Members are those who are associated with instruments but who do not earn their livelihood directly from them, such as stationary engineers, process operators, etc. Their dues are \$7.50 per annum.

Correspondence relating to the general activities of the Sarnia Section should be addressed to the Secretary, Mr. R. F. Brayne, R. R. No. 1, Mooretown, Ontario. Dues should be made payable to the Sarnia Section, Instrument Society of America and sent to the Treasurer, Mr. R. Asselstine, 891 Burr Street, Sarnia, Ontario.

Correspondence concerning programs should be sent to the Program Chairman, Mr. H. Kohlmeier, 352 Stuart Street, Sarnia, Ontario.

Copy for "THE BULLETIN" should be sent to the Managing Editor, Mr. L. J. Hall, 730 Telford Street, Sarnia, Ontario.

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Jack Almey
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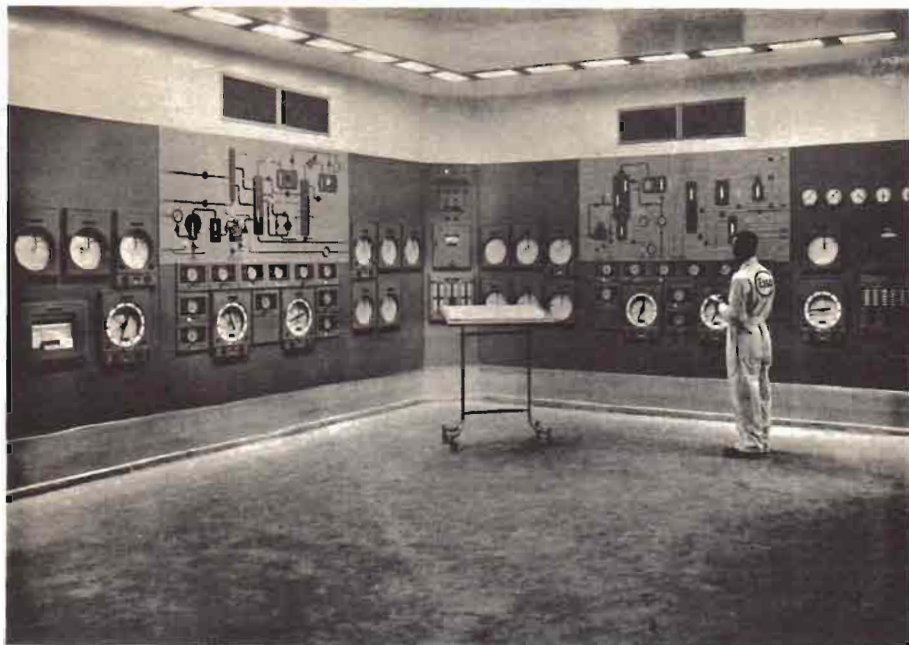


Photo — Courtesy of Imperial Oil Limited

Here's How Honeywell Customized Instrumentation Helps an Oil Refinery

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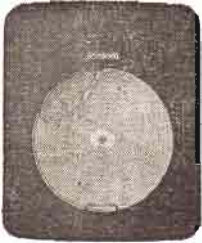
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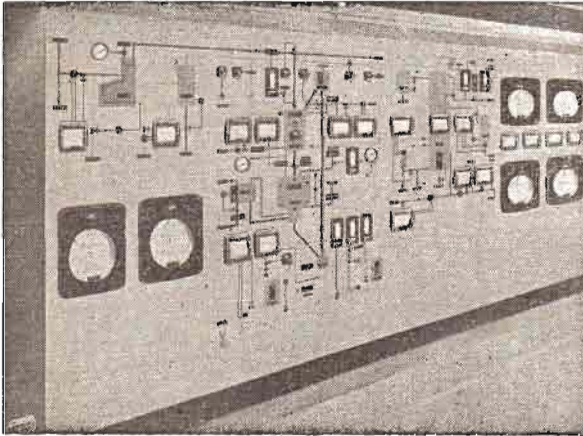


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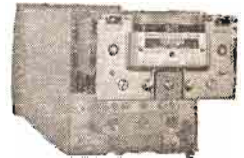
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The "BULLETIN"

VOLUME 4 No. 2

OCTOBER 1954

Managing Editor: Larry Hall

Illustrator: N. Knowles

"Written on a Roll Chart": H. Hobbs

Polymer Reporter: Tony Plazek

I.O.L. Reporter: Joe Woodcock

Canadian Oil Reporter: Fred Croft

Dow Reporter: John Almey

RESULTS OF THE NATIONAL COUNCIL MEETING

In a report of the results of the National Council meeting which was held in Philadelphia, on September 14th., 15th., and 16th., the Sarnia Section official Delegate, Mr. J. W. Graeb described in detail his observations, reactions and recommendations. The report, which was read to the general membership at the September meeting at the "Y" recommended that the issues raised by events of the past month and described in last month's BULLETIN be considered in detail by the general membership and their recommendations be made known to the National Executive.

In order to do this, it was moved by Larry Hall, seconded by Warren McKay that a special meeting of the general membership of the Sarnia Section be called. This motion was carried and subsequently a meeting was called for Monday, October 18th, at the Colonial Hotel in Sarnia. (This meeting will have taken place by the time this paper goes to press, so a special notice is being mailed to members.)

Highlights of Bill Graeb's report follow:

Bill spent over 14 actual hours listening to debate at four separate meetings in connection with the discussion on the conduct of the Executive Board.

The Executive Committee recommended that an Executive Director be hired to take over the duties formerly handled by the Society Manager; in addition, he would have other responsibilities which would relieve the executive of many of the day to day decisions concerning the operation of the Society.

It was the majority decision of the Executive Committee (but not unanimous) that such a man be hired. When all the facts were presented to the Council, it seemed fairly apparent that improved management of the National Office was to be desired. The big question then centred about whether we were big enough to require a man of the same calibre as organizations such as the American Society of Mechanical Engineers and others. I felt that the time for such a move was not yet here and that we were trying to run before we had learned how to walk properly. An oral vote was taken with those in favour of hiring an executive director winning out by a fairly close margin. It was rather surprising the motion did not go to a recorded vote but no one objected to the decision of the president that the oral vote was in favour of the motion. While I still believe I was right in voting against the motion, I am prepared to abide by the majority decision.

There were two other items in which the Sarnia Section was particularly interested. One concerned a possible increase in fees and a proposed initiation fee of \$5.00 for new members and the other concerned an increased rebate to the local sections. These matters were not acted upon by council, but were referred to the appropriate committees for further review and possible action next year. Therefore, I have very good reason to believe that there will be no change whatever in the amount of rebate or dues at least another year.

With respect to the I.S.A. Journal, Mr. Charles Covey has been appointed manager. He has been acting as part time manager and will take over full time duties on October 4. It is planned to make the Journal self-sustaining including Mr. Covey's salary. The big question is whether the I.S.A. Journal should try to compete for advertising revenue with such well established magazines as Instruments & Automation, Control Engineering and others in the field or whether it should be simply a journal of the I.S.A. activities for our members. I do not believe we are in position to compete with the commercial magazines in this field and recommend that the Sarnia Section make known its feelings in writing to the National Office.

The Council meeting more than any other brought out the fact that council by itself cannot supervise the operation of the Society; even if it meets oftener than once a year, it would not be possible to deal with all the problems that come up. It must establish wise policy for the board to follow and must maintain a very close check

on amendments to the Constitution and by-laws. In addition, through its members on the nominating committee, council must be sure that the very best men are elected to the executive. Then we have to trust the executive to act in the best interests of the Society.

I believe our present executive were unwise in some of their actions, particularly in not keeping council as well informed as they might have. I do not agree with all the actions they have taken, but I do believe that individually and collectively, they have tried to act in the best interests of the I.S.A. taking into account facts available to them and not immediately available to the rest of us.

IN CONCLUSION, I THINK IT IS IMPERATIVE THAT THE SARNIA SECTION AND ALL OTHER SECTIONS MAKE OUR FEELINGS KNOWN TO THE EXECUTIVE AND TO THE APPROPRIATE COMMITTEES ON EVERY MATTER THAT AFFECTS US. WE SHOULD NOT WAIT UNTIL THE ANNUAL MEETING OF COUNCIL TO DO THIS, BUT SHOULD KEEP THEM INFORMED THROUGHOUT THE YEAR OF OUR PROBLEMS AND OUR THOUGHTS ON THE OPERATION OF THE SOCIETY.

(Ed. Note: The above is but a summary of the very detailed report which Mr. Graeb has made to the Sarnia Section. We regret that space does not permit the publication of the whole of the excellent report. More news on this problem will be published in the November issue of the BULLETIN as a report of the special meeting of the Sarnia Section to discuss this problem).

THE SEPTEMBER MEETING

At a well-attended meeting in the Sarnia "Y", some 48 members and visitors of the Sarnia Section, ISA, on Wednesday, September 29, enjoyed a short talk by the Chief Instrument Engineer of Anglo-Iranian Oil Refineries, Mr. S. W. J. Wallis on the subject, "Taking Stock". This had nothing to do with counting up the bits and pieces of a business enterprise, but referred to the summarization of the place instrumentation has reached with a forecast of the future. Mr. Wallis was accompanied by Mr. M. W. Marchmant, the designer of the type of electronic control equipment manufactured by Evershed & Vignoles Ltd., of England, and the Canadian representative of the company, Mr. H. C. Dawson, of Toronto. These gentlemen showed some slides of different control rooms using the Evershed equipment and answered questions from the group.

Mr. Wallis described the problems he had met in the design of the Port Said refinery, which is almost 100% electronically controlled. The greatest problem was not the design of the equipment, Mr. Wallis said, but to get operators to accept and trust such equipment so different from any with which they had worked. When the prospective operators saw plans of the control panel they cried: "How can we operate such a plant when we can't see what is going on?" This referred mostly to the lack of recorders. However, top management had decided they must use it and use it, they did. A year afterwards, these same operators were pleading: "Give us more like this"—which

shows that hide-bound opposition to progress can be overcome.

One of the interesting points brought out by the speaker was that instrument men never appeared in the control room. The operators learned to make their own control adjustments and even to do their own instrument trouble shooting (as far as the control room went). This was made possible by the use of the new electronic equipment with its "trays" which can be changed in 30 seconds and which, because of their reproductibility, make possible changing a part of a controller without the necessity of tuning in the new part. Defective parts are sent to the Instrument Shop where highly skilled technicians repair and calibrate the units ready for service. Normally, one of each of the three components of the controller is kept in the control room and can be changed by the operator.

Questioned on the cost of such equipment, Mr. Wallis answered that the cost of the instruments was about 40% higher than similar pneumatic equipment but cost of installation was about 44% less so that the cost of the installed equipment was no more than conventional equipment. In addition, maintenance costs were considerably lower. In one unit with 30 controllers, in a period of two years' operation, a total of three resistors, four photo-electric cells and ten tubes have been replaced. This is about one-tenth of the normal replacement parts. The meeting concluded with refreshments.

SUN OIL TOUR

A tour of the new Sun Oil Refinery in Sarnia has been tentatively set for Friday, October 29th, at 8 p.m. Special Events Chairman, Warren

McKay has announced. Further details will be announced at the October meeting.

MEETING NOTICE

DATE: Monday, October 25, 1954.

PLACE: Sarnia YM-YWCA

TIME: 8.00 P.M.

SPEAKER: **MR. F. W. KEARNEY**
Field Engineer
Bendix Aviation Corporation
Cincinnati, Ohio.

SUBJECT: **"Application of the Ultra-Viscison"**

REFRESHMENTS

This speaker is being made available through the courtesy of Process Instrument Systems Limited, of Toronto.

WRITTEN ON A ROLL CHART

"The Ulcer House"

(A tragic opera designed to replace Dante's "Inferno")

Foreword: This opera is not to be read quietly or to oneself. Gather into groups or lock yourselves in the bathroom and bellow it out.—H.H.

Scene I

A large control room. The entire rear wall covered with three tiers of recording controllers, circular gauges and vari-coloured lights. It is the quiet hour just at dawn. An operator stands and stares fixedly at the instruments. A second operator sits behind desk, (centre) and stares fixedly at nothing. The first operator turns from panel and sings.

1st OP.

"An operator I, the chief of all the towers,
And in the midnight hours,
I hold unlimited sway,
My fine assistants cheerfully obey my wishes,
And though I'm far from vicious
They see that I get my own way-ay-ay.
They see that I get my own way.

2nd OP.

"Our object so forlorn,
Must die before 'tis born
To run as smooth from dawn to dusk
As we run from dusk to morn.
And even more my friend,
Let's introduce a trend
To run as smooth from Mon. to Fri.
As we run at each week-end.

1st OP.

"My witless friend your heartfelt wish can never be,
You have my sym-pa-thy
But let the matter drop.
There are too many who upset our bed of roses
By meddling with the process
And not knowing where to staw aw-awp.
And not knowing where to stop."

(curtain falls)

Author's note: If the foregoing appears to borrow from the "Mikado" by Gilbert and Sullivan, I can't help it.

Scene II

Same setting as scene 1. The control room populated by a group of ragged, sub-human maintenance men, being detailed to jobs by a harrassed looking individual. A pipefitter steps to front and centre and sings. The refrain taken up by a chorus of maintenance men.

Fitter:

“Now out on the unit,
Are pipes I have fit.”

Chorus:

“Bring wrenches, bring spanner, bring hammer.”

Fitter:

“The tighter I fit them
The more that they drip.”

Chorus:

“Bring wrenches. bring spanner, bring hammer.”

Fitter:

“In competent workmen
I cannot abide,
And stopping these leaks is
A matter of pride.
And everyone knows
That I’ve tried and I’ve tried.”

Chorus:

“Bring wrenches, bring spanner, bring hammer.”

Fitter trudges out with large wrench at the “slope”. Another hard-bitten character steps from group and sings—(Tune similar to “Ole Man River”).

MW.

“Millwrights all work on this blessed unit,
Millwrights all work in our own strange way,
Show me the pump that is running smoothly.
That is the pump I will pack to-day.”

Chorus:

“Now operator!
Block it in!
Don’t take on,
Like it was a sin!
Stop that motor!
Spin that valve!
Gotta be through
By five to twel-el-ve.”

Operators (together)

"We get weary,
 And sick of tryin!
 'Cause no one listens
 To our loud cryin!
 So we'll keep moanin!
 We'll keep on groanin',
 Along."

The maintenance men gradually disperse to their allotted tasks. The worried character, in charge of them, puts aside the permit book and sings. (Melody similar to the "glow-worm")

W. C.

"Go little tradesmen to your task now,
 I have no more of you to ask now,
 Out mid the maze of pipes and towers,
 Waste not the golden day hours,
 On your return you'll hear me say,
 "I wanted it another way."

Enter a seedy, tattered individual, very down-at heel, whose thinning gray locks make an untidy fringe below his battered helmet. He tours the panel, peering near-sightedly at various instruments emitting audible groans and snorts at, to him, appropriate intervals. (Note: Lionel Barrymore would suit this part). He sings:

Graybeard:

"This ole unit's gettin' shaky,
 This ole unit's gettin' old.
 All the pipes are gettin' leaky,
 All the pumps are gettin' cold.
 All the meters misbehavin',
 But I feel no fear or pain.
 There's a supervisor peekin',
 Thru the office window-pane.
 Ain't-a-gon- need me here no longer
 Ain't-a-gon-a need me here no more,
 Ain't got time to fix the meter,
 On that windy upper floor.
 I don't plan to fish the levels
 On those far-off C-2 tanks,
 Ain't-a-gon-a need me here no longer
 I'm gettin' ready to leave the ranks.

An important looking individual enters from left. Graybeard furtively slinks around behind panel at right. The curtain falls.

TO BE CONTINUED.

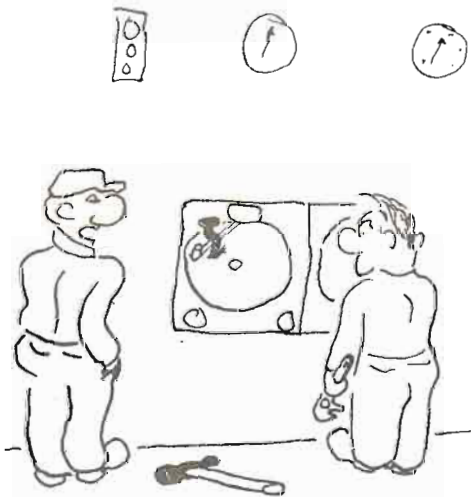
H. Hobbs



THOSE? THEY'RE PIECES OF TUBING HE FORGOT TO PUT A FLARE NUT ON BEFORE FLARING.



IS THAT WHAT YOU CALL CRACKING THE STEAM IN GENTLY?



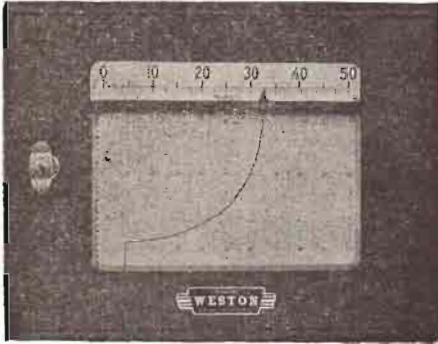
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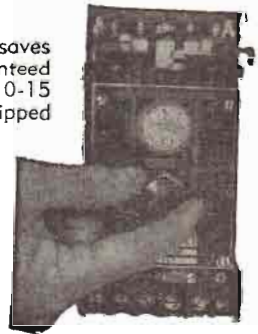
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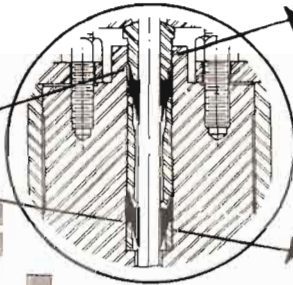
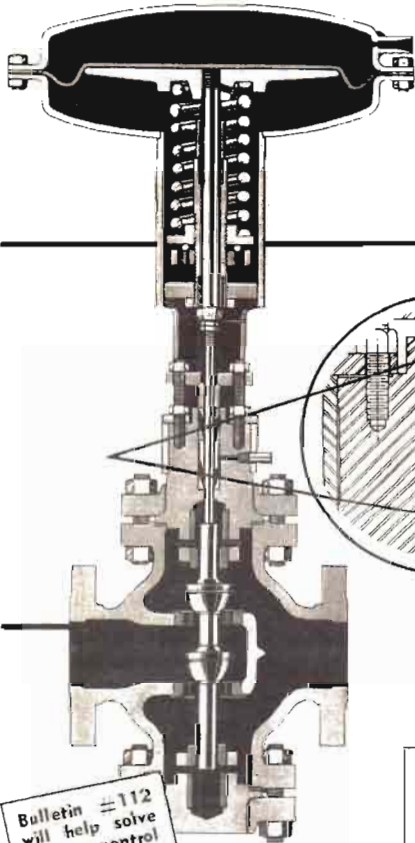
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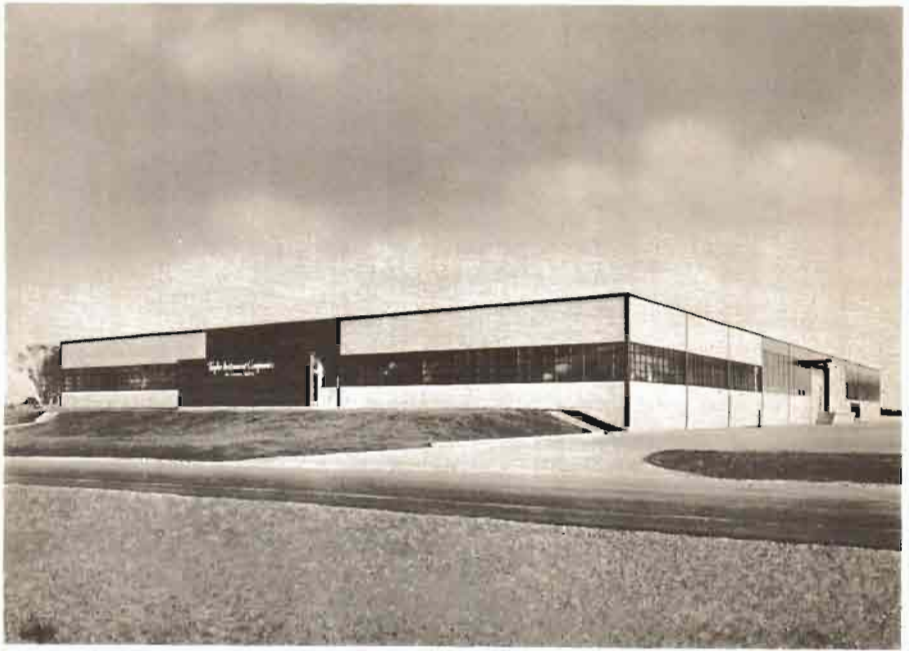
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