

Oct 57

INSTRUMENT
SOCIETY *of*
AMERICA

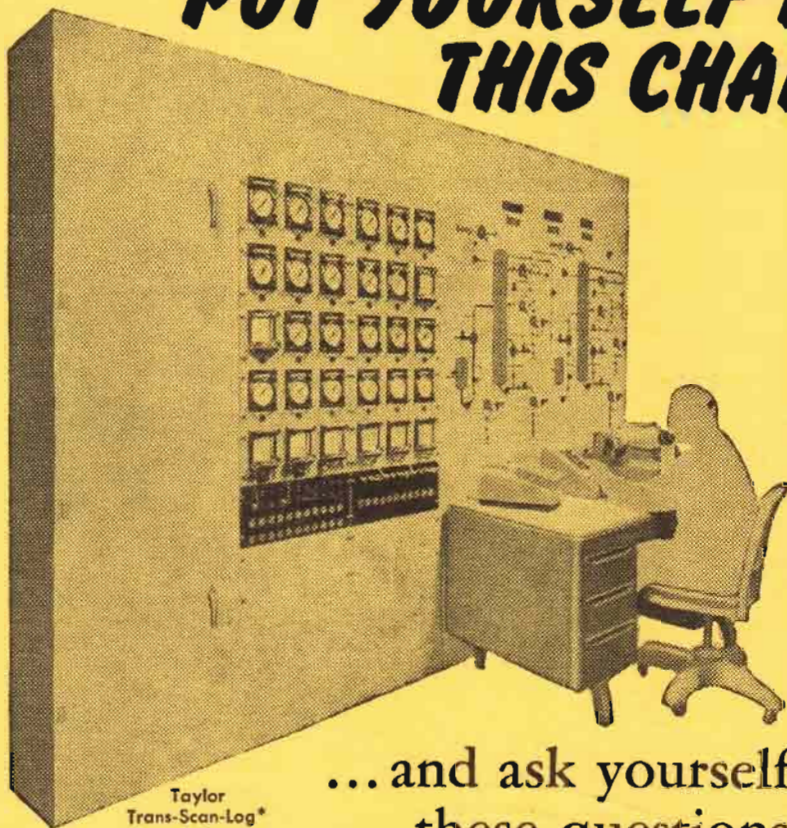


SARNIA SECTION



Monthly Bulletin

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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 1957-58 season are:

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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 Vendome Hotel 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.

Copy for "THE BULLETIN" should be sent to the Managing Editor, Mr. H. Hobbs, 122 Cameron Street, Sarnia, Ontario.

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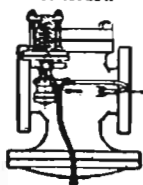
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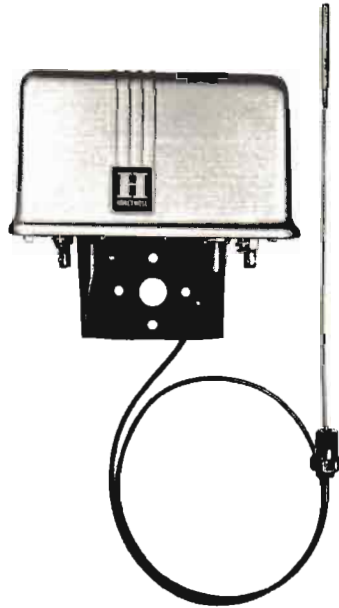
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The "BULLETIN"

VOLUME 7: No. 2

OCTOBER 1957

SEPTEMBER MEETING

Our September general meeting took place at 8 o'clock p.m. on the 23rd, and was attended by about twenty-five members and friends.

We led off with a film, courtesy of Taylor Instrument Company, which in a clear and interesting manner gave an outline of instrumentation and automatic control. While some might feel that this film was a bit basic for our rather sophisticated group, I enjoyed it. Let others reflect that even Mickey Mantle goes to batting practice. This film carried us from the far-away days of the saliva temperature control system, skipped gayly past the now almost forgotten Taylor Aneroid, and arrived, grinning, at the graphic panel and that highly cultured, nervous, delicate, debutante, the Tri-act.

I know that all of us felt a quiet satisfaction in being able to follow this accurate resumé of the advances seen in the last two decades, and were pleased to realize that we, too, had kept pace with each development. Nearly every piece of equipment we saw brought back memories of hours of futility spent in trying to take out S-curves or lining up transmissions. All about me, in the darkness of the meeting room, many a glistening eye betrayed the watcher who recalled his carefree youth, when every instrument shop was sure to have a drawer of slightly used torque-tubes, and also, a multitude of spare links, which, although riddled with holes, never had a hole in quite the right place.

After the film we carried on with regular business, and Ron Asselstine, our President, outlined the main items of value to us, that he learned at the annual Conference and Exhibit. This is explained a bit more fully in the article Ron has contributed to this issue. Ron also mentioned, but all too briefly, the work the executive is doing to help our section. They are a diligent bunch this year and deserve every support and encouragement. The said executive would welcome every suggestion as to nature of meetings, speakers, other entertainment, (e.g. plant tours, etc.) that anyone can come up with. If you have anything constructive, don't keep it a secret.

The speaker of the evening, Mr. R. I. Edelman was introduced by our Program Chairman, Bob Connell.

Bob shed some light on Mr. Edelman's academic background, which is, indeed, an impressive area. He neglected to mention, however, any-

thing on prenatal influence or the effect of being frightened by a business machine.

Most of us, I am sure, went to the meeting with no knowledge whatever of "frequency response" or its value in instrument work. We all came away much enlightened, and with the knowledge that we had been given a penetrating glimpse of what the boys in the back room are doing.

I am afraid that, at a meeting of this sort, where we impose a rather rigid time limit, and where there is a lack of demonstration equipment, we are rather unfair to our speaker.

It is just a little like locking John Landy in a telephone booth and asking him to run a four-minute mile. Mr. Edelman's knowledge of his broad field of research is so detailed and comprehensive, that I had a feeling that it was like forcing Niagara through a capillary tube to keep him so confined and limited. These restrictions do, however, force a complex subject toward its simplest form, and we were able to follow his graphic depiction of some typical control problems, and his analysis of the result.

A very convincing lecture, and I have never seen a more attentive audience. I do feel, however, that even though Mr. Edelman and his colleagues may measure a large number of conditions to arrive at the correct GAIN for every situation, they had better leave us some adjustment in the adjustment. Thank you Mr. Edelman, and Taylor, for an instructive and entertaining time.

It would seem that this meeting is the first move on the part of the executive to raise the calibre of our gatherings. The future promises to be a bright one. Bring your friends, "let culture like the noxious ragweed spread."

—H. Hobbs.

★ ★ ★

NEW MEMBERS

We are pleased to welcome the following new members:

Lorne R. Hawkes, 1110 Lakeshore Rd., Sarnia, Ont., Sun Oil

Norman W. Lay, 1468 Miller Drive, Sarnia, Ont., I. O. L.

George S. Martin, 27 Erlesmere Ave., Brampton, Ont., Thermo Elec.

Grenville James Poole, Box 220, Corunna, Ont.

Ron Read, 85 Lowther Ave., Apt. 805, Toronto, Ont., Taylor

William John Taylor 678 Odell Ave., Sarnia, Ont.

Lorne Hall, 136 Parker Street, Sarnia, Ont.

THE PRESIDENT'S CORNER

By Ron Asselstine

In the previous issue, mention was made of the number of meetings by your Executive Board during the summer months. The proposed changes in the Constitution were largely responsible, and as all members have been informed, I will omit details.

Being your National Delegate, as well as President this months space shall be used to report on the National Conference in Cleveland.

The proposed amendments to classify members and increase dues were held over until next year. A special committee consisting of the six original members and one additional member from each of the ten districts were asked to investigate and report to the National Executive Board in January of 1958.

Proposals to reorganize National Office by departments and divisions, termination of membership and geographical districts were approved. The latter, paving the way for District 10, which consists of all Canadian Sections.

Mr. J. J. Hillen of Montreal was elected District 10 Vice-President. Mr. J. R. Rogers of Toronto to act on special committee investigating membership classification and dues and Mr. J. L. More of Montreal to represent us on the nominating committee.

Each district has a planning council and a meeting will be held in Toronto during the week of October 21st to formulate same. Any member who is interested in attending or who has suggestions, contact one of the Executive.

Members of the Sarnia Section are asked to again study those proposed changes to the Constitution re membership and dues and a special meeting to discuss them will be held if the membres so desire. This is very important to all members and the Executive as it will guide your National Delegate in voting at the 1958 Conference.

★ ★ ★

INSTRUMENTS ARE MY LINE

By E. W. Kirk

After a summer of relaxing (with a foot propped up on a chair), the fall season approaches, and once again I.S.A. activities are beginning to hum. Due to several circumstances, I regret I was unable to assume the Bulletin Editors job, but I firmly believe that none better can be found than Howard to do a fine job.

So much for that, and now a bit of business.

How many times have you had the heart breaking job of starting up a new unit or a revamped one, with hundreds of shiny new instruments and their components, that simply refuse to do the job the ads claim they will do? No matter how carefully the pipefitters install these creatures (some in utterly obscure positions) certain things seem to always foul them up.

We had such an experience last winter, (why units always seem to start up in cold weather is another mystery) and a few points we discovered may be of some value to others.

The main problems, that always seem to come up are (1) Flow meters that don't show a flow, (2) Press meters that don't show pressures, (3) Control valves that simply refuse to pass a flow. Now many things may cause the above conditions, but here are some, perhaps a bit different.

We found that some manufactures use water to pressure test their instrument, prior to shipping. Unless for some reason you have disassembled this meter, you may not know that a small amount of water will become trapped in the bellows or diaphragm chambers, so, when cold weather strikes this meter (whether it be sealed service or not) the water freezes, causing a non operating meter. If you remove it to the shop for a check calibration you will find it to check out alright. We found Larry Hall's system of purging each instrument with a bit of alcohol, worked quite successfully.

Another, quite similar problem, arose from press instruments, only this time instead of water, oil in the press movement became so heavy it restricted the movement, causing faulty readings. We found this was best overcome by mixing the oil in the calibrating equipment with varsol.

Last, but not least, we found that large control valves (especially those on hot services and a bypass open for start up) should be left in a partially open position. Sometimes the heat will cause the valve plug to expand faster than the body, causing it to stick closed if it has been left in a fully closed position prior to start up.

Although it is quite a spell before cold weather (I hope) some of the above might be kept in mind and perhaps corrected before the cold weather does arrive.



PROGRAM CHAIRMAN'S NOTES FOR OCTOBER MEETING

As advertised at our opening meeting on September 23, the topic for discussion at our October meeting will be Transistors. Several of the leading instrument companies are in the process of transistorizing their electrical components, to obtain longer life, reduction in size, and various other benefits. (Note—the vagueness of this last phrase indicates that the Program Chairman could certainly benefit from a discussion of transistors.)

One instrument company who is active in the transistor field is Honeywell Controls Limited. They have kindly consented to lead the discussion for us, and are arranging to have two representatives from their U. S. offices discuss the operation of transistors and their application in the instrument field.

In addition, we are planning to show a Bell Telephone Company film entitled "The Transistor". This film will cover a number of fundamental points on transistors, as an introduction to the discussion.

MEETING NOTICE

TOPIC: **TRANSISTORS AND THE APPLICATION TO
INSTRUMENTS**

SPEAKER: **MR. TOM McGILL**
Union, N. J. Office
HONEYWELL CONTROLS LTD.

DATE: OCTOBER 28, 1957

TIME: 8.00 P.M.

PLACE: VENDOME HOTEL

FILM: **"THE TRANSISTOR"**
(Bell Telephone Company)

WRITTEN ON A ROLL CHART

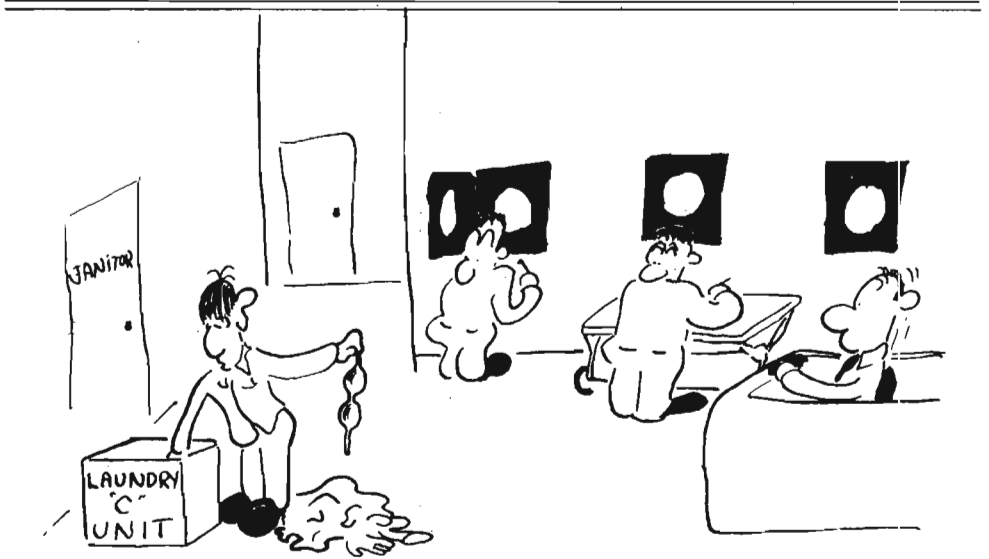
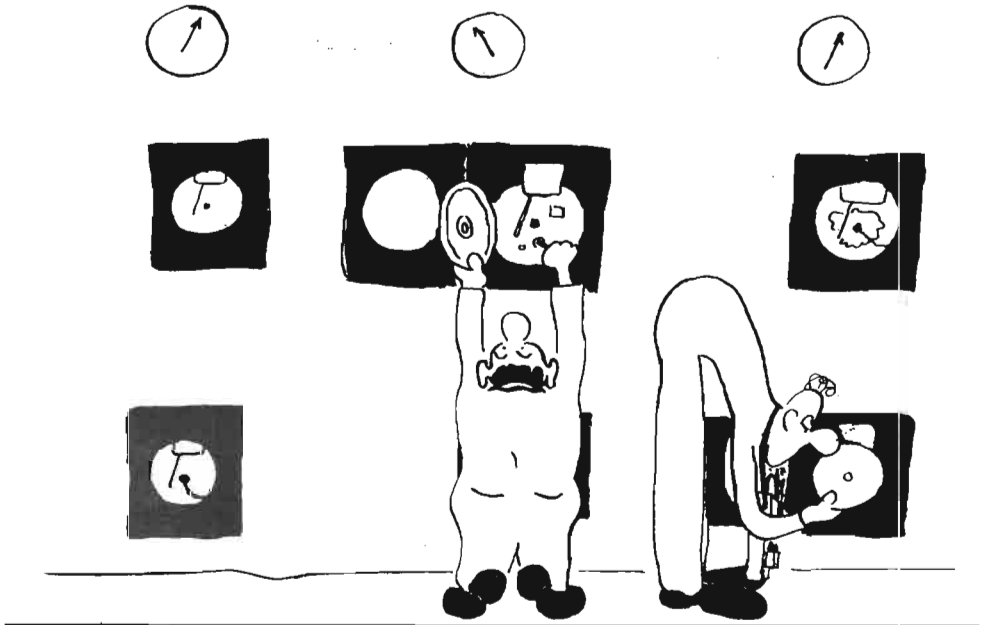
Little one, Little one, why dost weep?
Why dost sob with accents deep?
Why the watering eye so red?
Why the hair like an unmade bed?
Why the sickly waxen pallor?
Faded from its natural yaller.
Why the scarlet nostril-tip?
Why the piteous quivering lip?
Pale and shaken, wan and tense,
End, O end, this great suspense!
Be it horrid, Be it tragic,
Full confession clears like magic,
Bend at once my shell-like ear,
Send your message loud and clear,
I will hearken, I will listen,
Even let a tear-drop glisten,
Lend you sympathy sublime,
Though you're steeped in foulest crime,
Though you've dyed the darkest hue,
Friendship makes me fond of you,
Let me hear the awful truth,
Worried comrade of my youth.
Never, a heart-rendering tale,
Could our great affection fail.
Easier, I always figger,
Separating Roy and Trigger,
Than dividing you and I,
Here's my hanky, wipe your eye,
Blow your nose and swab your chin,
Now let's have that great big grin.
That I've seen you wear, year in year out,
When rampant trouble stalked about,
When time allowed no thought of selves
So many were the sticking valves,
So numerous were the plugging lines
As quills upon the porpentines.
And work and worry all the while
Ne'er wiped away your cheery smile.
So now, I'm really quite dismayed
To see your features disarrayed,
Where erstwhile bloomed your friendly twinkle
Nought but many a sagging wrinkle;

So think of me as a kindly father,
And whisper, if you think you'd rather.

Can this be true? This thing you've said?
Is virtue gone? Is honour dead?
Can human nature sink so deep?
Is justice blind? Or fast asleep?
Stand up, O misbegotten dog!
I would 'twere legal yet to flog.
The water-torture? Too refined!
The thousand cuts is far too kind.
The bastinadoe, wheel and rack,
Display a most important lack
Of adequate severity.
A fit reprisal baffles me,
For this most heinous type of crime,
Unequaled since the dawn of time,
Beside **you**, Doctor Crippen then,
Must seem the friendliest of men,
And Jack the Ripper needs must be,
A model of propriety.
Play the trumpet, beat the drum,
Snip his buttons one by one,
Place him in the hollow square,
Let the carefree children stare
Hold the ladies in their places,
Someone kindly snip his braces,
Break his spanner, jaw from jaw,
Teach him not to flout the law,
And the final, drastic, shock,
Take his combination lock,
Drive him from our midst, of course,
Punished by his own remorse.
If we wish, perhaps he may,
On some SPUTINK fly away.

Did someone at the back not catch
The deed committed by this wretch?
By his own hand he hath betrayed,
The Code of Honour of our trade,
His reason, only he knows best,
But he calibrated at the **first** request.

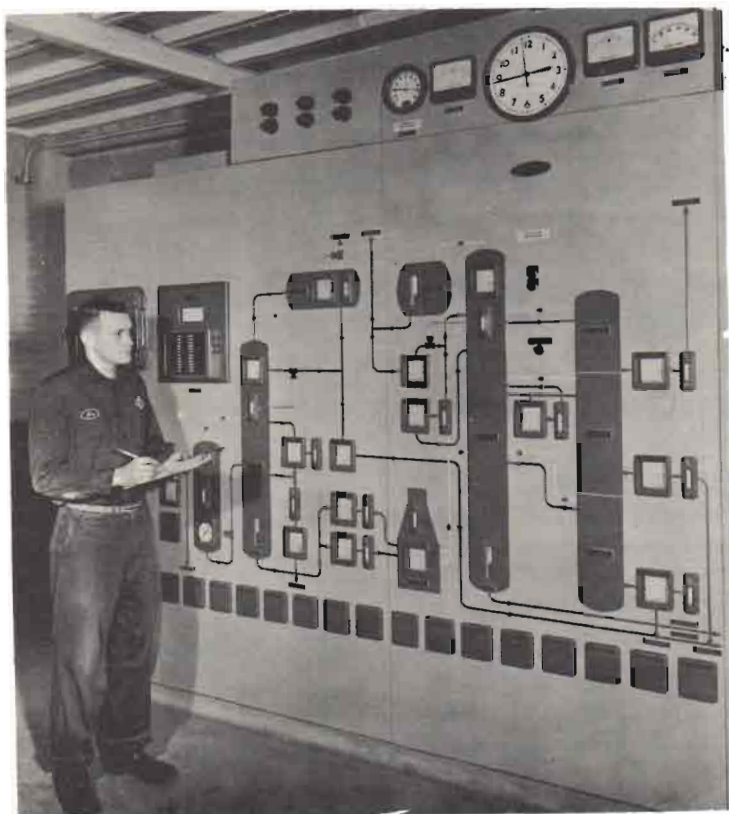
—H. Hobbs.



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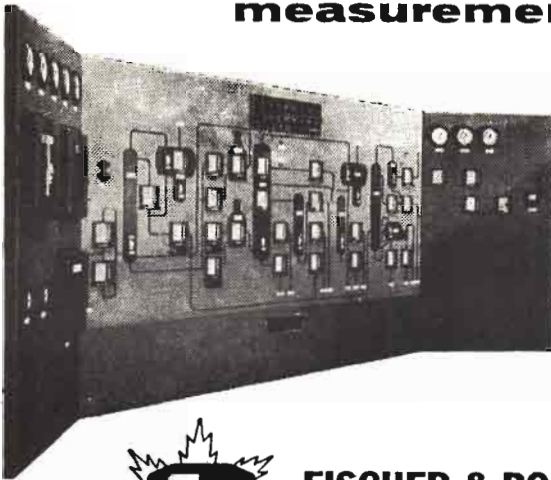
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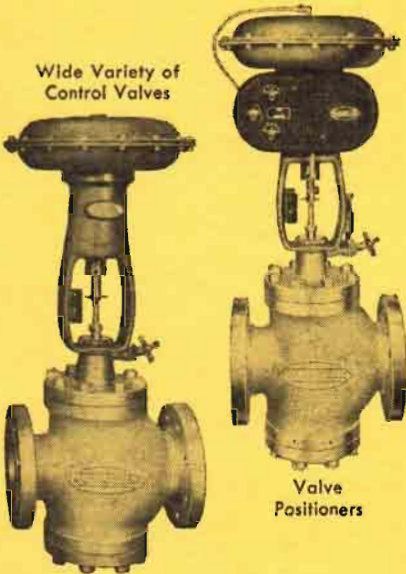
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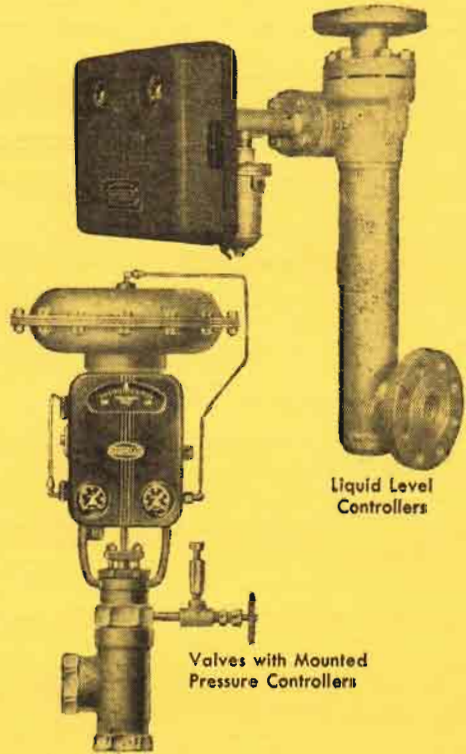


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