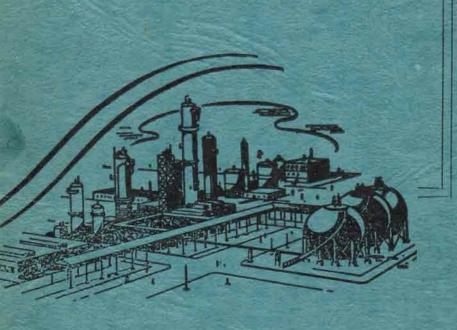
INSTRUMENT SOCIETY of AMERICA



SARNIA SECTION



Monthly Bulletin



AUTOMATIC CONTROL EQUIPMENT

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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

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Vice President WARREN McKAY

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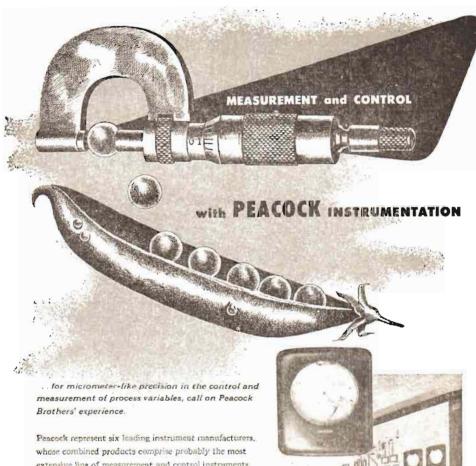
Treasurer LAURIE PARKER

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.

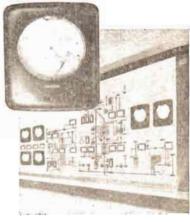
Membership dues are \$12.00 per annum for Senior Members and \$7.50 for Associate Members, and are payable to the Treasurer of the Sarnia Section.

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.



extensive line of measurement and control instruments available . . . for flow, temperature, pressure, liquid level, humidity and other process variables.

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SECTION NEWS

Vol. 2, No. 5.

January, 1953.

I.S.A. SCHOOL

The second (advanced) half of the I.S.A. School is now in progress under the direction of Ken Goldring. Other lecturers for the term will be Bob Connell and Jack Heatley. Classes are being held at the Collegiate each Tuesday and Thursday nights starting at 7.30 p.m., January 6th.

NEW MEMBERS

One new member joined the Sarnia Section during December. We welcome Mr. Roy Hunter, Instrument Fereman, Polymer Corporation, Limited of Sarnia. This brings our total membership to 130.

"WRITTEN ON A ROLL CHART"

There have been several inquiries about the feature article of the "Bulletin" bearing the rather unusual title: "Written on a Roll Chart". title derives from the fact that this article really is written on the back of a used rell chart such as is found on a Brown or L.&N. Temperature Recorder and handed to the secretary te The wit who exaggerates the decypher and type. troubles of the average "Jee Instrument Mechanic" (although he claims straight-faced that there is no exaggeration), is Howard Hobbs, a Journeyman Instrument Mechanic employed (up to now) at Dow Howard derives his inspiration for satire from reading "Li'l Abner" of comic strip fame, of which he is an avid follower. planation is given so that our readers will know that we, the other staff members of this paper, are not responsible for the vituperations of Mr. Hobbs and have no control over his actions.

SECTION NEWS PAGE TWO

WRITTEN ON A ROLL CHART

It is safe to say that all Instrument men are eccentric. Whether it is the environment that pushes the otherwise normal man across the dividing line, or whether there is some fascination about the trade that attracts natural-born crackpots, are questions which I do not propose to discuss. I merely offer it as an undeniable truth backed by ample evidence. Just stop for a moment and consider your associates, one by one, and I am sure you will agree that each is a little off the beam.

If we, the users of instruments, must number ourselves among the unbalanced, and I would be the
last to dispute it, we must reserve an ample
space in the front rank for the makers of instruments. Off in a little group by themselves we
must place the designers of level instruments,
bless their little pointed heads!

You may wonder why I give Honorable Mention to this small segment of the industry. The answer is simple. They are adept at doing things the hard way. Recent experience has shown me that these boys prefer the round-about way of doing everything. They would probably perform a certain intimate function while standing up in a hammock!

We are using one type of level instrument which can only have been evolved in some padded laboratory. The primary element consists of six large balls, (enough for two pawn shops). These are bolted to a spacer which holds the balls equidistant on the circumference of a circle, in which position they may float up and down on the surface of a liquid. The balls carry with them three magnets which are in the centre of the circ-

le and the whole shebang is guided by a threequarter inch stainless steel pipe which dreps vertically from the centre of the tank. This pipe is capped at the bottom and has within it another magnet, complete with little wheels, which is attracted by the outer magnets. This inner magnet is tied to a nylon cord which winds and unwinds from a drum as the level changes. This drum is geared (courtesy of Massey-Harris) to an indicating counter and by a very sturdy linkage to an alleged air transmitter.

Now even if the above contraption worked like the advertising pamphlets said it would, I would be not too fond of it still, because it is far too intricate for what it is doing. If a fly is unkind enough to deposit his waste inside that pipe the little magnet just can't get over the hump. We cured this trouble by filling the pipe with alcohol, (a good cure for many troubles), trusting that the insect population were abstainers. If the cord does not wind properly you have a bellvful of troubles because the machine is built to make this simple task almost a factory job. Everything you don't need to touch is in front. The air transmitter does a splendid job and is only slightly bothered by changes in wind direction.

Well, there you have it; or rather, I have it to love, honor and cherish, and somewhere in his
dimly-lit cell, the madman who produced it is
laughing to himself as he assembles his next
model - probably a steam-powered radar type.
Probably we will buy it; certainly, I will be
stuck with it. The only consolation is that there
are plenty of adjustments. You need every one of
them.

H. Hobbs.

PROGRAM NOTICE

DATE: January 19, 1953.

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

TIME: 8:00 P.M.

SPEAKER: Mr. Harry Hartz,

Application Engineering Dept., Minneapolis-Honeywell Regula-

tor Company.

SUBJECT: "Application of Cascade Instr-

umentation to various basic

processes"

FILM: Yes.

PROGRAM CHAIRMAN'S REMARKS

For our January meeting, we have arranged to have a discussion of one of the more intriguing aspects of automatic control. This concerns the linking of two or more controls to form what is popularly referred to as a cascade control system. The benefits to be derived from cascade systems include, ability to obtain arbitrary settings or to set limits on the secondary controller, to eliminate a load change at its source or to eliminate an undesirable time constant from the process.

The speaker for the evening will be Mr. Harry Hartz, Section Head, Application Engineering Department, Minneapolis-Honeywell Regulator Co. He will discuss his recent paper on cascade control systems. Arrangements were made courtesy of Harry Wilton.

Bob Connell, Program Chairman.



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.

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