

SECY.

OTTAWA VALLEY

ATTENDANCE:

E. Schoenherr

(CHAPTER)

MEMBERS 30
VISITORS 5
TOTAL 35
TOTAL NO. CHAPTER MEMBERS ON ROLL 50

PRES.

THE AMERICAN SOCIETY OF HEATING
AND VENTILATING ENGINEERS

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A CHECK LIST OF ITEMS
TO BE REPORTED

1. PRESIDING OFFICER
2. CALL TO ORDER
(TIME & PLACE)
3. ROLL CALL
4. APPROVAL OF MINUTES
5. REPORTS
6. ELECTION
MEMBERS
OFFICERS
7. OLD BUSINESS
8. NEW BUSINESS
9. SPEAKER
(TITLE)
(BUS.)
(CITY)
SUBJECT
10. DISCUSSION
11. MOTIONS
12. RESOLUTIONS
13. OTHER FEATURES
14. ADJOURNMENT

The regular November Meeting of the Ottawa Valley Chapter was held at the New Prescott Hotel commencing at 7.00 p.m. and was opened by the President with a Toast to the Queen.

Following Dinner the Visitors were welcomed by the President and the minutes of the previous Meeting were read and approved on a motion by Jack Neilans, seconded by I. Goodman.

The President announced that D. W. Banton had been named by the Board of Governors as the Alternate Delegate to the Chapters Conference Committee Meeting to be held in January at Cincinnati, Ohio.

The President reminded the Members of the Annual Christmas Party to be held by the Chapter in place of their Regular December Meeting. Members were urged to attend and bring along their friends.

On a motion by G. Ostiguy, seconded by E. Barber, the Meeting was adjourned at 7.50 p.m. for a 10 minute recess in order to allow the tables to be cleared.

The Meeting was resumed at 8.00 p.m. and the Guest Speaker was introduced by W. Robinson.

The Speaker was Mr. E.W.Duncan, Sales Manager of the Commercial Division of the Minneapolis-Honeywell Regulator Company of Toronto, Ont., who spoke on "Electronic Controls as Applied to Air-Conditioning."

In opening his remarks, Mr. Duncan extended greetings from the Toronto Chapter of the A.S.H. & A.E. of which he is a Member. Continuing, He stated that his subject was basically intended to cover the problem of adequate temperature control of Central Air-Conditioning systems.

Mr. Duncan went on to say that Electronic Controls were not radically new and that many devices had been developed prior to Modern Radar, such as Automatic Temperature Operators and Indicators in Industry for special process machines, back as far as 1939. When to-day's line of Electronic Controls were introduced they provoked the question of "why use something more complicated?" The answer, of course, was that although present electric mechanical controls perform quite well, such equipment has mechanical parts which are subject to complexities of wear and reaction lags.

Mr. Duncan then went on to review Mechanical Electric Proportioning Controls following this by showing how Electronic Controls substituted resistance type controllers utilizing electric coils to replace heavy mechanical contactors. The resistance was varied by temperature changes eliminating lag and moving parts. Such resistance change required only a small electronic change to actuate very sensitive relays at 6/10,000 of a volt. Vacuum tubes thus actuated by small signals operate conventional relays capable of handling actual motorized equipment such as valves and dampers.

Mr. Duncan emphasized the application for multiple staging and sequence control, the very useful advantage of being able to make temperature change settings from a Central Control Panel location.

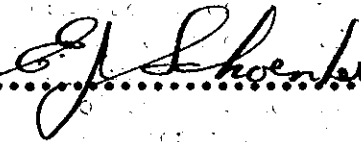
An outside compensator eliminates "off-set" temperature hunting and provides more accurate compensation. Limit discharge compensators eliminate "under and over-shooting" of final temperatures, particularly on ventilating and cooling systems.

In conclusion, Mr. Duncan modestly felt that Electronic Controls filled a need for controls that provided far better "System Stability" and smoother integrated control, most of which could be regulated from a common control dial panel without the cumbersome manual re-settings of controllers spread all around the equipment.

An interesting question and answer period followed.

Mr. Duncan was then thanked for his talk and the answers to the many questions put to him by his audience by Noel Kirby.

The Meeting adjourned at 9.45 p.m.


.....President