



# NEWSLETTER

INFORMATION & NEWS FROM ASHRAE  
OTTAWA VALLEY CHAPTER

MARCH, 1986

P.O. Box 3123 Station "C" Ottawa, Ontario K1Y 4J4

## MEETING

Date: March 18, 1986  
Time: 5:30 - Technical Session  
5:30 - Social  
6:30 to 8:00 - Dinner  
8:00 p.m. - Program  
Place: Cathay House Restaurant  
228 Albert St. (upstairs)

## PROGRAM

Speaker: R. Paul Lambie  
National Sales Mgr., Specialty Chemicals Ltd.  
Topic: Water Treatment Technology

## TECHNICAL SESSION

Start time: 17:40 Hrs  
Finish time: 18:10 Hrs  
Topic: Controls

With the ever changing technologies, is one type of control system (pneumatic, electric, electronic, DDC) better than another? Do we need the finite control offered by the newer systems? Is there pros and cons for all systems? Let's discuss. A representative from MCC Powers will be in attendance to provide the necessary technical input.

## SQUASH NIGHT

Time: Saturday, April 5th at 19:00 hrs.  
Location: RA Centre, Riverside Drive  
Cost: \$10.00

Team competition, all points scored count in the total. Need to finalize numbers now. Refreshments and a cash bar opens at 21:00 hrs. in the Riverside Room. Contact Richard Leduc at 731-7897 days or Jim Mahaney at 560-4799.

## REQUEST FOR HELP ON TELEPHONE COMMITTEE

The telephone committee is responsible for telephoning the Chapter Membership prior to the monthly meetings, with the view of obtaining a reasonably accurate attendance count for the dinner. This committee urgently needs additional callers due to increased membership and guest attendance. Anyone interested in assisting this committee should contact Mike Swayne at 224-8090.

Please give Mike your full support.

## PRESIDENT'S MESSAGE

There are many advantages to belonging to ASHRAE and our rising membership proves that more and more people are sharing this opinion with us. One of the main concerns of practicing professionals is to keep themselves up to date, and our Society plays a key role in this regard. The Handbooks, the Journal, Transactions, the Professional Development Seminars: these are all means of getting information and knowledge about our field of interest.

Once a year the Ottawa Valley Chapter adds another element to this array of educational sources, the Energy Seminar. Many believe that the chapter seminars are a very valuable source of information, and in some ways even unique. Publications by the Society have been long accepted as authoritative in our field, well researched and accurate. It takes quite an effort and considerable time to make them so, the time required from research to publication is not negligible. This is where our seminars come into the picture.

Here is an opportunity to get what amounts to a preview to next year's publications. The dissemination of knowledge by ASHRAE always starts at the local level, working its way up in the system until it finally appears in a national forum. To be really up to date one has to know now what will be next year's news. It seems that energy conservation is not the hot topic that it was a few years ago. Why is then the Energy Committee organizing another seminar? Is anyone still interested? Should anyone be interested? The answer is an emphatic "yes".

The hasty activities aimed at reducing energy consumption and costs have resulted in some problems that are surfacing only now. The speakers at the February meeting dealt with some aspects of environmental health hazards in buildings and it was certainly an eye opener. The responsibilities of mechanical designers, contractors and maintenance personnel are stretching the conventional boundaries of technical knowledge. The days of isolated practice are rapidly coming to an end for HVAC professionals, if they ever really existed in the first place.

The April seminar will be a good occasion to start thinking about our profession in a new and exciting way, as being truly part of the society that we are dedicated to serve.

Gabriel Laszlo

## RESEARCH PROMOTION

This year's Research Promotion campaign will be kicked off at the March Chapter meeting. Fifteen investors from Ottawa area will be presented with a certificate of appreciation.

Frank Vaculik, Chairman Research Promotion

## NOMINATING COMMITTEE

This year's nominating committee is now working hard to select Chapter Executive for operating year 1986-87. Members of this committee are: M. Acton, G. Carscallen, J. Gregory, K. Murfin and F. Vaculik.

Nominations will be presented at the March Chapter meeting. If you have a name of a Chapter member who agrees to work on the next year's executive, please contact any of the committee members before March 18, 1986.

Frank Vaculik

## IEEE VIDEOCONFERENCE

The Ottawa Section of IEEE in cooperation with the National Research Council will present a videoconference on the Applications of Artificial Intelligence. The event will be held in Building M-50 of the NRC Montreal Road campus on March 18, between 11 a.m. and 4 p.m.

For additional information contact Mr. Adam Znaniecki at 523-1023, or Mr. Philippe Davidson at 993-2007.

## PROFESSIONAL DEVELOPMENT SEMINARS

There will be three ASHRAE Professional Development Seminars held in the spring of 1986 in Region II:

April 10-11, Quebec City: Simplified Energy Calculations

May 1-2, Halifax: Air Systems Design

May 5-6, Ottawa: Testing, Adjusting and Balancing

For further information refer to the ASHRAE Journal or contact the Chairman of our Education Committee, Pierre DeGagne, at 733-4160.

## SCIENCE FAIR AWARDS

Ottawa Chapter will present special awards for projects related to ASHRAE interests at the Ottawa Regional Science Fair to be held April 11 to 13 at the National Museum of Science and Technology. The fair is an annual exhibition of grade 7 to 13 science projects. Last year we presented awards to Shawn Mincoff of Greenbank School for a solar water heater project and to Derrek Kuhn of St. Paul School for a home self-sufficiency project.

## CURLING

The Annual Curling Bonspiel will be held Friday, March 21 at the Rideau Curling Club (715 Cooper) from noon to 5:00 p.m. Dinner will be at 6:00 p.m. at a cost of \$25.00 per person. For those wishing to attend the dinner only, the cost will be \$17 per person.

## VCR TAPE LIBRARY

The following tapes may be borrowed from our library: Forgotten Fundamentals of the Energy Crisis (VHS, BETA). ASHRAE's Chapter Program for Professional Excellence (VHS) Presidential Message 1985/86 (VHS)

Something New: A listing of 147 videos, films and slides on the subject of energy. This listing was prepared under the auspices of our chapter's energy committee, and published by Energy, Mines and Resources Canada. The "List of Energy Conservation Audio Visual Production compiled by Building Energy Technology Transfer (BETT) Program" is now in our library.

Please contact Bill McKinnon, 731-8720.

**February 18, 1986 Meeting: 20th Century Diseases/Building Design** .... an examination of allergies, chemical sensitivities, research notes on clothing as well as food effects on humans. It became evident that all of us have some form of environmental sensitivity which can affect us quite seriously at times. Linda Brooks recounted her own experience which allowed her chemical balance to return only after complete isolation and serious reselection of natural foods. The Ontario Government Thompson Commission which conducted research on human toleration of chemicals advised it is possible that at present no safe levels exist. Destabilizing elements for the body are emotional/psychological stresses or pesticides, chemicals, air quality, each of which could reduce resistance to the chemical environment. The body then reacts with a display of allergies or abnormal responses. Return to a more stable condition is possible by introducing a controlled quality food intake, higher or variable ventilation rates, better air filtration, operable windows, architectural design which improves light and ventilation. Studies in off-gassing new buildings in Sweden showed remarkable results when air-flow/ventilation increased during an unoccupied run-in period. It was noted that correct application of present standards and proper maintenance would improve conditions in buildings but that the chemical element sometimes gave negative results which are completely unpredictable. A great deal of study is still necessary to make us aware of these product limitations.