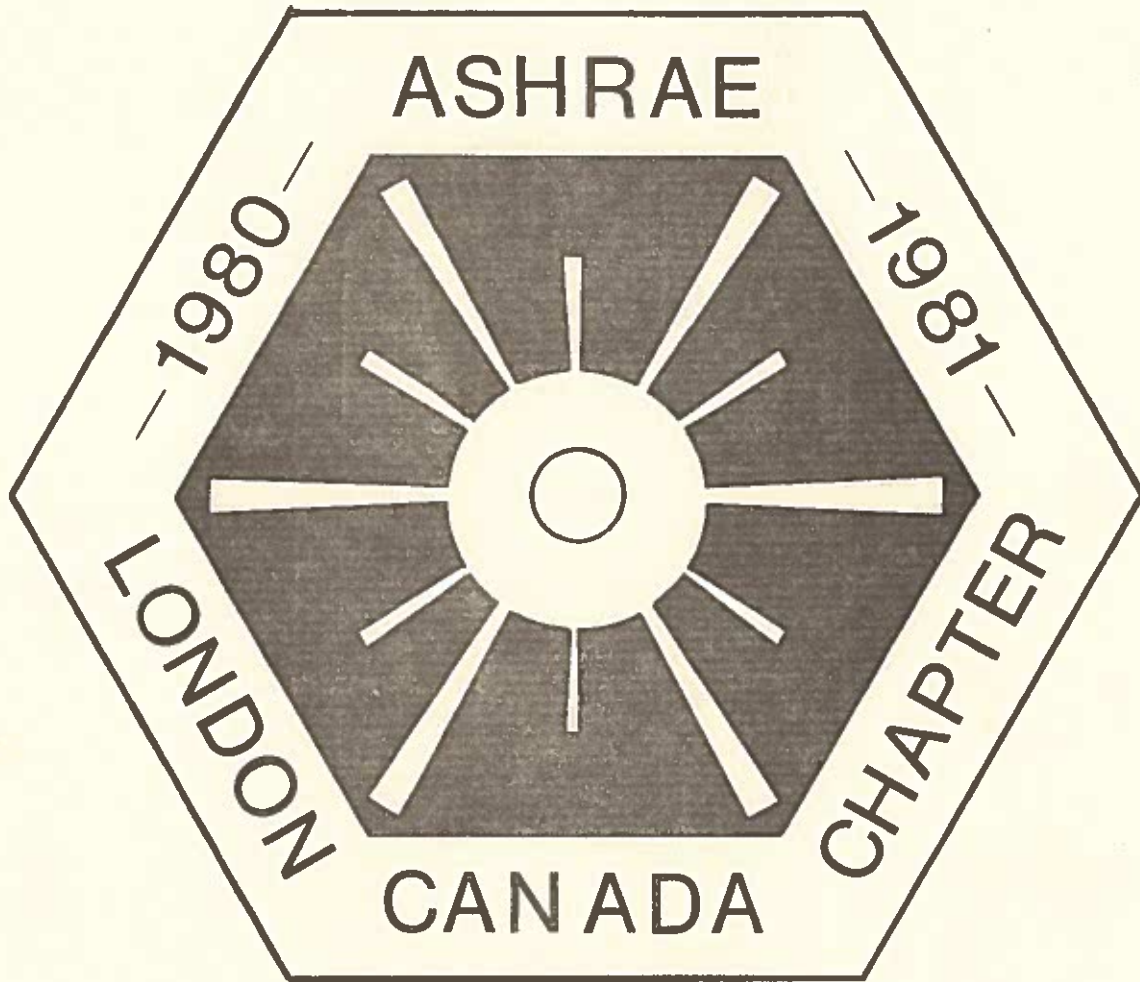


CRC REPORT
1980-1981



REPORT
TO
CHAPTERS REGIONAL CONFERENCE
MONTREAL, QUEBEC
MAY 27-30, 1981



REPORT
TO
CHAPTERS REGIONAL CONFERENCE
MONTREAL, QUEBEC
MAY 27-30, 1981



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AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.



ASHRAE LONDON CANADA CHAPTER
BOARD OF GOVERNORS 1980-1981

PRESIDENT	:	Bill Rutherford	652-5047
VICE-PRESIDENT	:	John Watson	679-5120
SECRETARY	:	Vernon Clark	686-9701
TREASURER	:	Doug Troupe	438-3893
PAST-PRESIDENT	:	Chuck Sharp	673-0300
ATTENDANCE	:	John Watson	See above
AUDITING	:	John Watson	See above
CRC (DELEGATION)	:	Bill Rutherford	See above
CRC ACTION	:	Chuck Sharp	See above
EDUCATION	:	Len Swallow	452-4126
ENERGY MANAGEMENT	:	Walter Lucas	685-0400
FINANCE	:	Doug Troupe	See above
LEGISLATION	:	Peter van der Westen	652-5047
MEMBERSHIP	:	Bev Gloin	452-4330
NOMINATING	:	Wayne Barker	453-0910
PROGRAM	:	John Watson	See above
PUBLICITY	:	Don Johnson	652-5047
RECEPTION	:	Bert Fenner	652-3631
RESEARCH PROMOTION	:	Chuck Sharp	See above
SPECIAL EVENTS	:	John Gomm	472-6410
TECHNICAL	:	Paul Monaghan	679-8660
HISTORIAN	:	Bert Fenner	See above
NEWSLETTER	:	Jeff Haywood	652-5047



CHAPTER REPORT

The London Canada Chapter began its 1980-81 year with a Board of Governors meeting held June 19, 1980. At this meeting all committees, except the Legislation committee, were formed.

Only three of the committees, the Education, Membership and Social Committees, were chaired by their incumbent chairman. The chapter added a CRC Action, and a Technical committee to the chapter organization for the first time this year.

The resignation of Earl Dawson, Don Morton, Bob Moore, Don Tait and Dick Palser from the chapter executive and committees provided an opportunity for a number of chapter members to participate more fully in the chapter operations. Unfortunately a great deal of experience was lost and extra effort was required from each of their replacements. The further loss, this year, of John Watson, Vernon Clark, Paul Monaghan, Bev Gloin and John Gomm has created a serious gap in the leadership of London Canada chapter.

This is obviously our most serious problem. The nominating committee, together with the Past Presidents and the current Board of Governors met on two separate occasions to determine the best course of action for the chapter. John Payne, a Past-President, has agreed to act as interim president for the year 1981-82 (if elected) with the strong support of the remaining Past-Presidents. Dick Palser, a charter member, and past chairman of the membership and publicity committees has agreed to stand for Vice-President.

Attendance at chapter meetings dropped off seriously in this year, in spite of an excellent and well received program. As well, membership in the local chapter, dropped from 51 last year to 44 for 1980-81 (not including out-of-town members). These problems may be attributed to:

1. Chapter Mailings: The newsletter is sent only to chapter members, and was late more times than not (ie. received the day of the meeting or the Friday before). A goal of having the newsletters in members hands one week prior to the meeting should be set by the new executive. Mailings should also be extended to all society members, other chapters, larger industries, institutions and radio stations to improve membership and attendance. This is the substance of a recommendation to the CRC by Bill Rutherford.
2. Cost to Members: Chapter dues this year were \$55.00 plus \$3.00 registration at each meeting attended (\$79.00 total) which is up \$24.00 or 43.6% over last year. This increase is due mainly to the increase in cost of meals for the prepaid meal plan. The format of the meeting or the method of payment for meals must be closely reviewed for next year.



CHAPTER REPORT (Continued)

On the positive side: our Research Promotion and Membership committees fared well this year with excellent increases in each area; the Legislation committee was activated mid-year to respond to a proposed city by-law; and the Technical committee has taken a number of steps toward improving the technical content of our meetings.

A handwritten signature in dark ink, appearing to read 'W.A. Rutherford', written in a cursive style.

W.A. Rutherford
Chapter President



PROGRAM COMMITTEE REPORT

The chapter Vice-President, Captain John Watson, was responsible for the 1980-81 chapter program as committee chairman. As we established in 1979-80, various committee chairmen were assigned meeting nights to promote the activities of their committees. Each chairman was responsible to John Watson for speaker arrangements, while John maintained our program continuity by arranging meeting locations, dinners, etc.

Our April field trip to Windsor was surprisingly well received by society members in the area. Their turnout matched the chapter members turnout 2 for 1!

The summary of the chapter program below also indicates the meetings format that we have adopted and plan to continue.

Date	Topic	Attendance	
		Members	Guests
Sept. 22	Opening Night: Practical Guide to Water Conditioning	34	3
Oct. 27	Membership Night: High Efficiency Condensing Furnaces	33	4
Nov. 4	Ladies Night: Kitchen Appliances - Trends and the Effects of Energy Shortage	24	25
Jan. 29	Research Night: Potential of Fusion Research in Canada	31	5
Feb. 23	Energy Management Night: 3M's Success at Energy Conservation	27	6
Apr. 6	Students' Night: Presentation of Students' Papers	31	12
Apr. 27	Field Trip: Tour of Chrysler Plant and HVAC Research at Univ. of Windsor	16	34
June 1	Annual General Meeting: Problems and Solutions Regarding Steam Boilers	-	-

Capt. John Watson
PROGRAM COMMITTEE CHAIRMAN



EDUCATION COMMITTEE REPORT

May 21, 1981

The London Canada Chapter area includes two universities and one technical college which offer ASHRAE related courses of study. These institutions, and the number of students enrolled in each are as follows;

University of Western Ontario	50 students
University of Windsor	40 students
Fanshawe College of Applied Arts & Technology	60 students

Liason was maintained with each of these institutions through;

- Professor R.K. Swartman, U.W.O. (chapter member)
- Professor W. Colborn, U. of W.
- Professor T. MacDonald, U. of W.
- Mr. Len Swallow (chapter member)

Two awards were presented at the Student Night to Miss L. Leipceiger and Mr. P. de van der Schoeren in the amount of \$25.00.

A technical seminar on the topic "Heat Reclaim Techniques" was conducted at Fanshawe College by Walter Lucas, Chairman of the Energy Mangement Committee.

In summary, PAOE pints for the year to date should be calculated as follows;

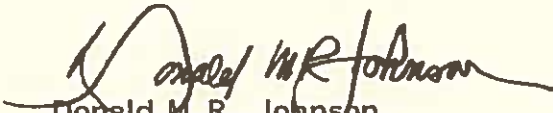
Faculty Liason	$4/3 \times 75$	= 100
Student Incentive	$2/3 \times 65$	= 44
Student Members	$78/150 \times 900$	= 90 (maximum)
Seminars	3×7.5	= 22.5
Career Guidance		0
Secondary School Incentive		<u>0</u>
		256.5

L. Swallow
EDUCATION COMMITTEE CHAIRMAN

ACHIEVEMENTS

1. Three announcements or short articles were printed. Other articles were submitted and may or may not have been printed.
2. We achieved good coverage for the Hydrogen Symposium in our work as part of the publicity committee and provided a strong ASHRAE input along with Mr. William A. Rutherford (President, London Chapter).
3. Some progress has been made with establishing liasons with the London Free Press and Western Ontario Business News only.

Report submitted by:


Donald M.R. Johnson,
Public Relations Chairman

DMRJ/jj



**vanderwesten and
rutherford limited**

CONSULTING ENGINEERS
MECHANICAL - ELECTRICAL

P. VAN DER WESTEN
W. A. RUTHERFORD, P. Eng.
J. J. PAYNE, P. Eng.
E. W. PEARCE, P. Eng.
L. R. SMITH
J. G. HAYWOOD, P. Eng.

May 13, 1981

ASHRAE London Canada Chapter,
P.O. Box 653,
LONDON, Ontario.
N6A 4V8

Attention: Mr. W.A. Rutherford, P.Eng.
Chapter President

Dear Sir,

Re: REPORT FOR YEAR 1980/1981 - PUBLICITY

SOCIETY OBJECTIVES

1. To inform the following groups about ASHRAE's program: Employers and potential employers of ASHRAE members; buyers and potential buyers of heating cooling, refrigerating, and ventilating services; legislators and civil servants concerned with building codes and other laws and regulations in our field; wives, children, and friends of ASHRAE members; and community leaders and others in a position to influence public opinion.
2. To attract bright and promising young people to our industry.
3. To honor leaders in our industry.
4. To help bring new members into ASHRAE.
5. To support efforts to raise money for ASHRAE research.
6. To win respect for ASHRAE members and for our industry.
7. To sense problems before they emerge so that they can be dealt with sooner rather than later.

CHAPTER GOALS

1. To publish five articles and announcements in the London Free Press, other newspapers and periodicals.
2. To establish a good working rapport with local news persons.

.... 2

Report for CRC 1980-81 (LONDON CHAPTER)

Research Promotion

Our goal for this year is \$2,060.00 which is 60% above our achievement last year. Our campaign was formally initiated in January at our Chapter Meeting which was organized by our committee and included a guest speaker from Ontario Hydro speaking on nuclear research. At that meeting we made a presentation on behalf of ASHRAE Research and showed the current slide presentation.

Since that time letters have been sent out to previous investors and a special letter to prospective new investors. In both cases we enclosed the new ASHRAE Research Canada flyer which has been most helpful. These letters are being followed up by personal contact.

This year we held our April Chapter Meeting in Windsor and took that opportunity to promote ASHRAE Research in that area which has been somewhat neglected in the past. This has already resulted in some new investors.

As of early May we have achieved over 70% of our objective and expect to reach our goal by the time of the CRC in Montreal. Our Research Committee Chairman plans to attend that session at the CRC in Montreal.



C.L. Sharp
Research Committee Chairman

1. Some of those listed took the necessary action to gain membership in good standing.
2. A number of persons asked to have their names withdrawn from the roster, indicating that they may care to reapply at a later date.
3. Some persons could not be located and the society was requested to withdraw the names from the membership list.

General Comments

It would appear that the most effective manner in which to gain new members is by personal contact on a one-to-one basis. Most requests for membership result from the activities of members whose normal business associations bring them into contact with prospective members. Members should be encouraged to bring guests to chapter meetings and thus introduce others to the fellowship and technical advantages of membership.

It is essential and appropriate that note is made of the contribution of Joy Pryce of this office in maintaining the membership filing system and preparing much of the correspondence.

Yours truly,

BGP / Joy Pryce

B.G. Gloin, P. Eng.
Membership Chairman - London Chapter
A.S.H.R.A.E.



1981 05 13

Mr. William Rutherford
Vanderwesten & Rutherford Ltd
36 Talbot Road S
Lambeth, Ontario
N0L 1S0

Dear Mr. Rutherford:

This report reflects the membership activity for the period July 1, 1980 to date. The target for new members established for this chapter was 7 and the following summary of statistics is an attempt to clarify the present membership totals.

<u>Names of New Members</u>	<u>Date of Correspondence Indicating Membership</u>
J. Santilli	Mar 1981
L. Bezaire	Feb 1981
R. Barker	Jan 1981
P. Golem	Jan 1981
D. Tregenza	Jan 1981
J. Shiu	Dec 1980
L. Fodor	Dec 1980
E. Black	Dec 1980
D. LeMay	Oct 1980
D. Clement	Oct 1980
P. Domouchel	Oct 1980
K. Magoon	Sep 1980
R. Ferguson	Jul 1980

In addition 7 membership applications have been forwarded to prospective new members.

The delinquent list revealed a total of 14 persons on July 1, 1980. Three courses of action have now reduced the delinquent list to zero.

Page Two - continued
Energy Management Report 1980 to 1981

An Energy Awards Programme is presently in the process of being implemented. To date the Board of Governors and the Committee Chairman have been unable to formulate the requirements to qualify for winning this award but progress is being made in that area. A Sponsor has been found to donate the Energy Award at such time that the guidelines have been determined.

A jointly sponsored Hydrogen Symposium was organized by the London Chapters of CIC, APEO, IEEE, and ASHRAE. The seminar outlined the production storage and uses of hydrogen as an energy source for the future with one emphasis being its utilization in the HVAC field. Speakers from across North America presented papers to an audience of 78 people.

The preceeding is a summary of the activities of the Energy Management Committee terminating prior to the CRC in May of 1981.

W.P. Lucas

W.P. Lucas,
Chairman, Energy Management Committee



May 20, 1981

Vanderwesten & Rutherford
36 Talbot Rd. S.
Lambeth, Ontario
NOL 1S0

Attention: Mr. Bill Rutherford

Reference: Energy Management Report 1980 to 1981

During the past year, members of the committee produced two talks promoting awareness in the Energy Conservation field.

The first talk was presented during the last quarter of 1980 to the graduating class of Architectural Technology students at Fanshawe College. The slide presentation was based on Ashrae Standard 90-75 prepared by the sub-committee of the Energy Conservation Committee.

The second presentation was also made to Fanshawe College but to their Heating, Ventilating and Air Conditioning Technology students (3rd year). This open discussion covered Energy Conservation through the re-using of warm air exhaust and detailed the different devices available to capture this exhausted energy. The presentation was highlighted with slides of the actual hardware being discussed.

At both presentations literature was left for the participants to further educate themselves on the subject.

A paper entitled "Re-Use Your Exhaust Warm Air" was presented to Western Ontario Business (a business newspaper circulated widely within Southwestern Ontario) as an energy article for publication. For a number of reasons publication of this article in a modified form is not due until Western Ontario Business Energy Publication scheduled for May 26, 1981. A staff writer from WOB has the project in hand and shall be producing the modified version at a level he feels his readership will understand.

Other small articles have been submitted to both Western Ontario Business and the London Free Press for publication with limited success to date.

continued-----



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rutherford limited**

CONSULTING ENGINEERS
MECHANICAL - ELECTRICAL

P. VAN DER WESTEN
W. A. RUTHERFORD, P.Eng.
J. J. PAYNE, P.Eng.
E. W. PEARCE, P.Eng.
L. R. SMITH
J. G. HAYWOOD, P.Eng.

ASHRAE London Canada Chapter,
P.O. Box 653,
LONDON, Ontario.
N6A 4V8

Attention: Mr. W.A. Rutherford, P.Eng.
Chapter President

Dear Sir,

Re: LEGISLATION COMMITTEE REPORT

The ASHRAE LONDON CANADA CHAPTER LEGISLATION COMMITTEE was formed in response to a letter circulated by the City of London Building Inspection Division. In this letter the City announced its intention to require design data, including calculations, for all projects submitted for building permit applications.

Our committee members: Peter van der Westen, John Bisset, P.Eng., Bob Moore, P.Eng., and Dave Richardson, met on December 17, 1980 and after a general discussion decided to respond in writing to the City. Our response was reviewed by the City and the requirement for submission of design data for all projects was modified.

The revised requirement stipulates that projects which are under the City's jurisdiction of Part 9 of the Ontario Building Code must be accompanied by design data submissions.

Projects that are governed under Part 3 of the Ontario Building Code and which are presented under the seal of a professional engineer may require the submission of design data if, in the judgment of the City, circumstances warrant.

No other items were considered by this committee.

P. van der Westen
Committee Chairman

PvdW/jj

1980 - 81 TECHNICAL COMMITTEE REPORT
FOR LONDON ASHRAE CHAPTER

Things We Set Out To Do

1. Set up table top displays at each meeting.
2. Help organize the Hydrogen Symposium at University of Western Ontario.
3. Get talks that appeal to members (in particular try to get more members interested from the building owner and contractor areas). Try to get the program planned in a longer term.
4. Get local people to give some comments on their own actual experience on the same topic as the speaker's talk.

Results

1. We were slow getting started on table top displays because I felt that the display should relate to the speaker's topic. However, Alan Oakes suggested that the Toronto Chapter had successfully operated table top displays without this restriction. Here is what has been achieved since January:
 - .1 A standard questionnaire and letter has been drawn up and agreed to by the Board of Governors.
 - .2 This questionnaire was sent to 23 product/service people who are ASHRAE London members (as a first round of mailing).
 - .3 Walter Lucas of Temprite will present the first table top display on heat recovery equipment at the May meeting.

One problem I encountered was that the response to the questionnaire was very poor. I don't know why.

2. Overall the Hydro^{gen} Symposium was a success. We had a good ASHRAE speaker - Ulrich Bonne from Honeywell, Minneapolis.
3. Long term program planning did not really get anywhere. Coordination with the Program Chairman was difficult because he was under pressure to get speakers at short notice.

/continued

Results - continued

4. At the first meeting of the year (water treatment), I tried to get people such as building owners, equipment suppliers and contractors to give their views on their experience. I was not able to get people talked into this.

Suggestions For The Future

1. Have table top displays. Follow up letters with phone calls to local ASHRAE members. Also, send requests for table top displays to Canadian Head Offices.
2. Co-operate in future events like the Hydrogen Symposium. It is not difficult to set up a speaker and it is good exposure for ASHRAE.
3. Give the Technical Committee responsibility for long term program planning. The Program Committee Chairman would still retain responsibility for each year's program. The Technical Committee would be responsible for finding out what the members want (by questionnaires, for example). At the end of the year he should give, to the incoming Program Chairman, his ideas on next year's talks.
4. Let local ASHRAE people ask questions if they want to (Don't try to talk them into it).

Signed Paul F. Monaghan
Paul F. Monaghan
Technical Committee Chairman

PFM/deg

MINIMAL STANDARD CHAPTER CRC REPORT FORM

REPORT TO REGION II CRC CONFERENCE CHAPTER London Canada No. _____

Date May 19, 1981 City London State Ont. SOCIETY YEAR 1980-1981

<u>MEMBERSHIP</u>	<u>July 1/80</u>	<u>Current</u>	<u>PAE Points</u>
Assigned Members	<u>103</u>	<u>110</u>	to Date <u>259</u>
Student Members	<u>Unknown</u>	<u>25</u>	or
Chapter Members	<u>51</u>	<u>4</u>	as of previous
New Members to Date		<u>13</u>	June 30 _____
Members Delinquent to Date		<u>0</u>	
Number of Upgrades		<u>1</u>	
Date of Membership Night		<u>Oct. 27/80</u>	
Guest Attendance		<u>4</u>	

<u>EDUCATION</u>		<u>PAE Points</u>
Name(s) of Student Branch	<u>None</u>	to Date <u>250</u>
Student Night? <u>Apr. 6/81</u>	<u>Student Attendance 12</u>	or
Scholarships? <u>None</u>	<u>Dollar Value n/a</u>	as of previous
Grants in Aid? _____	<u>Dollar Value n/a</u>	June 30 _____
Special Activities (describe)	<u>Lectures to Fanshawe College students on HVAC related subjects, presentations to local service clubs</u>	

<u>RESEARCH FUND RAISING</u>	<u>Last Year</u>	<u>This Year</u>	<u>PAE Points</u>
Quota	<u>1500</u>	<u>2640.00</u>	to Date <u>213</u>
Number of Contributions	<u>18</u>	<u>10</u>	or
Dollar Value	<u>1283</u>	<u>1915.00</u>	as of previous
Dollars per Member	<u>10.1</u>	<u>17.41</u>	June 30 _____
Special Activities or Comments	<u>Research promotion night held January 29, 1981 to initiate final drive of campaign.</u>		

<u>ATTENDANCE & PROGRAMS*</u>	<u>Last Year</u>	<u>This Year</u>	<u>PAE Points</u>
Number of Technical Programs	<u>8</u>	<u>8</u>	to Date <u>219</u>
Total Number of Meetings	<u>8</u>	<u>8</u>	or
Average Meeting Attendance	<u>44</u>	<u>37</u>	as of previous
Number of Pre-Dinner Sessions	<u>0</u>	<u>9</u>	June 30 _____
Best Program		<u>Apr. 27/81</u>	
Comments on programs, speaker lists, etc.	<u>Program well received by participants, good variety.</u>		

*Excluding social functions

- ENERGY MANAGEMENT
- 1) Talks to local student groups.
 - 2) 1-Day Hydrogen Energy Symposium co-sponsored by the London Chapters of ASHRAE, IEEE, CIC, and APEO held May 1, 1981 at University of Western Ontario, attracted 78 participants. ASHRAE topic given by Dr. Ulrich Bonne, Chairman TC 3.7

FINANCES

	Last Year	This Year
Reserve Funds	656.45	500.00 approx.
Current Balance	1,055.58	1,674.55
Membership Fee	55.00	
Member Cost of Meals	Incl. above	Incl. above
Guest Cost of Meals	10.00	10.00
Cash Bar?	Yes	Yes
Package Plan? Details	\$55.00 membership plus \$3.00 registration per mtg.	
Other Sources of Income?	Symposium	Describe \$100.00 estimated

Special Projects or Programs Funded? None Describe _____

SOCIAL FUNCTIONS: (List and comment briefly)

- Fishing day - July 23, 1981: annual event
- Sports day - September 23, 1981: annual tennis & golf tournament
- Ladies night - November 24, 1980: best attendance of year

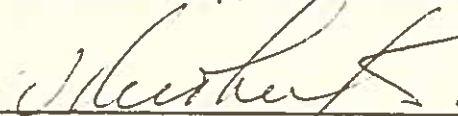
CRC ACTION COMMITTEE PROPOSALS:

CHAPTER PROBLEMS:

1. Local membership has dropped off
2. Relocations of chapter officers has depleted our executive for the second year in a row.

CHAPTER INNOVATIONS & SUGGESTIONS:

Suggest serious consideration of the merits of allotting a portion of society dues to chapters on a per member basis to pay for member services such as local newsletters, membership directories, etc. Firmly believe that this will enhance membership, as well as chapter operations.

SIGNED: 
Chapter President

- Attachments:
- 1.) Best Newsletter of the Year
 - 2.) Special Seminar Program
 - 3.) Chapter Information Questionnaire
 - 4.) Copy of Chapter Roster (Optional)
 - 5.) Product Directory (if published)

(Please mail orig. to Hdqrs., green copy to Reg. Chrm as soon as possible with as much info. as currently available. Pink copy for chapter files. Hdqrs & Reg. Chrm to be advised of any & all changes.)

ASHRAE CHAPTER INFORMATION QUESTIONNAIRE

CHAPTER LONDON CANADA REGION II FISCAL YEAR 1981-82

Please note: The addresses given on the Questionnaire are used by Headquarters for matters of chapter business only for the entire fiscal year, and are separate from Journal, Handbook, and miscellaneous mailings. Please notify us promptly of Questionnaire changes.

CHAPTER OFFICERS (Do not use nicknames)

(Include area code when listing phone numbers.)

PRESIDENT

SECRETARY

Name JOHN J. PAYNE
Address: VANDERWESTEN & RUTHERFORD LTD.
36 TALBOT RD. S., LAMBETH, ONTARIO
Phone: N0L 1S0 (519) 652-5047

DOUGLAS J. TROUPE
D.J. TROUPE & ASSOCIATES INC.
827 DALKEITH CRESC., LONDON, ONTARIO
N5X 1S5 (519) 438-3893

PRESIDENT ELECT

TREASURER

Name: _____
Address: _____
Phone: _____

WALTER LUCAS
TEMPRITE INDUSTRIES LTD., SUITE 25,
317 ADELAIDE ST. S., LONDON, ONTARIO
N5Z 3L3 (519) 685-0400

VICE PRESIDENT

OTHER

Name: RICHARD D. PALSER
Address: PALSER ENTERPRISES LTD.
406 OXFORD ST. E., LONDON, ONTARIO
Phone: N5Y 3H4 (519) 433-9227

Name: _____
Address: _____
Phone: _____

CHAPTERS REGIONAL COMMITTEE REPRESENTATIVES

DELEGATE

ALTERNATE

Name: JOHN J. PAYNE
Address: VANDERWESTEN & RUTHERFORD LTD.
36 TALBOT RD. S., LAMBETH, ONTARIO
Phone: N0L 1S0 (519) 652-5047

RICHARD D. PALSER
PALSER ENTERPRISES LTD.
406 OXFORD ST. E., LONDON, ONTARIO
N5Y 3H4 (519) 433-9227

HEADQUARTERS ADDRESS: ASHRAE, 1791 TULLIE CIRCLE, N.E., ATLANTA, GA. 30329

CHAPTER BOARD OF GOVERNORS

Name: C.L. Sharp
 Address: AAF-Ltd., 387 Princess Ave.,
London, Ontario, Canada, N6B 2A7
 Phone: (519) 673-0300

Wayne Barker
Absolute Systems Ltd., 585 Third St.,
London, Ontario, Canada, N5V 2C1
(519) 453-0910

Name: W.W. Mitchell
 Address: London Board of Education
51 Leathorne Blvd., London, Ontario, N5Z 3M7
 Phone: (519) 686-5353

R.A. Gonder
University of Western Ontario
Services Building, London, Ontario, N6A 5B9
(519) 679-2209

Please list the following key Chapter Chairmen for use by Headquarters and Regional Chairmen, and submit new information promptly if names, etc. are changed

Membership Comm. Chrmn: Ronald E. Granger c/o Chorley & Bisset Ltd.

Address & Phone: 521 Colborne St., London, Ontario, Canada N6B 2T6 (519) 679-8660

Education Comm. Chrmn: L. Swallow c/o Fanshawe College

Address & Phone: 1460 Oxford St. E., London, Ontario, Canada N5V 1W2 (519) 452-4126

Research Promotion Comm. Chrmn: William A. Rutherford c/o Vanderwesten & Rutherford Ltd.

Address & Phone: 36 Talbot Rd. S., Lambeth, Ontario, Canada N0L 1S0 (519) 652-5047

Energy Management Comm. Chrmn: Karl E. Kvas, Ontario Hydro

Address & Phone: 1075 Wellington Rd. S., London, Ontario, Canada N6E 1M1 (519) 681-1390

Program Comm. Chrmn: R.D. Palser

Address & Phone 406 Oxford St. E., London, Ontario Canada N5Y 3H4 (519) 433-9227

MEETING DATES FOR THE 1981-82 FISCAL YEAR
 (For publication in the ASHRAE JOURNAL)

July <u>None</u>	Oct. <u>26</u>	Jan. <u>18</u>	Apr. <u>26</u>
Aug. <u>None</u>	Nov. <u>23</u>	Feb. <u>22</u>	May <u>31</u>
Sept. <u>28</u>	Dec. <u>None</u>	Mar. <u>29</u>	June <u>None</u>

Regular Meeting Location _____

Please list below following members who have special chapter functions.

1. Chapter Historian H.V. Fenner
2. CRC Action Committee Chairman W.A. Rutherford
3. Publicity Chairman D.M.R. Johnson
4. Social _____
5. _____

Does Chapter charge dues? YES X NO _____ AMOUNT \$79.00

Is there a prepaid meal plan? X What is the charge? included

Name of Chapter Publication Newsletter

Editor's Name J.G. Haywood c/o Vanderwesten & Rutherford Ltd.

Address 36 Talbot Rd. S., Lambeth, Ontario, Canada ZIP N0L 1S0

Is your chapter legally incorporated? No Year of Incorporation _____

Region and Chapter	MEMBERSHIP GROWTH			MEETING ATTENDANCE			RES. FUND CONTRIB.			EDUCA. ACTIV.		ENERGY MGT		TOTAL AOE		
	Area Mbrs (1)	Grth Objs (2)	Appl Dlnq Mbrs (3)	Growth Factor	Attnd Objs (2)	Aver. Attnd Factor	YTD f _a	AOE Pts YTD	Recd YTD	AOE Pts	AOE Pts	AOE Pts	AOE Pts	AOE Pts	AOE Pts	
London Can.	110	7	14	0	98.058	397	42	37	6.081	225	1,915.	213	250	350	150	1,585

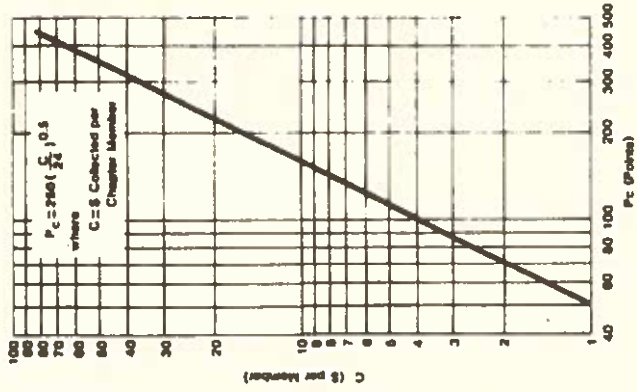
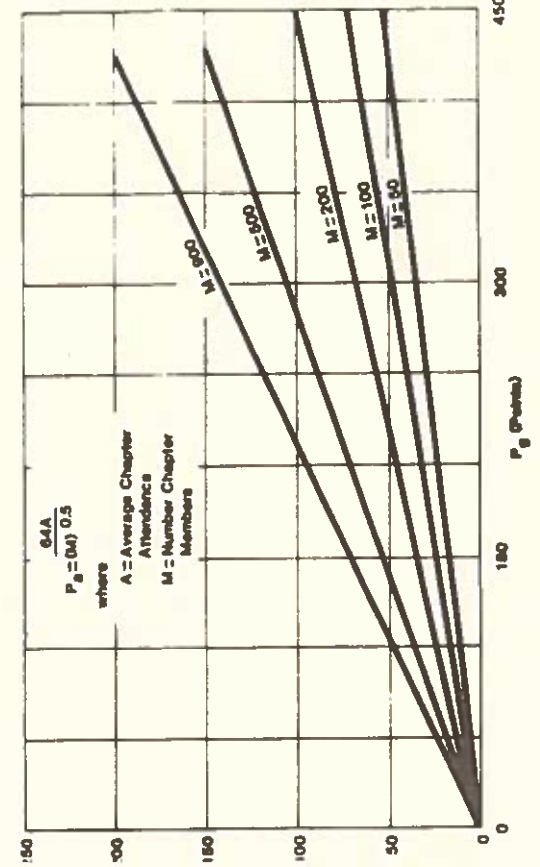


Table 1—CRC Attendance Points

Attendees	Points/Ea.
Chapter delegate & alternate	25
Chapter officers & board of governors (member other than delegate or alternate)	50
Chapter education committee chairman	50
Chapter membership committee chairman	50
Chapter research promotion committee chairman	50
Chapter energy conservation committee chairman	50
All other chapter members	25
If delegate or alternate misses any caucus or CRC session	0

Note: Maximum award is 250 points

Table 2—Educational Activities Points

Factor	Points Determination	Maximum Points
Faculty Liaison	Faculty liaison members	150
Student Incentive ²	Total available institutions	75
	Awards conferred	X 65
Student Membership	Total available institutions	130
	New student members	X 900
Chapter Sponsored Seminars	Total available students	90
	Seminar Hours	X 7.5
Secondary School Career Guidance Contacts	Secondary School Career Guidance Contacts	10
	Awards conferred	X 10
Secondary School Incentive	Awards conferred	20
	Awards conferred	X 10

¹ Faculty refers to both University and Technical school faculties in the chapter area
² Student refers to students enrolled in the universities and technical schools in the chapter area
 Note: Maximum award is 525 points

Table 3—Energy Management Activities

Factor	Points Each	Maximum Points Obtainable Per Activity
Chapter sponsored energy management seminar (minimum 4-hour session)	150	300
Chapter sponsored energy articles published in local news media	50	200
Chapter member talks on energy to civic and public service groups	50	200
Participation in energy management awards program at any level of ASHRAE	100	100
Chapter input to legislative activity at any level of government (must be documented with information provided or oral testimony before a committee or other legislative group)	75	300

Note: Maximum award is 500 points

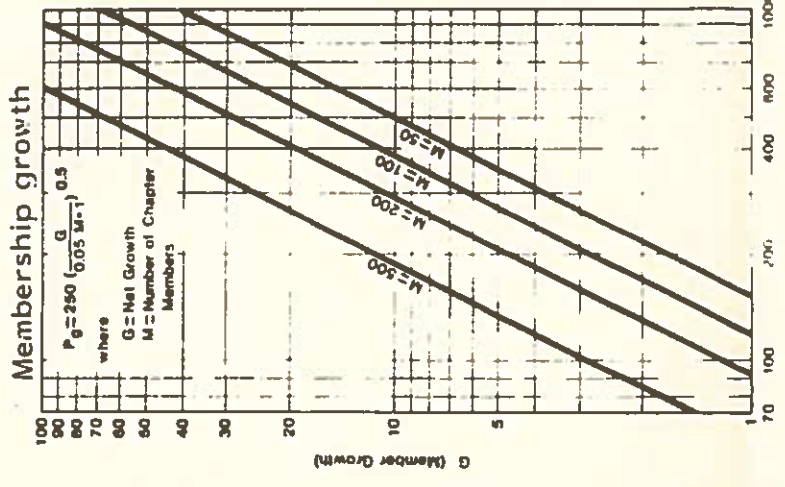


Fig. 3
Research Promotion

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
 United Engineering Center, 145 East 47th Street, New York NY 10017

BIOGRAPHICAL RECORD

Date January 14, 1981

1. BASIC DATA

Name Morrison, Clifton R. (Cliff)
 Born July 27, 1925 at Montreal, Canada
 Home Address 64 Georgia Road, London, Ontario, CANADA N6H 2R6
 Business: Firm Johnson Controls Ltd/Ltee
 Address 594 Newbold Street, London, Ontario, CANADA N6E 2W9

2. EDUCATIONAL RECORD

Education	Institution	Course	Years Completed	Date of Grad.	Degree
High School	Lachute High School	SC	4	1942	Jr. Matric
Technical Institute					
College or University	McGill University	SC	4	1949	B.S.C. (Agr.)
Graduate Study or Other	McGill University	Bus Adm	Night	1950-52	2 Credits M.B.A.

3. PROFESSIONAL EXPERIENCE (include each assignment)

From	To	Employer	Your Title	Describe duties, as: Devel, Appl, Sales, Adm, Consult
1969	-	Johnson Controls Ltd/Ltee	Branch Manager	Sales, Administration
1949	1969	Johnson Controls Ltd/Ltee	Sales Engineer	Supervisor of controls installations. Design work with consultants, sales, estimating.

4. ENGINEERING REGISTRATION

State	Date	Number	State	Date	Number

5. MEMBERSHIP AND ACTIVITIES IN OTHER SOCIETIES OR TRADE ASSOCIATIONS

Society or Trade Assn	Grade	Yr Admitted	Committee	Year	Chr or Member
Mechanical Contractors Association	M	1969	Management Trustee of Union Pension Plan	1970	Member

(Continued on back page)

Name: Morrison, Clifton R. (Cliff)

6. ASHRAE HISTORY			
A. Joined Society (year)		1958	Present Grade <u>M</u> Year <u>1963</u>
B. Chapter: Offices held, with dates		<u>Chapter President - London Canada 1974</u>	
C. Chapter committee service		<u>Chapter President - Montreal Canada 1963</u>	
D. National Activities			Chairman or Member
From	To	Name of committee or other activity	
1977	79	Nominating Committee	M
1974	76	Nominating Committee	M
1974	77	Education Committee	M
1977	78	Education Committee	Vice - Chairman
1978	79	Education Committee	Chairman
1977	80	Publishing Committee	M
1967		Chapters Regional Conference Region II	Chairman
1978		Chapters Regional Conference Region II	Chairman
7. TECHNICAL INTEREST AREAS (heat transfer, odor, controls, heating) <u>Controls</u>			
8. HONORS <u>ASHRAE Certificate of Appreciation 1963, 1974, 1979</u> <u>Honorary Societies, Citations, Awards Regional Award of Merit 1978</u> <u>Listed in Who's Who in...</u>			
9. PUBLICATIONS (technical)			
Number of books		Papers	Articles
List significant publications (title, publication, date)			
10. PROJECTS: List below significant projects			
Project identification	Year	Your Relationship	Significance
11. PATENTS			
Number of U. S. patents		List below significant patents	
12. CIVIC, CHARITABLE, AND MILITARY SERVICE			
<u>Royal Canadian Air Force - Pilot Officer - Navigator</u>			
13. OTHER INFORMATION (Also use this space for extension of items from above)			
<u>Offices Held Recently:</u>			
<u>President - McGill Graduates Society - London Branch</u>			
<u>Director - London Executives Association</u>			
<u>Director - Highland Country Club</u>			
<u>Trustee - Pension Plan U.A. Local 593</u>			

(Use additional sheets if necessary)



Proposal to: 1980-81 REGION II
CHAPTERS REGIONAL CONFERENCE
MONTREAL, QUEBEC

Submitted by: ASHRAE LONDON CANADA CHAPTER

Proposed: That ASHRAE adopt a policy of providing funds to each chapter allotted on the basis of area membership, and that these funds be allocated from society membership dues.

Discussion: The strength of ASHRAE lies in its Chapter structure and committee organization. It is vital to the future of the society that the quality of our membership be maintained at its present high standard. In order to ensure that talented new members are attracted to the Chapters and to society committees it is imperative that we improve communications with them. One very positive method of improving communications with prospective chapter members, and enticing them to become involved in ASHRAE is through the medium of chapter newsletters, and other related mailings.

London Canada Chapter costs for mailings to chapter members only was approximately \$14.00 per chapter member for the 1980-81 year. Chapter membership dues are already too high, and are listed as a contributing factor to our recent loss of members. The additional expense of sending chapter mailings to all area members can not be afforded by the chapter.

The high cost of these mailings is partly caused by the relatively small chapter size. (50 members), and would be reduced for a larger membership base.

The allotment of funds from society, based on area membership, would permit improved communications between the chapter and all area members. This in turn would increase chapter membership, and members' ability to contribute to ASHRAE.

CIC-APEO-IEEE-ASHRAE

London Chapter, APEO

1-Day Hydrogen Energy Symposium

The Chemical Institute of Canada (CIC), the Association of Professional Engineers of the Province of Ontario (APEO), the Institute of Electrical and Electronics Engineers (IEEE), and the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) are jointly organizing a one day symposium on hydrogen energy.

Date May 1, 1981

Location Room 40, Business School,
The University of Western Ontario,
London, Ontario, Canada.

The symposium brings together outstanding expertise in the areas of hydrogen production, storage, utilization and economics. Additional topics dealing with the latest research and development in hydrogen energy will be presented.

Hydrogen is an important alternative fuel source which represents a highly efficient energy carrier, and compares favourably with other fuels which are available today. It can be used as a chemical feedstock in the production of refined petrochemical products and other chemicals. Moreover, hydrogen is non-polluting and is an abundant resource. This symposium provides an update of the State-of-the-Art in hydrogen technology and emphasizes the future role which hydrogen will play as the forever fuel.

The symposium pre-registration fee is \$85.00 (\$95.00 at the door) which includes luncheon, coffee breaks and a copy of the abstracts.

To pre-register (and save (\$10.00) please complete the attached form and mail it, with your payment, by April 17, 1981. A registration package including receipt, registration badge, map, luncheon ticket and free parking sticker will be mailed to you.

For further information, contact any of the following:

- Don Whitred, APEO (519) 686-2000
- Bill Greason, IEEE (519)686-2000
- Argyrios Margaritis, CIC (519) 679-3021
- Bill Rutherford, ASHRAE (519) 652-5047

CIC/APEO/IEEE/ASHRAE HYDROGEN ENERGY SYMPOSIUM COMMITTEES

Scientific Program

- A. Margaritis—Chairman, CIC, The University of Western Ontario
- A. Webster, The University of Western Ontario
- N. Blackburn, John Labatt Limited.
- P. Monaghan, Chorley and Bisset Limited

Budget

- W. Rutherford, President, ASHRAE, Vanderwesten and Rutherford Limited
- J. Watson, Canadian Armed Forces
- T. Dumas, Agriculture Canada, London Research

Publicity

- W. Greason, Chairman, IEEE, Northern Telecom Canada Limited.
- J. Maksymyk, General Motors of Canada Limited.
- G. French, Ministry of Transportation and Communication
- D. Johnson, Vanderwestern and Rutherford Limited

Local Arrangements

- D. Whitred, Chairman, APEO, Northern Telecom Canada Limited
- S. Waite, SACDA, The University of Western Ontario
- F. Jurchuk, Fanshawe College
- D. Weber, The University of Western Ontario
- W. Lucas, Temprite Industries Limited.

(see reverse side for Program)

SYMPOSIUM REGISTRATION FORM

1-DAY HYDROGEN ENERGY SYMPOSIUM

May 1, 1981

Room 40, Business School, The University of Western Ontario, London, Ontario, Canada

Please register me for the Symposium. Enclosed is my cheque payable to the London Chapter, ASHRAE, in the amount of:

\$85.00 (\$95.00 at door) \$30.00 (Student)

Name:

Address:

.....

Company:

Telephone:

Mail this form to:

W.A. Rutherford, Vanderwesten and Rutherford Ltd.,
36 Talbot Road South, Lambeth, Ontario N0L 1S0

Symposium Program

FIRST SESSION

Chairman—Dr. G.F. Chess, Dean of Engineering, Faculty of Engineering Science, The University of Western Ontario, London, Ontario Canada.

9:00 a.m.

Introduction and Welcome

Mr. A.K. Adlington, Vice President, The University of Western Ontario, London, Ontario, Canada.

9:10 a.m.

"Electrolytic Hydrogen Production"

Mr. A.K. Stuart, President, Electrolyser, Inc., Toronto, Ontario, Canada.

9:50 a.m.

"Cost Effective Systems for Hydrogen Production from Hydrocarbon Feedstocks"

Dr. R.G. Minet, Kinetics Technology International Corporation, Pasadena, California, USA and
Mr. K. Desai, Union Carbide Corporation, Tarrytown, New York, USA.

10:30 a.m.

Coffee Break

11:00 a.m.

"Hydrogen Production from Biological Systems"

Dr. A. Margaritis, Chemical and Biochemical Engineering, Faculty of Engineering Science, The University of Western Ontario, London, Ontario, Canada.

12:00 noon—2:00 p.m.

Luncheon Address—"The Hydrogen Economy: Future Policy Implications"

Dr. Lewis Slotin, Policy Advisor, University Branch, Ministry of State, Science and Technology, Ottawa, Ontario, Canada.

SECOND SESSION

Chairman—Dr. D. Scott, Department of Mechanical Engineering, The University of Toronto, Toronto, Ontario, Canada.

2:00 p.m.

"Candu* with Hydrogen"

Dr. M. Hammerli, Atomic Energy of Canada Limited, Chalk River, Ontario, Canada.

2:40 p.m.

"Hydrogen as a Fuel"

Drs. D. McCammond, R.D. Venter, J. Wallace, C.A. Ward, Department of Mechanical Engineering, The University of Toronto, Toronto, Ontario, Canada.

3:20 p.m.

Coffee Break

3:50 p.m.

"Hydrogen Fuel for Space Conditioning of Buildings"

Dr. V. Bonne, Corporate Technology Centre, Honeywell Incorporated, Bloomington, Minnesota, USA.

4:30 p.m.

Overview and Conclusions

Dr. D. Scott, Department of Mechanical Engineering, The University of Toronto, Toronto, Ontario, Canada.

5:00 p.m.

End of Symposium



LONDON CANADA CHAPTER

SOUTHWESTERN ONTARIO NEWSLETTER

P.O. BOX 653 - LONDON - N6A 4V8

Regular Meeting

**Highland Golf
& Country Club**

279 Commissioners Rd., E., London, Ontario

Monday, Sept. 22, 1980

Social Hour - 5:30

Dinner - 6:30

Guest Speaker

MR. ROBERT D. CAMPBELL
Manager, New Products Group
Dearborn Chemical Company Limited

***"Practical Guide to
Water Conditioning"***

CHAPTER MEMBERSHIP

Higher costs for printing, postage, meals and just about everything else require that chapter membership dues be increased. In order to minimize the expense to all members the Board of Governors has established the following policy for this year.

Local Member:

\$55.00 chapter dues, **plus** \$3.00 registration fee for each chapter meeting attended payable at the meeting.

Out-of-Town Member:

\$15.00 chapter dues, **plus** \$10.00 registration fee for each chapter meeting attended payable at the meeting.

Student Member:

\$5.00 chapter dues, **plus** \$8.00 registration fee for each chapter meeting attended payable at the meeting. The registration fee is waived if the student attends the meeting after dinner.

SPORTS DAY

The annual London Chapter golf tournament has grown. This years event will include tennis, golf, putting, mini-golf, driving range, dinner, and a social evening for members and friends. With the sponsorship provided by Johnson Controls this year, this event promises to be the best local tournament around. If you haven't already done so, contact John Gomm at 472-6410 right away to register.

GOLF & DINNER \$20.00
TENNIS & DINNER \$20.00
DINNER \$10.00

CHAPTER MEETINGS

Paul Monaghan is the chairman of our newly formed Technical Committee. It will be Paul's responsibility to foster technical discussions of the meeting topic.

John Watson our program committee chairman is presently arranging the meeting agenda for this year. If there are any topics of particular interest to you, please let John know in the near future.

Both John and Paul are working together to provide an interesting year, with emphasis on the practical aspects of our industry.



"Figworth, it has come to my attention that you are renting out the darkroom to couples from the accounting department."

Monday, Sept
Guide to Water

Monday, Oct
Night

Monday, Nov

Thursday, Jan
Promotion Night