

ASHRAE RESEARCH CANADA
ANNUAL GENERAL MEETING
September 17, 1993
Quebec City, P.Q.

AGENDA

- 1.) Minutes of the 1992 Annual General Meeting, Halifax, Nova Scotia.
- 2.) Business Arrising from the minutes
- 3.) The annual report of the ARC President.
- 4.) Auditor's report for the period ending June 30, 1993.
- 5.) Review of Canadian Chapter investments for 1992/93.
- 6.) Review situation for individuals claiming their research investments as a tax deduction - re: Section 37.1 of the Income Tax Act.
- 7.) Status of current Canadian research projects.
- 8.) Review the list of Canadian institutions available to do research.
- 9.) Election of Officers for 1992/93.
- 10.) Appointment of Auditors.
- 11.) Any other such business as may properly come before the meeting.
- 12.) Future ASHRAE Research Canada Meetings:

Directors Meetings:	New Orleans, LA	January 23, 1994
	Orlando, FL	June 26, 1994
Annual General Meeting:	Ottawa, ON	September, 1994
- 13.) Adjournment.

August 12/94
August 11-14.

ASHRAE RESEARCH CANADA

Annual General Meeting of the Members

Halifax, Nova Scotia, August 28, 1992

Annual General Meeting was called to order at 7:15 a.m. by president Bill Dean with Dalt McIntyre acting as secretary.

Bill Dean had five proxies from Members of the Corporation in Region XI that were unable to attend.

Dick Hayter reviewed current research projects in Canada.

MOTION: Moved by Bob Kelly and seconded by Daryl Boyce

That the minutes of the last Annual General Meeting in Windsor, Ontario be adopted as circulated.

Carried.

Bill Dean gave the presidents report for the 1991/92 year. He indicated that current expenditures on research in Canada exceed \$500K while income from the Chapter gross root fund raising are \$113K. A graphical representation was circulated to the members. The trend is to increasing research expenditures in Canada so it will be very important to continue to raise as many dollars as possible in the coming years.

The auditors report was reviewed as circulated to the members.

MOTION: Moved by Jean Bundock and seconded by Daniel Robert.

That the Financial Statements for the fiscal Year ended June 30, 1991 and the auditor's report as submitted and read to this meeting, be approved and adopted.

Carried.

Canadian Chapter Investments were reviewed. A summary sheet was circulated to the members.

Bill Dean reviewed the tax status of Investment in ASHRAE Research Canada with respect to the Canadian Tax Laws. Only incorporated companies are allowed to claim deductions for tax purposes. ARC is a company under the laws of Canada not a charitable organization.

The Canadian Bidders list was reviewed by the members. It was noted that a number of

universities and research organizations are missing from the list. The bidders must resubmit data on their research capabilities every two or three years to ensure that the data is current and that their areas of interest are complete and accurate. Members were encouraged to contact the researchers in their area to keep their names on the bidders list.

MOTION: Moved by Bill Fines seconded by Darryl Boyce

That all acts, proceedings, contracts, appointments, elections, payments and bylaws done, instituted, made and enacted by the directors and Officers of the Corporation since the last Annual General Meeting of the members, as the same are set out or referred to in the minutes of the Meetings of the Directors or in the Financial Statements submitted to this meeting, be hereby approved, ratified and confirmed.

Carried.

MOTION: Moved by Darryl Boyce and Seconded by Daryl Somers

That the following persons be nominated as Class A Members of the Corporation:

Mr. K. William Dean
Mr. Norman Johnson
Mr. Dalton McIntyre
Mr. Donald Holte
Mr. Dan Castellan

Carried

March 17, 1992 was the 20th anniversary of ARC. To commemorate this occasion Past President's pins were minted.

Bill Dean presented a personalized Past Presidents Pin to Paul Conrad the immediate Past President of ARC and the 1992 Region II CRC Chairman.

Motion: Moved by Dan Castellan and seconded by Bill Fines;

That the meeting be adjourned at 7:45 a.m.

Carried.

Next ARC Annual General Meeting September 15, 1993, Ville de Quebec.

ASHRAE RESEARCH CANADA
ACCOUNT NUMBER: 7328-6387
BALANCE SHEET

Cash	<u>\$ 71,003</u>
Total assets	<u>\$ 71,003</u>
Due to other funds	<u>\$ 495,682</u>
Total liabilities	495,682
Fund balance	(382,338)
Cumulative translation adjustment	<u>(42,341)</u>
Total liabilities and fund balance	<u>\$ 71,003</u>

ASHRAE RESEARCH CANADA
ACCOUNT NUMBER: 7328-6387
STATEMENT OF REVENUES, EXPENSES
AND CHANGES IN FUND BALANCE

FOR THE
YEAR ENDED
JUNE 30, 1993

Contributions	<u>\$ 109,412</u>
Total revenue	<u>\$ 109,412</u>
Cooperative research projects and grants-in-aid	180,746
Committees and staff travel	1,313
Professional services	1,000
Other administrative costs and overhead allocations	<u>165</u>
Total expenses	<u>183,224</u>
Deficit of revenue over expenses	(73,812)
Fund balance at beginning of year	<u>(308,526)</u>
Fund balance at end of year	<u><u>\$(382,338)</u></u>

ASHRAE RESEARCH CANADA

YTD CONTRIBUTION SUMMARY

July 08, 1993

Reg #	Chap #	Chapter	# of Memb.	Goal	YTD Inv	Year to Date Investments
2	13	Quebec	173	\$4,400.00	46	\$4,440.00
2	14	Montreal	539	\$8,000.00	47	\$4,675.00
2	15	Ottawa	341	\$10,500.00	46	\$6,785.00
2	16	Toronto	839	\$30,000.00	54	\$23,690.00
2	37	Hamilton	193	\$10,000.00	40	\$6,440.00
2	100	Halifax	178	\$5,000.00	36	\$5,279.00
2	116	London	110	\$5,300.00	36	\$5,495.00
2	117	New Brunswick	120	\$3,800.00	15	\$2,155.00
2	140	Saguenay	36	\$1,500.00	2	\$400.00
2	141	Windsor	55	\$3,500.00	22	\$2,578.00
2	153	Other	140	\$3,500.00	2	\$135.00
11	17	Manitoba	175	\$7,150.00	15	\$2,309.00
11	18	Southern Alberta	308	\$11,360.00	64	\$8,579.00
11	19	Northern Alberta	242	\$7,000.00	36	\$3,965.00
11	20	British Columbia	379	\$20,000.00	76	\$14,791.00
11	96	Regina	55	\$5,800.00	2	\$2,625.00
11	102	Saskatoon	84	\$2,500.00	44	\$3,732.00
11	145	Vancouver Island	92	\$9,200.00	12	\$1,755.00
TOTALS			4059	\$148,510.00	595	\$99,828.00



ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

1791 Tullie Circle, NE • Atlanta, Georgia 30329-2305 ☎ 404-636-8400 • Fax 404-321-5478

Wm. W. Seaton
Manager of Research

TO: Bill Dean, President, ASHRAE Research Canada
FROM: Bill Seaton *Bill Seaton*
DATE: May 3, 1993
SUBJECT: Information for Annual Meeting

Attached are two pieces of information on ASHRAE research projects being conducted by Canadian contractors. The "Research Project Worksheet" lists the nine currently active Canadian projects.

The "ASHRAE Research Expenditures for 1992-93" lists all projects with the nine active, two completed projects and the one Canadian grant-in-aid marked with an asterisk.

We have spent almost \$150,000 in Canada thus far this year and may spend up to \$226,000. We are currently scheduled to spend \$87,000 there next year.

Please call if you have any questions on this information.

WWS/mjb
Enclosures
cc: Tom Anderson, Manager, Research Promotion

RESEARCH PROJECT WORKSHEET

05-Jan-93
WWS

STATUS	TITLE	TC/IG	COST	PERIOD	CAT.	CONTRACT,NOTE	REMARKS
455-RP/A	INVESTIGATION OF DYNAMIC LATENT HEAT STORAGE EFFECTS OF BUILDING CONSTRUCTION AND FURNISHING MATERIALS	4.4	88,520	S91.01 E92.04	EC	ONTARIO RESEARCH DAVID BAILEY	PMSC- PHILIP FAIREY
578-RP/A ...	DETERMINATION OF WINDOW SYSTEM U-VALUES FOR TABLE 13 OF THE HANDBOOK OF FUNDAMENTALS	4.5	119,240	S91.09 E93.03	EC	ENTERMODAL S.C. CARPENTER	PMSC- MIKE MCCABE
620-RP/A	VALIDATION OF HEAT PUMP/HEAT RECOVERY SYSTEM MODELING	9.4	90,225	S89.12 E91.10 X92.10	EC	CANETA RESEARCH DOUG CANE	PMSC- VAN BAXTER
624-RP/A	LABORATORY METHODS OF TESTING FOR RATING LOW FREQUENCY SOUND EMISSION OF AIR-CONDITIONING EQUIPMENT	2.6	95,455	S89.09 E91.01 X91.07	COM	NATL. RESEARCH COUNCIL CANADA W.T. CHU	PMSC- PETER BAADE
656-RP/A ..	HEAT PUMP/HEAT RECOVERY OPERATING EXPERIENCE	9.4	64,500	S91.12 E93.01	EC	CANETA RESEARCH DOUG CANE	PMSC- VAN BAXTER
677-RP/A	EFFECT OF AUTOMATIC SPRINKLER PROTECTION ON SMOKE CONTROL SYSTEMS	5.6	105,810	S91.04 E92.10	H&S	NATL. RESEARCH COUNCIL CANADA J.R. MAWHINNEY	PMSC- WILLIAM WEBB
713-RP/A	EVALUATION OF SOLAR HEAT GAIN TEST METHODS	4.5	96,620	S91.09 E92.10	DT	QUEEN'S U. S.J. HARRISON	PMSC- STEPHEN TREADO
722-RP/A	MEASUREMENT OF TWO-PHASE REFRIGERANT LIQUID-VAPOR MASS FLOW RATE	1.2	89,200	S92.05 E93.11	CFC	MCMASTER U. M. SHOUKRI	PMSC- THOMAS KUEHN

ASHRAE RESEARCH EXPENDITURES FOR 1992-93

03-May-93

PROJECT	TOTAL ASHRAE COMM.	PAID PRIOR YEARS	POTENTIAL 92-93 EXPENSES	CURRENT PAYMENTS Y. T. D.	SCHEDULED FY 93-94 EXPENSES
GIA	102,000		109,500	109,500	
GIA CAN. *			7,500	7,500	
392 RP-III (PSU)	154,844	116,200	38,644	38,684	
438 RP (UKY)	68,803	61,900	6,903	6,903	
453 RP (UMA)	50,295	45,200	5,095	0	
455 RP (ORF) *	110,650	69,000	41,650	13,800	
464 RP (UTN)	119,196	107,275	11,921	11,921	
475 RP (GRI)	50,000	37,500	12,500	0	
493 RP (KSU)	85,232	63,900	21,332	21,332	
496 RP (JMC)	57,625	54,003	3,622	0	
497 RP (OSU)	32,803	24,600	8,203	0	
518 RP (TUD)	114,840	103,300	11,540	11,540	
548 RP (LBL)	160,000	155,776	4,224	0	
558 RP (PU)	103,333	93,450	9,883	0	
569 RP (UIL)	36,078	32,450	3,628	3,628	
574 RP (OSU)	99,156	88,981	10,175	13,737	
577 RP (KSU)	199,195	149,400	49,795	0	
578 RP (ENRM) *	129,570	48,600	16,200	16,200	64,770
592 RP (CDA)	97,279	54,600	0	18,200	42,679
600 RP (AGA)	113,399	95,354	18,045	0	
602 RP (UAL)	14,600	10,950	3,650	3,650	
606 RP (CEE)	92,500	69,600	22,900	22,900	
610 RP (U P)	157,571	59,100	59,100	29,550	39,371
619 RP (KSU)	98,798	37,050	61,748	24,700	
620 RP (CR) *	78,773	67,590	11,183	10,820	
622 RP (UFL)	111,918	10,500	52,500	31,500	48,918
623 RP (AGA)	55,028	41,250	13,778	0	
624 RP (NRCC) *	114,317	102,900	11,417	0	
625 RP (UMN)	114,948	44,743	70,205	27,450	
629 RP (UCO)	66,000	59,400	6,600	6,600	
630 RP (ISU)	135,740	71,400	64,340	10,200	
641 RP (N&A)	28,620	25,700	2,920	2,920	
642 RP (ISU)	46,410	34,800	11,610	11,610	
645 RP (GTRI)	124,039	111,550	12,489	12,489	
652 RP (ISU)	52,415	47,150	5,265	0	
654 RP (TAM)	94,812	71,125	23,687	0	
656 RP (CR) *	64,500	28,000	36,500	28,000	
657 RP (KSU)	74,896	33,750	41,146	33,750	
658 RP (UMD)	80,880	60,600	20,280	0	
661 RP (MHL) *	35,000	26,200	8,800	0	
662 RP (UMI)	173,053		64,900	32,450	64,900
664 RP (UIL)	89,925	42,125	47,800	25,275	
665 RP (UL,B)	57,250	43,000	14,250	0	
666 RP (SWA)	104,835	78,600	26,235	0	
668 RP (ISU)	117,120	32,500	55,500	8,800	29,120
671 RP (RTI)	103,530	52,000	51,530	26,000	
674 RP (RTI)	27,466	24,725	2,741	2,741	
675 RP (AFTL)	94,800	44,500	50,300	8,900	
676 RP (ISU)	128,550	38,600	57,900	9,650	32,050
677 RP (NRCC) *	121,682	91,200	30,482	30,482	
678 RP (UFL)	42,030	31,600	10,430	0	
680 RP (CAL)	56,000	14,000	42,000	28,000	

ASHRAE RESEARCH EXPENDITURES FOR 1992-93

03-May-93

PROJECT	TOTAL ASHRAE COMM.	PAID PRIOR YEARS	POTENTIAL 92-93 EXPENSES	CURRENT PAYMENTS Y. T. D.	SCHEDULED FY 93-94 EXPENSES
682 RP (KSU)	107,940	30,300	50,500	40,400	27,140
683 RP (UDRI)	37,087	33,375	3,712	3,712	
690 RP (TTU)	79,440	29,790	49,650	29,790	
691 RP (RAD)	25,000	18,750	0	3,750	0
695 RP (JBPF)	184,763		39,600	0	79,200
696 RP (UMO)	79,105		29,600	14,825	49,505
698 RP (UMR)	80,868	12,125	48,500	36,375	20,243
699 RP (VPI)	68,780	19,350	49,430	25,800	
701 RP (UMN)	70,000	63,000	7,000	7,000	
702 RP (MU)	142,558	35,600	71,200	53,400	35,758
703 RP (KSU)	120,403	12,900	64,500	38,700	43,003
705 RP (JIL)	89,660	16,800	33,600	25,200	39,260
707 RP (UMKC)	93,598	26,325	43,875	26,325	23,398
712 RP (ADM)	69,784	8,725	43,625	17,450	17,434
713 RP (UQN) *	96,620	54,300	42,320	18,100	
714 RP (VIPAC)	83,100		62,400	46,725	20,700
716 RP (IRI)	71,138	40,050	31,088	24,000	
717 RP (HI)	76,554		57,400	28,700	19,154
721 RP (TTU)	119,692		44,900	33,660	44,900
722 RP (MMU) *	106,800	13,380	71,120	40,140	22,300
725 RP (TTU)	100,000	18,750	37,500	28,125	43,750
728 RP (A+C)	74,975	11,250	44,975	33,750	18,750
730 RP (JIL)	104,542		52,400	39,150	52,142
732 RP (UPITT)	57,807		21,600	21,600	36,207
733 RP (UTX)	39,883		30,000	22,440	9,883
734 RP (PU)	55,255		16,500		24,750
735 RP (UALB) *	63,520		38,120	28,590	25,400
736 RP (JIL)	38,237		14,300	7,175	14,300
737 RP (GKCO)	86,500		52,000	25,950	34,500
738 RP (UdL)	46,900	11,750	23,350	17,625	11,800
741 RP (OSU)	60,867	18,260	27,390	27,390	15,217
742 RP (PSU)	75,000		28,200	14,060	28,200
743 RP (UID)	14,498	5,450	9,048	9,048	
744 RP (JIL)	93,402		46,700	35,025	46,702
747 RP (CU)	75,000		56,400	42,150	18,600
751 RP (NILU)	129,500		24,300	0	48,600
754 RP (UKY)	64,948		27,840	13,920	20,880
755 RP (NRCC) *	90,227		22,550	0	45,100
756 RP (EEI)	72,300		54,000	40,650	18,300
760 RP (RTI)	75,529		56,800	42,600	18,729
766 RP (USMA)	19,800		7,425	3,725	12,375
776 RP (UMN)	35,231		26,400	13,250	8,831
777 RP (UMO)	81,544		12,250	6,100	24,500
OTHER				1,973	
TOTAL CAN.(C\$)	726,292	420,670	226,052	146,942	87,070
TOTAL CAN.(US\$)	615,532	356,518	191,579	124,533	73,792
TOTAL U.S. PROJ	8,000,659	3,387,927	2,958,614	1,689,730	1,341,319
TOTAL PROJ. US	8,616,191	3,744,445	3,150,193	1,814,263	1,415,111

CANADIAN RESEARCH FIRMS

<u>NO.</u>	<u>INSTITUTE</u>	<u>REGION</u>
1	ASECOR, LTD	2
2	B.V.A. SYSTEMS,LTD	2
3	CANETA RESEARCH, INC.	2
4	CARLTON UNIVERSITY	2
5	CONCORDIA U.	2
6	COWAN QUALITY BUILDINGS	2
7	CRIQ, CANADA	2
8	ENERMODAL ENGINEERING LTD.	2
9	GUELPH, U.OF (FOOD)	2
10	INDOOR AIR TECHNOLOGIES	2
11	KHEMANI & ASSOCIATES	2
12	LAVAL, U.de (FOOD)	2
13	LAVAL UNIVERSITY	2
14	McMASTER U.	2
15	MORRISON HERSHFIELD LTD.	2
16	MUELLER ASSOCIATES	2
17	NATIONAL RESEARCH COUNCIL CANADA	2
18	ONTARIO HYDRO	2
19	ONTARIO RESEARCH FOUNDATION	2
20	OTTAWA, U. de	2
21	R W D I	2
22	SCANADA CONSULTANTS LTD.	2
23	WATERLOO, U.OF	2
24	WINDSOR, U.OF	2
25	YUILL, G. K.	2
26	ALBERTA, U.OF	11
27	ALBERTA, U.OF (FOOD)	11
28	APPROTECH GENERAL SCIENCES	11
29	BRITISH COLUMBIA, U. OF (ARCH.)	11
30	BRITISH COLUMBIA, U.OF (FOOD)	11
31	CALGARY, U.OF	11
32	CLEARSTONE ENGINEERING	11
33	MANITOBA, U.OF	11
34	MANITOBA, U.OF (ARCH)	11
35	MANITOBA, U.OF (FOOD)	11
36	SASKATCHEWAN, U.OF	11
37	SOUTHERN ALBERTA INST. OF TECH.	11
38	SYNERGIC RESOURCES	11
39	UNIES, LTD.	11
40	YUILL, G.K. (VICTORIA)	11

LONDON C.E.S.

FAX TRANSMITTAL

ASHRAE

SEP 10 1993

DATE 1993-09-03

TO: ONTARIO HYDRO ATTN: PETER ZIEBART FAX: 519-681-9472 680-4555

FROM: DALTON McINTYRE DIRECTOR AND REGIONAL CHAIRMAN REGION II

FAX/PHONE: (613) 523-1651 Address: 732 Southmore Dr. W.
Ottawa, Ontario K1V 7A1

NO. OF PAGES INCLUDING TRANSMITTAL: ONE

IF THERE ARE ANY PROBLEMS WITH THIS TRANSMISSION, PLEASE PHONE.

Signed: *Dalton McIntyre*

SUBJECT: CRC '93 QUEBEC, SEPT. 16 - 18

This CRC is only a few days away, and you, as delegate, have many things to consider as was mentioned in my memo of Aug 12. The following corrections should be made:

Item 11 - PAQE - Other chapter members (except Quebec) 35 pts
Check list Prior to CRC - Delete item 2.5. these MBO's are to included with the committee reports to the RVC's.

Come to the CRC prepared to vote on the following two Regional matters

1. Future CRC's. Next year's CRC will be in August as it was last year. We do not wish to continue to make changes from year to year. When would the executive of your chapter like the CRC to be held, August or September?

AUG 11-14/94

2. Regional fund. The Regional fund was at \$4700 prior to this CRC, and was used to pay for Regional Awards, and a few miscellaneous expenses. I would like to have your approval to reimburse the Regional Officers, upon request, for their registration expenses at CRC's, and the ASHRAE Annual and Winter meetings, up to a maxmum as listed below.

- Regional Vice-Chairs \$500/yr
- Nominating Committee Member and Alternate .. \$350/yr
- Regional Historian \$200/yr
- Assistant Regional Chair \$200/yr

This would cover the CRC package and the registration fee only at the Society events, but it would not cover the hotel or other events at the ASHRAE meetings. It is assumed that where a company is willing to subsidize these costs for their employee, that this reimbursment would not be requested. A form, similar to the travel voucher form you have received would be used for these Regional expenses.

*We Tried over the weekend to send this fax without success
also 93-09-07-09:30 without success.*

DJM

BIOGRAPHICAL RECORD

DATE PRINTED: 08 JUN 1992

1. BASIC DATA

Date of Birth: 17 FEB 1951

Name: DARRYL K. BOYCE
 Mbr#: 1008700
 Pref. Add: Business Pref. Phone: Business

Home Address: 1032 GUILDWOOD BLVD
 City: LONDON State: ON Country: CANADA Zip: N6H 4G3
 Telephone: 519/471-6143

Employer: UNIV OF WESTERN ONTARIO
 Business Add: 1151 RICHMOND STREET
 SERVICES BLDG, ROOM 102
 City: LONDON State: ON Country: CANADA Zip: N6A 5B9
 Telephone: 519/661-3302
 Fax: 519/661-3801

ASHRAE Status: ACTIVE MEMBER
 Present Grade: MEMBER
 Chapter: LONDON (11)

Date of Membership: 01 JUN 1983
 Current Grade Date: 01 JUN 1985

Date Bio Prepared: December 20, 1990
 Date Bio Revised: June 8, 1992
 Citizen of: Canada
 Place of Birth: North Vancouver, BC

2. EDUCATIONAL RECORD (Begin with High School)

<u>Institution</u>	<u>Course</u>	<u>Years Completed</u>	<u>Date of Graduation</u>	<u>Degree</u>
British Columbia Inst. of Technology	Mech. Engg	2	5-73	Cert. of Engg Tech.
University of Alberta	Mech. Engg	4	4-82	B.Sc. Eng

3. PROFESSIONAL REGISTRATIONS

<u>Type of Registration</u>	<u>Number of Provinces</u>	<u>List Provinces</u>
P. Eng.	1	Ontario

4. PROFESSIONAL EXPERIENCE

<u>From</u>	<u>To</u>	<u>Employer</u>	<u>Title</u>	<u>Describe Duties</u>
3-86	Pres	Univ. Western Ontario	Assoc. Director	Physical plant
8-85	3-86	Envirometrics Canada Ltd.	Project Director	Project management
11-74	8-85	Univ. of Alberta Dept. of Physical Plant	Sr. Energy Analyst	Supervise engineering staff

5. ASHRAE Activities (Other than Chapter)

<u>From</u>	<u>To</u>	<u>Name of Committee or Other Activity</u>	<u>Position</u>
6/85	6/86	Education Committee	Regional XI Vice Chairman
1985		1st Student Branch in Western Canada	Educ. Committee
6/86	6/89	Education & Chapter Programs	Region II Vice Chairman
1990	1992	Educational Activities Committee	Chairman
1990	1992	Education Council	Non/Voting Mbr-Ed Active Chm
1991	1992	ENGINEERS FOR EDUCATION REPRESENTATIVE	MEMBER OF BOARD OF DIRECTORS
		Chapter Offices Held	
1988	1989	Treasurer	
1989	1990	Secretary	
1992	1993	EDUCATION COUNCIL	MEMBER (VOTING).

BOYCE 1008700

1990 1991 Vice President
1991 1992 President

From To Chapter Committees

1984 1985 Education
1992 1995 RESEARCH PROMOTION

Position

Chairman ← 1990 1991 PROGRAM CHAIRMAN.
CHAIRMAN.

6. MEMBERSHIP AND ACTIVITIES IN OTHER SOCIETIES OR TRADE ASSOCIATIONS

<u>Society or Assn.</u>	<u>Grade</u>	<u>Year</u>	<u>Committee</u>	<u>Year</u>	<u>Position</u>
Canadian Assoc. for Biological Safety	Member	1984			Past President
CSA Standards Comm.	Member	1985	Biological Cabinet	1985	
APEO	Member	1987	School Outreach	1991	
Association of Energy Engineers	Member	1986			
Association of Physical Plant Administrators	Associate Member	1986			

7. PRINCIPAL TECHNICAL INTEREST AREAS (heat transfer, odor, controls, etc)

Indoor air quality, controls, commissioning, systems balancing

8. HONORS

Monetary Societies, Citations, Awards (ASHRAE First)

<u>Award</u>	<u>Organization</u>	<u>Year</u>
Outstanding Achievement Mechanical Engineering	CSME	1982

9. PUBLICATIONS

Number of Books ___
Papers ___
Articles ___

<u>Titles</u>	<u>Publication</u>	<u>Date</u>
---------------	--------------------	-------------

10. PATENTS

Number of Patents ___
List Significant Patents Below:

11. PROJECTS

<u>Project</u>	<u>Year</u>	<u>Your Relationship</u>	<u>Significance</u>
Chapter Student Branch of U of A	1985	Education Chairman	1st Branch in Western Canada

12. CIVIC, CHARITABLE AND MILITARY SERVICE

Kinmen Association; Past President Beaumont Club

13. LANGUAGES

<u>Language</u>	<u>Read</u>	<u>Speak</u>
English	X	X

BIOGRAPHICAL RECORD

1. BASIC DATA

DATE PRINTED: 18 APR 1991

Name: JOHN B. BISSET
 Mbr#: 0064827
 Pref. Add: Business Pref. Phones: Business

Date of Birth: 08 JAN 1940

Home Address: 90 SHAVIAN BOULEVARD
 City: LONDON State: ON Country: CANADA Zip: M6G 2P3
 Telephone: 519/642-2102

Employer: CHORLEY & BISSET LTD
 Business Add: 521 COLBORNE ST
 City: LONDON State: ON Country: CANADA Zip: M6B 2T6
 Telephone: 519/679-8660
 Fax: 519/679-2145

ASHRAE Status: ACTIVE MEMBER
 Present Grade: MEMBER
 Chapter: LONDON (11)

Date of Membership: 01 DEC 1969
 Current Grade Date: 01 DEC 1974

Date Bio Prepared: 12 Jun 1990
 Date Bio Revised: 18 Apr 1991
 Citizen of: Canada
 Place of Birth: Scotland

2. EDUCATIONAL RECORD (Begin with High School)

<u>Institution</u>	<u>Course</u>	<u>Years Completed</u>	<u>Date of Graduation</u>	<u>Degree</u>
London, Ontario	Academic	4	1958	
St. Clair College	Mech Technology	3	1961	Technologist
Professional Engrg. Exam	Mechanical	6	1968	P. Eng

3. PROFESSIONAL REGISTRATIONS

<u>Type of Registration</u>	<u>Number of States</u>	<u>List States</u>
P. E.	2	Ontario, Alberta

4. PROFESSIONAL EXPERIENCE

<u>From</u>	<u>To</u>	<u>Employer</u>	<u>Title</u>	<u>Describe Duties</u>
1973	Pres	Chorley & Bisset	President	Business development, concept engineering
1961	1973	M.M. Dillon Ltd	Mech Dept Head	Responsible for all mech design work

5. ASHRAE History (Other than Chapter)

<u>From</u>	<u>To</u>	<u>Name of Committee or Other Activity</u>	<u>Position</u>
1992	-	Nominating Committee	Region II
1990	1992	Educational Activities	Region II
1981	1982	Journal	Chairman
1978	1981	Journal	Member
1980	1982	Publishing Council	ExO Member
1981	1982	Handbook	ExO Member
1982	1984	Terminology	Member
1989	1991	ASHRAE JOURNAL EDITORIAL BOARD	Member

Chapter offices held, with dates:

All executive positions; president 1973-74

Chapter committees:

Research Promotion

6. MEMBERSHIP AND ACTIVITIES IN OTHER SOCIETIES OR TRADE ASSOCIATIONS

<u>Society or Assn.</u>	<u>Grade</u>	<u>Year</u>	<u>Committee</u>	<u>Year</u>	<u>Position</u>
Natl Research Council of Canada	Member		Technician/Technology Senior Advisory Comm	1977	Member
NSPE					
ASPE					

7. PRINCIPAL TECHNICAL INTEREST AREAS (heat transfer, odor, controls, etc)

HVAC controls, energy management

8. HONORS

Honorary Societies, Citations, Awards (ASHRAE First)

<u>Award</u>	<u>Organization</u>	<u>Year</u>
2nd place Energy	ASHRAE (society)	1987
1st Place Energy	ASHRAE (Region II)	1986
2nd Place Energy	ASHRAE (Region II)	1987

9. PUBLICATIONS

Number of Books:
Papers: 4
Articles: 2

<u>Titles</u>	<u>Publication</u>	<u>Date</u>
Design Study on Solar Energy Systems for Commercial buildings	ASHRAE Journal	1979
	ASHRAE Transactions	1979

10. PATENTS

Number of Patents:
List Significant Patents Below:

11. PROJECTS

<u>Project</u>	<u>Year</u>	<u>Your Relationship</u>	<u>Significance</u>
University of Western Ontario	1975	Project Engineer	Campus central control system
Govt. of Canada Offices	1975	Project Engineer	Energy efficient offices
Queensway-Carleton Hospital	1983	Project Engineer	Energy management system
Parkwood Hospital	1983	Project Engineer	New 430 bed

BISSET 0064827

12. CIVIC, CHARITABLE AND MILITARY SERVICE

Member of Technical and Technology Senior Advisory Committee for Fanshawe Community College,
London, Ontario

Member of Programme Advisory Committee for energy Management Technology, St. Clair College of Applied
Arts & Technology, Windsor, Ontario

13. LANGUAGES

<u>Language</u>	<u>Read</u>	<u>Speak</u>
English	X	X

