

ASHRAE REGION II CRC 1988

FEBRUARY 1, 1991

To: Tom Drennan, President
Darryl K. Boyce, Vice-President & signing authority
Owen Glendon, Secretary
Peter K. Ziebart, Treasurer

copy
copy
copy
copy & original

From: DMR Johnson, signing authority

copy

Revenu Canada Taxation		Revenu Canada Impôt		T5 Supplementary Supplémentaire Rev. 90		STATEMENT OF INVESTMENT INCOME ÉTAT DES REVENUS DE PLACEMENT	
Year 1990 Année	13 Interest from Canadian Sources 230.00 Intérêts de source canadienne	21 Report Code Code de genre de feuillet 0	22 Social Insurance Number N° d'assurance sociale	23 Recipient Type Genre de bénéficiaire 3	205389336		
RECIPIENT: SURNAME FIRST, AND FULL ADDRESS BÉNÉFICIAIRE: NOM DE FAMILLE D'ABORD, ET ADRESSE COMPLÈTE ASHRAE REGION II CRC 1988 C/O DONALD M R JOHNSON 499 PALMTREE AVE LONDON ONTARIO N6H 3P7				NAME AND ADDRESS OF PAYER (Must appear on each slip) NOM ET ADRESSE DU PAYEUR (À inscrire sur chaque feuillet) CANADA TRUSTCO MORTGAGE CO. 215 OXFORD STREET WEST LONDON, ONTARIO N6H 1S5			
For Recipient - Keep this slip for your records SEE INFORMATION ON REVERSE				REFER TO ABOVE FOR CERTIFICATE DETAILS VOIR CI-HAUT POUR TOUT DETAIL CONCERNANT LES CERTIFICATS			
				3			
				Pour le bénéficiaire - Conserver pour vos dossiers VOIR LES RENSEIGNEMENTS AU VERSO			

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For Recipient - Attach to your income tax return SEE INFORMATION ON REVERSE				Pour le bénéficiaire - Annexer à votre déclaration d'impôt sur le revenu VOIR LES RENSEIGNEMENTS AU VERSO			
				2			



ASHRAE

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

1791 Tullie Circle, NE • Atlanta, Georgia 30329 • 404-636-8400 • Tlx 705343 ASHRAE • Fax 404-321-5478

Jim L. Heldenbrand, P.E.
Manager of Standards

C. J. & BISSET LTD.	
REC'D DEC 18 1990	
1	208
2	626

December 10, 1990

TO: Individuals, Organizations and Agencies Concerned
with Energy Efficient Design of Buildings

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has just announced the availability of a public review draft for :

90.1a Addendum to 90.1-1989, "Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings"

The 60-day public review comment period begins December 12, 1990 and closes on February 11, 1991. Copies of the draft may be obtained by sending a check for \$15 each payable to ASHRAE, Publication Sales, 1791 Tullie Circle NE, Atlanta, GA 30329.

For an additional \$5, a diskette is available comprising Version 2.2 of the ENVSTD program which incorporates changes proposed in Addendum 90.1a. Please specify 3-1/2" or 5-1/4" diskette when ordering. Comments should be sent to the attention of the Manager of Standards at the above address.

Sincerely,

Jim Heldenbrand

Jim L. Heldenbrand
Manager of Standards

JLH:tjc

Handwritten notes on the left margin, including the word "Bergmann" and some illegible characters.



RECEIPT/INVOICE FOR CONTRIBUTION TO
ASHRAE RESEARCH CANADA
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 POUR RECHERCHE SCIENTIFIQUE AU CANADA

ASHRAE RESEARCH CANADA

Montreal, Quebec

Affiliated with ASHRAE, 1791 Tullie Circle, NE, Atlanta, GA 30329—U.S.A.

CONTRIBUTOR/PARTICIPANT

NAME REPRESENTATIVE AND ADDRESS

CHORLEY & BISSET LIMITED
 521 COLBORNE STREET
 LONDON ON N6B 2T6

NOM DU REPRESENTANT ET ADRESSE

INDICATE CHANGES HERE
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DATE: April 4, 1991 CHAPTER/ CHAPITRE LONDON (116) SOLICITED BY/ SOLLICITE PAR GRANT HILLIARD

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\$ 500.⁰⁰

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Send acknowledgment to/Faire parvenir accuse de reception a:

Thank you,/Merci

Signed
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Grant Hilliard
 SOLICITOR/SOLLICITEUR

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Chapter LONDON Contributor Number 1917556 C

Chapter Number 116

We wish to express our thanks for contributions received in the previous fiscal year(s):
 Nous tenons à vous remercier pour les contributions antérieures

1990	1989	1988	1987	1986
450.00	450.00	350.00	350.00	350.00

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[Faint, illegible text and markings on a lined document page]

June 5, 1991

reply to: Donald M.R. Johnson
499 Palmtree avenue
London, Ontario
N6H 3P7

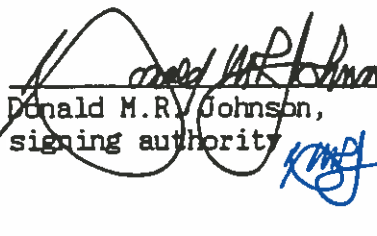
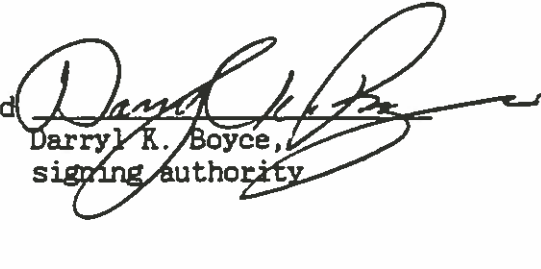
Canada Trust
Branch number 110
Platts Lane
London, Ontario N6H 1S5

CHORLEY & BISSET LTD.	
LONDON	ONTARIO
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re: Account Number 514767 - ASHRAE Region II CRC 1988


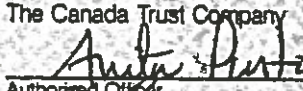
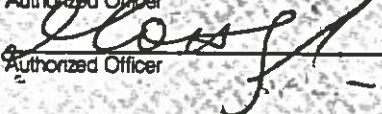
We wish to close the above account and receive the balance in the form of a cheque made payable to ASHRAE London Canada Chapter.

per:

 and 
 Donald M.R. Johnson, signing authority
 Darryl K. Boyce, signing authority

copies to: above
 Owen Glendon, Chapter Vice-president
 Peter Ziebart, Chapter Secretary
 Kirk Flowers, Chapter Treasurer

Canada Trust 

TO: THE CANADA TRUST COMPANY 215 OXFORD STREET W., LONDON, ONT.	028207
PAY <u>CANADA TRUST</u> 	DATE <u>JUNE 7 1991</u>
RE <u>ASHRAE LONDON CANADA CHAPTER</u>	\$ <u>4,110.92</u>
TO THE ORDER OF ASHRAE LONDON CANADA CHAPTER	The Canada Trust Company  Authorized Officer  Authorized Officer

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FAX

CONSULTING MECHANICAL
& ELECTRICAL ENGINEERS

521 Colborne Street
London, Ontario N6B 2T6
(519) 679-8660 (Tel)
(519) 679-2145 (Fax)

DATE : 25 March 1991

FILE NO.: ASHRAE

TO : Candi FAX NO. : 661-0810

Abco Printing

FROM: Marie for Owen FAX NO. : 1-519-679-2145

RE : Members' Addresses

0 pages follow. If copy is illegible or incomplete,
please call 1-519-679-8660 for retransmission.

Message:

Hi Candi,

Here are the proper addresses for the following people.
The one for Walter Deans didn't have a postal code so the post
office returned it marked "incomplete address".

Mr. Frank Conte
London P.U.C.
111 Horton Street
LONDON, Ontario
N6B 3N9

Mr. Walter Deans
E.H. Price Sales Ltd.
10 Pacific Court
LONDON, Ontario
N5Z 3K4

Robert P. Hayward
750 Rosedale Avenue
SARNIA, Ontario
N7V 1Z9

Allan A. Majander
Lennox Industries (Canada)
77 Bessemer Road
LONDON, Ontario
N6E 1P9

Clifton R. Morrison
Vanderwestern & Rutherford Ltd.
36 Talbot Road South
LAMBETH, Ontario
N0L 1S0

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Complete and mail to Headquarters, ASHRAE, 1791 Tullie Circle, N.E., Atlanta, Georgia, 30329, Telephone: (404) 636-8400, with a copy to your Regional Chairman. Addresses should be the same as used for other Society mailings, including your Journal, Handbook and miscellaneous mailings. Please notify Headquarters and Regional Chairman promptly of questionnaire changes.

CHAPTER OFFICERS must not use nicknames; must include area code when listing phone numbers and must list member number (#). CHAPTER OFFICERS MUST BE MEMBERS OF SOCIETY IN GOOD STANDING WITH THE GRADE OF ASSOCIATE MEMBER OR HIGHER.

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Name Darryl K. Boyce # 1008700
 Address Rm 102, Services Building
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London, Ontario Canada N6A 5B9
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 FAX # (519) 661-2174

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521 ~~Colborne~~ West COLBORNE ST
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 FAX # (519) 657-4398

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 Address _____

 Business # (____) _____
 FAX # _____

OTHER (Title) _____

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 Address _____

 Business # (____) _____
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Name _____ # _____
 Address _____

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Name _____ # _____
Address _____

Business # () _____
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Name Frank Conte # 5012117
Address London Public Utilities Commission
111 Horton Street
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FAX # (519) 661-5550

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REFRIGERATION CHAIRMAN

Name Kim Ellis # 2036785
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Business # (519) 649-1700
FAX # _____

MEETING DATES FOR THE UPCOMING SOCIETY FISCAL YEAR

July _____ October _____ January _____ April _____
August _____ November _____ February _____ May _____
September _____ December _____ March _____ June _____

Regular Meeting Location _____

CRC ALTERNATE

Name _____ # _____
Address _____

Business # () _____
FAX # _____

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FAX # (519) 659-4233

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FAX # _____

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Business # (_____) _____
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COMMITTEE CHAIRMAN**

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Address _____

Business # (_____) _____
FAX # _____

RESEARCH AT WESTERN

Breaking free of freon

By Chris Clark

Graduate School of Journalism

In recent years the air has been as thick with talk of ozone as with the stuff itself. Every year scientists warn of its depletion and officials pledge to preserve it. Every year people wonder what they can do to help.

For John Tarasuk—a professor of mechanical engineering at Western for 23 years—the answer was obvious: build a freon-free air conditioner. Traditional air conditioners ooze freon, cooling the air but attacking ozone.

Ranging from 50 to 80 kilometres above the earth, the ozone layer filters out the most harmful of the sun's powerful rays. Freon eats away at it the way a moth eats away at a sweater. For every 100 percent of the ozone layer destroyed, incidence

and \$90,000 from the Natural Sciences and Engineering Research Council, Tarasuk is poised to revolutionize the air conditioning industry and reduce the pressure the world is applying to its ozone layer.

A careful and reserved researcher, Tarasuk does not describe his work in such sweeping terms, but its importance is easy to infer as he patiently describes the concept and its ramifications.

Freon is essential in traditional air conditioners. It pulses through coils, is compressed to high temperatures, and is allowed to expand and cool to well below room temperature. At its coolest, it chills air blown into a house or office. The sys-

tem is cooled at Vancouver's University of British Columbia.

could work for a long time."

Like others who have made scientific breakthroughs, Tarasuk has brought together some basic concepts, mixed them uniquely, and thrown in an original thought. The result is an experimental air conditioner capable of cooling a medium-sized house, powered by natural gas or a solar collector.

Anyone who has a humidifier owns part of the Tarasuk system. The concept is simple: as air is saturated it cools. Many hotels in Arizona use humidifiers as air conditioners, he notes. In the bone-dry Arizona air, the water needed to cool a hotel

tened. The result is cool, dry air: air conditioned.

Alas, there is a hitch. The crucial triethylene glycol breaks down quickly and must be regenerated, much as a car battery is constantly being recharged while the engine is running.

To regenerate the glycol, Tarasuk needs an energy source. "I think we've beaten the regeneration problem," he says, nodding but suppressing a smile. His solution is natural gas. He sees a day when new homes will be equipped with a small unit next to the furnace, pumping cool air during summer, burning clean, plentiful natural gas. Although

Could be adapted for cars

does not make the air muggy. In most climates, where the air is hot and arid.

the system would require electricity to power fans, without the compressor the electricity de-

cent, scientists estimate.

Tarasuk, of Western's Mechanical Engineering Department, began work on a revolutionary air conditioning system 18 months ago. It not only eschews freon but also renders obsolete the energy-draining compressor in current air conditioners.

With the help of research assistant Rashid Showole, graduate student Richard Berkmorel,

problems, one noisy compressor has a thirst for electricity. To make matters worse, as the unit ages, freon escapes from its coils, waiting up to meet and destroy the ozone layer.

A solution had been simmering in Tarasuk's mind. "My basic studies have been of heat transfer by convection, trying to predict the flow of air," he explains. "Freon was my primary concern. I've had a sense this

Tarasuk's approach. By filtering outside air through a non-toxic substance called triethylene glycol, he removes any trace of moisture. The air is heated up well above outside temperatures, but it is as dry as Arizona in July.

Tarasuk then takes his dry, hot air and cools it with outside air cooled by saturation. The two air flows run through a heat exchanger but never mix. The dry air is cooled but not mois-

or simple near pump. Cooling is increased significantly.

The system could be adapted for cars. Although companies such as General Motors and Nissan have begun recycling freon when servicing air conditioners, it still escapes into the atmosphere during normal use.

Tarasuk is anxious to adapt the technology in another project: a solar car. He and his Sunstang team have kicked off a campaign to raise \$500,000 to build a car that they'll race across the Australian outback in 1993. In a race where simply finishing is a major accomplishment, the driver of the car, if nothing else, at least will be cool as he crosses the continent down under.

It's just one of many examples Tarasuk imagines in which the glycol technology will be used, keeping people cool without destroying the ozone layer. He expects to complete this phase of his air conditioning research within 18 months. By then, "we will be in a position to draw significant conclusions."

Right now Tarasuk is neck and neck with a group of Houston researchers who are working on a related project, using silicone gel in place of Tarasuk's triethylene glycol. He's hoping to get more funding so that when's he's ready to actually build a prototype air conditioner for home use, he can go ahead.



Prof. John Tarasuk with his freon-free air conditioner (Photo: Chris Clark)

Ullie please

→ Add to ashuae list ✓

1

REGION II ROSTER 1991-92

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QUEBEC	* YVES VEZINA HYDRO-QUEBEC 2625 BLVD. LEBOURDNEUF QUEBEC, (QUEBEC) B2C 1P1 418-843-7390 FAX 418-845-7790	+ JEAN BUNDOCK ROCHE LTEE. S.C. 2535 BLVD. LAURIER STE-FDY, QUEBEC B1V 4M3 418-654-9600 FAX 418-654-9811		DENIS FORTIN SOLIVAR G.C. LTEE. 5355 BLVD. des GRADINS QUEBEC (QUEBEC) B2J 1C8 418-623-2254 FAX 418-622-1137	ROBERT E. DOLLARD LE GROUPE MASTER LT 1625 rue AMPERE QUEBEC, (QUEBEC) B1P 418-683-2587 FAX 418-683-5562
SABUENAY	* REAL GAUDREAU TREMLAY GAUDREAU VENTILATION INC. 415 RUE RACINE EST. CHICOUTIMI, QUE. G7M 1B8 418-549-0481 FAX 418-549-7454	+ DENIS BERBERON CONSULTECH 555 rue BEGIN CHICOUTIMI, QUE. G7M 4N7 418-545-1407		PIERRE LAVOIE TRANE CANADA INC. 526 rue MARCEL PORTAL CHICOUTIMI, QUE. G7J 4P2 418-549-9735 FAX 418-547-5738	DENIS BERBERON CONSULTECH 555 rue BEGIN CHICOUTIMI, QUE. G7M 418-545-1407
MONTREAL	* MAGDI ASSAAD 12024 ST-EVARESTE MONTREAL, QUE. H4J 2B5 514-744-7829 FAX 514 744-7545	+ DANIEL ROBERT 1930 RUE GAGNON LACHINE, QUE. H8T 3M6 514-636-0444 FAX 514-636-0001	HARRY TOPIKIAN 1300 JULES POITRAS ST-LAURENT, QUE. H4N 1K8 514-337-3331 FAX 514-337-4820	ALBERT DE LUCA 8465 DEVONSHIRE MONTREAL, QUE. H4P 2L1 514-735-8483 FAX 514-735-9789	ROLAND CHARNEUX 210 CREMAZIE O. STE MONTREAL, QUE. H8P 514-382-5150 FAX 514-384-9872
OTTAWA	* CHRIS FRAULEY 1382 ORILLIA STREET OTTAWA, ONT. K1M 7N7 613-232-3511 FAX 613-235-8390	+ NEIL ARMSTRONG YORK AIR CONDITIONING 155 COLONNADE RD # 9 NEPEAN, ONT. K2E 7K1 613-226-1507 FAX 613-225-6215		ROSS McINTYRE GOODKEY NEEDMARK ASSOC 1749 WOODWARD DRIVE OTTAWA, ONT. K2C 0P9 613-727-5111 FAX 613-727-5115	PIERRE de BAGNE 12 FARDON WAY OTTAWA, ONT. K1B 4N2 613-564-2297 FAX 613-564-9852
TORONTO	* CEDRIC J. SMITH CITY OF SCARBOROUGH DEPT. OF BUILDINGS 150 BROUGH DRIVE FL3 SCARBOROUGH, ON M1P 4N7 416-396-7309 FAX 416-396-4266	+ WILLIAM G. FINES 155 CLEARVIEW HTS. P.O. BOX 956 KING CITY, ONT. L0B 1K0 416-487-8151 FAX 416-487-9104	JOHN HODGE 48 LANDEVIN CRESC. WEST HILL, ONT. M1C 2B6 416-592-5066 FAX 416-592-8761	ARNI THORARINSON 1282 KIPLING AVE. ISLINGTON, ON M9B 3N5 416-928-5031 FAX 416-928-3522	DOUGLAS A. TAYLOR ONTARIO HYDRO 5760 YOUNG STREET WILLOWDALE, ON M2M 1C 416-222-2571/3335 FAX 416-222-4136
MISSISS- AUGA	* LOU DOODY 2394 DEER RUN AVE. DARVILLE, ONT. L6J 6K6 416-844-3425 FAX 416-844-3437		BORDON FISHER P.O. BOX 167 STREETSVILLE, MISSISSAUGA, ON L5M 2B8 416-858-4500 FAX 416-858-4520	FRANK PAULD 6470 VISCOUNT ROAD MISSISSAUGA, ON L4V 1H2 416-678-7780 FAX 416-678-9669	LINTON MURRAY 5335 DRENKELLY CRESC MISSISSAUGA, ON L5M
HAMILTON	* DAVID RASMUSSEN DELHI INDUSTRIES INC. 523 JAMES STREET DELHI, ONT. N4B 2Z3 416-575-5542 FAX 416-582-0581	+ DARYL SOMERS C.M. O'DELL ASSOC. LTD. 2079 KILBRIDE RD. KILBRIDE, ONT. L0P 1S0 416-332-0093 FAX 416-332-6734	JOHN THORNE FIBREGLAS CANADA INC. 4100 YOUNG STREET MILLOWDALE, ONT M2P 2B6 416-730-7897 FAX 416-733-8613	WILFRED LAMAN CDN. BLOWER/CANADA PUMPS 289 QUEENSTON RD. HAMILTON, ONT. L8K 1H2 416-547-1929 FAX 416-547B-2305	JOHN POLLOCK HUSGMANN STORE EQUIP P.O. BOX 550 BRANTFORD, ONT. N3T 519-756-6331 FAX 519-756-3576
LONDON	+ DARRYL K. BOYCE SERVICES BLDG. RM. 102 UNIV. OF WESTERN ONT. LONDON, ONT. N6A 5B9 519-661-3302 FAX 519-661-2174	OWEN BLENDON CHORLEY & BISSET LTD. 521 COLBORNE ST. LONDON, ONT. N6B 2T6 519-679-8660 FAX 519-679-2145	(PAST PRESIDENT) * TOM DRENNAN DRENNAN REFRIG. INC. 1777 OXFORD STREET E. LONDON, ONT N5V 2Z6 519-453-9100 FAX 519-659-4233	PETER K. ZIEBART ONTARIO HYDRO 1075 WELLINGTON RD. E. LONDON, ONT. N6E 1M1 519-681-1390 FAX 519-681-9672	KIRK FLOWERS RAYTEC 99 CHALET CRESC. LONDON, ONT. N6K 2C5 519-657-4398 FAX 519-657-4398
WINDSOR	* GREGORY T. BLACK UNION GAS LTD. 50 KEIL DRIVE N. CHATHAM, ONT. N7A 3M7 519-352-3100 FAX 519-436-4566	+ THOMAS M. McDONALD UNIVERSITY OF WINDSOR DEPT OF MRCH. ENGG. WINDSOR, ONT. N9B 3P4 519-253-4232/2623 FAX 519-973-7062		DONALD E. WINKUP CHRYSLER CANADA 1211 COVENTRY CRESC. WINDSOR, ONT. N9S 2W9 519-948-8314	STEVEN KOUTSONICOLAS 1920 WESTCOTT WINDSOR, ONT. N9W 4K8 519-254-2365



REGION	V/C REFRIGERATION	NON. COMM. MEMBER	NON. COMM. ALTERNATE	REGIONAL HISTORIAN	CRC GEN. CHAIRMAN
	JOHN B. POLLOCK HUSBMAN STORE EQUIPMENT P.O. BOX 550 BRANTFORD, ONT. N3T 5R2 519-756-6351 FAX 519-756-3376	ROBERT J. MORRIS 1452 UPPER JAMES STREET HAMILTON, ONT. L9B 1K3 519-756-5760 FAX 519-756-5760	PAUL R. CONRAD TRANE COMPANY BEDFORD TRADE MART 105 ROCKY LAKE DR. STE 1 BEDFORD, NB, B4A 2T3 902-838-7491 FAX 902-835-0484	CLIFFORD THOMPSON RR #5 CAMPBELLFORD, ONT. KOL 1L0 705-653-5091 FAX -	DAN CASTELLAN UNIVERSITY OF WINDSOR PHYSICAL PLANT MAINT WINDSOR, ONT. N9B 3P 519-253-4232 FAX 519-973-7050

CHAPTER COMMITTEE CHAIRMEN

CHAPTER	MEMBERSHIP PROM.	RESEARCH PROM.	EDUCATIONAL ACT.	ENERGY/TECH AFFAIRS	REFRIGERATION
HALIFAX	PETER MELNYK LANDIS BYR & POWERS LTD 2 BLUEWATER ROAD BEDFORD, NB, B4A 1E3 902-835-8316 FAX 902-835-	DOUG RAFUSE CITY OF HALIFAX P.O. BOX 1749 HALIFAX, NS, B3J 3A3 902-421-6414 FAX 902-422-4388	WILLIAM AHEARN 3152 MAYFIELD AVE. HALIFAX, NS, B3L 4B2 902-423-6459 FAX -	PETER HEALY ALL-ENERGY ENG. LTD. 5531 CORNWALLIS ST. HALIFAX, NS, B3K 1B3 902-425-6052 FAX 902-423-4949	TERRY PHELAN R.L. FULTON LTD. P.O. BOX 1402M 5634 RUBBELL STREET HALIFAX, NS, B3K 5H7 902-453-2650 FAX 902-453-5116
NB/PEI	IRWIN C. MacDONALD 169 PACIFIC AVE. MONCTON, NB, E1E 2B4 506-857-1675 FAX 506-857-1679	BARY D. FAHIE 71 VICTORIA STREET MONCTON, NB, E1C 1P3 506-857-4887 FAX 506-857-4989	GRAHAM R. FAWCETT 125 HARVEY ROAD RIVERVIEW, NB, E1B 2K2 506-384-4507 FAX -	GERALD WASELYNCHUK 120 RIDEOUT STREET MONCTON, NB, E1E 1E2 506-857-8788 FAX 506-857-9890	ALYRE BALLANT 134 HAZEN DRIVE MONCTON, NB, E1C 4K3 506-857-2233 FAX 506-857-9981
QUEBEC	CHRISTIAN LESBARD CENERGIE QUEBEC INC. 2272/100 CHENIN STE. FOY STE. FOY, QUE. G1V 1S6 418-839-7734 FAX 418-839-4914	YVES TRUDEL ENERTRAK INC. 758 de la RIVIERE QUEBEC, QUE. G1X 4L7 418- 871- 9105 FAX 418-871-2898	MARC FONTAINE G.C. POLIGEC INC 1090 LOUIS RIEL STE. FOY, QUE. G1M 4A8 418-651-8661 FAX 418-653-8318	DENIS POTVIN LEBEL LAQUERRE ET ASSOC 1389/205 ave BALILEE QUEBEC, QUE. G1P 4E4 418- 687-2024 FAX 418-687-2048	JEAN L'HEUREUX 350 31 ^{em} RUE C.P.31 LIMOULOU, QUE. G1L 4 418-529-0427 FAX 418-647-4065
SAGUENAY	GUY BUEVIN CEGEP JONQUIERE 2505 ST. HUBERT JONQUIERE, QUE. G7X 7W2 418-547-2191 FAX 418-547-0195	JEAN PERRON G. C. SAGUENAY 159 COTE SALABERRY CHICOUTIMI, QUE. G7H 4K2 418-549-6471 FAX 418-549-3268	FRANCE RENAUD CEGEP JONQUIERE 2505 rue ST. HUBERT JONQUIERE, QUE. G7X 7W2 418-547-2191 FAX 418-547-0195	RAYALD BOUCHARD LES CONSULTANTS GENIVEL 343/105 des SAGUENEENS CHICOUTIMI, QUE. G7H 6K9 418-549-8092 FAX 418-543-0308	RICHARD BOUCHER B.B.S. REFRIGERATION 1777 boul. TALBOT CHICOUTIMI, QUE. G7H 418-543-9736 FAX 418-543-3019
MONTREAL	DOMINIC IRACCI 8748 PIE IX MONTREAL, QUE. H1Z 3V1 514-393-5935 FAX 514-393-9901	TONY DI FRUSCIO 6400 VANDENABEELE ST-LAURANT, QUE H4E 1R9 514-333-5340 FAX 514-333-6680	REUBEN BRASLOFF 4136 CUNRAD ST. MONTREAL, QUE. H4P 1P2 514-342-0737	LAURIER NICHOLS 1200 BLVD. ST. MARTIN W. LAVAL, QUE. H7S 2E4 514-384-5660 FAX 514-888-8232	BERNARD VIAU 5420 PARE MONTREAL, QUE. H4P 1 514-342-3400 FAX 514-342-2486
OTTAWA	MARC CARRIERE GOODKEY WEEDMARK ASSOC 1749 WOODWARD DRIVE OTTAWA, ONT. K2C 0P9 613-727-5111 FAX 613-727-5115	BYRON LANDRY 1498 YORK HILLS DRIVE ORLEANS, ONT. K4A 2N4 613-728-3571 FAX 613-728-6012	FRANK VACULIK PUBLIC WORKS CANADA SIR CHAS. TUPPER BLDG. RIERSIDE DRIVE OTTAWA, ONT. K1A 0N2 613-736-2687 FAX 613-998-8360	ANDREW BOGDANOWICZ GOODKEY WEEDMARK ASSOC 1749 WOODWARD DRIVE OTTAWA, ONT. K2C 0P9 613-727-5111 FAX 613-727-5115	TBA
TORONTO	MARIO CHIARELLI ONTARIO HYDRO 700 UNIVERSITY AVE. C25-06 TORONTO, ONT. M5C 1X6 416-592-9546	RAY E. REPO CONSUMERS GAS CO. P.O. BOX 650 SCARBOROUGH, ONT. M1K 5E3 416-495-3407 FAX 416-495-5657	BARRY MOORE 61 LAKESIDE AVE. SCARBOROUGH, ONT. M1N 3C3 416-675-3111/4134 FAX 416-675-1403	JOHN D. CONAN CONAN QUALITY BUILDINGS 74 WILLOWBANK BLVD. TORONTO, ONT. M5N 1B6 416-322-6423	TBA
MISSISSAUGA	JOHN SAMSON 126 EAST DRIVE BRAMPTON, ONT. L6T 1C2 416-791-3330 FAX 416-793-8534	BERNIE RATLEDGE 1062 JOHNATHAN DRIVE MISSISSAUGA, ON L4Y 1K1 416-896-5779 FAX 416-896-5220	MIKE ACKROYD 6221 PRAIRIE CIRCLE MISSISSAUGA, ON L5N 5Y6 416-822-2540 FAX 416-822-5182	MONIKA DZIEWIECKA 400 MORRIS GLEN ROAD ETOBICOKE, ONT. M9C 1M5 416-621-9302 FAX 416-621-6303	COLIN MCGUGAN 2360 BONNER RD. AP. 11 MISSISSAUGA, ON L5J 2I 416-231-6886 FAX 416-231-2585
HAMILTON	JOHN THORNE FIBREGLAS CANADA INC. 4100 YOUNGE STREET WILLOWDALE, ON M2P 2B6 416-730-7897 FAX 416-733-8613	RAY BATES HONEYWELL LTD. 2511 BARTON STREET EAST HAMILTON, ONT. L8E 2X1 416-573-4562 FAX 416-573-4595	BILL DVINGTON KEEPDRITE INC. 2289 FAIRVIEW ST. STE 316 BURLINGTON, ON L7R 2E3 416-632-4980 FAX 416-847-5496	BORDON LANDOND UNION GAS LTD. 315 COLBORNE ST. BRANTFORD, ON N3T 5M4 519-756-2330 FAX 519-758-2389	PRICE STANTON ZER-O-LOC 373 ELGIN ST. P.O. 41 BRANTFORD, ON N3T 6N: 519-754-4500 FAX 519-754-4214
LONDON	FRANK CONTE LONDON PUBLIC UTIL. COMM 111 HORTON ST. LONDON, ONT. N6B 3N9 519-660-0938 FAX 519-661-5550	TOM DRENNAN DRENNAN REFRIG. INC. 1777 OXFORD ST. EAST LONDON, ONT N5V 2Z6 519-453-9100 FAX 519-659-4233	JOHN W. REID J-M CANADA INC. P.O. BOX 5757 LONDON, ONT. N6A 4T1 519-452-6104 FAX 519-492-6167	BRANT MILES 80 NATHANIEL COURT LONDON, ONT. N5X 2N5 519-	KIM ELLIS ENGINEERED AIR 60 MEG DRIVE, #13 LONDON, ONT. N6E 3T6
WINDSOR	FRANK FRABOTA R.R. #2, OLD CASTLE, ONT. NOR 1L0 519-966-1550	GREGORY DUFOUR BRYANT HTB & COOLING 3195 DEVIN RD. WINDSOR, ONT. N8X 4L2 519-966-1550	DAVID McCORMICK R.R. #1 HARROW, ONT. NOR 1B0 519-738-2105	LAURENCE MILLS CDN BLOWER/CANADA PUMPS 242-A INDIAN RD. STE 203 BARNIA, ONT. N7T 3W4 519-344-1940	DAN CASTELLAN UNIVERSITY OF WINDSOR PHYSICAL PLT. MAINT. WINDSOR, ONT. N9B 3P4 519-253-4232 FAX 519-973-7050

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

ASHRAE / 1791 Tullie Circle, N.E. / Atlanta, GA 30329

Telephone / 404-636-8400

MS KATHERINE A D'ALIMONTE
ONTARIO HYDRO
1075 WELLINGTON RD
LONDON, ON N6E 1M1
CANADA

06 AUG 1990

Subject: Society Membership

Grade: AFFILIATE MEMBER (OVER 30)

It is my pleasure to advise you of your election to Society membership as indicated above. A membership certificate is being prepared and will be sent to you as soon as it is ready. Enclosed is your current membership card.

As a member, you are entitled to receive monthly issues of the ASHRAE Journal, Insights Newsletter and annual issues of the ASHRAE Handbook. Handbooks are distributed at the end of each fiscal year (May or June). You will receive one volume of the most currently revised edition each year. No substitutions are permitted. **As a new member, you are eligible to purchase any prior editions at a one-time 33% discount within the first year of membership. A publications catalog will be sent to you with your certificate.**

Members may be interested in participating in local activities, and the chapter serving your area will be notified of your status as a Society member. You may expect to hear from them shortly concerning chapter affiliation, local dues and notices of meetings.

Your officers and Board of Directors hope you will take full advantage of the privileges of membership and contribute to the advancement of your profession by your active participation.

Very truly yours,

Carolyn K. Stewart
Director, Education and Member Services

CKS/cge

Encl.

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



ASHRAE, 1735 I Street, N.W., Washington, D.C. 20036 Telephone: 202-842-8400

04 APR 1970

MR. CAROLINE R. STEWART
CHARTERED MEMBER
1011 W. 10TH ST.
DENVER, CO 80202

Subject: Society Membership

Grade: SPECIAL RATE MEMBER (OVER 50)

It is my pleasure to advise you of your election to Society membership as indicated above. A membership certificate is being prepared and will be sent to you as soon as it is ready. Enclosed is your current membership card.

As a member, you are entitled to receive monthly issues of the ASHRAE Journal, financial, technical and annual issues of the ASHRAE Handbook. Handbooks are distributed at the end of each fiscal year (May or June). You will receive one volume of the most currently revised edition each year. No subscriptions are awarded. As a new member, you are eligible to purchase any past editions at a one-time 30% discount within the first year of membership. A publications catalog will be sent to you with your certificate.

Members may be interested in participating in local activities and the paper serving you and will be notified of your status as a Society member. You may wish to hear from us directly concerning chapter affiliation, local dues and notices of meetings.

Your officers and Board of Directors hope you will take full advantage of the benefits of membership and contribute to the advancement of your profession by your active participation.

Very truly yours,

Carolyn R. Stewart
Director, Education and Member Services

CKS:gs

Enc



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

ASHRAE / 1791 Tullie Circle, N.E. / Atlanta, GA 30329

Telephone / 404-636-8400

MR. GREGORY D JAMES
121 HIGHVIEW AVE E
LONDON, ON N6C 5G4
CANADA

06 AUG 1990

Subject: Society Membership

Grade:

MEMBER

It is my pleasure to advise you that your advancement in Society membership to the grade indicated above was recommended by the Admissions and Advancement Committee and has been approved by the Board of Directors.

A new membership certificate is being prepared and will be sent to you as soon as it is ready. Enclosed is your current membership card reflecting your new status.

Very truly yours,

Carolyn K. Stewart
Director, Member and Chapter Services

CKS/cge

Encl.

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



ASHRAE 1791 Tullie Circle, N.E. Atlanta, GA 30329 Telephone \ 404-538-8400

Subject: Society Membership

Grade:

It is my pleasure to advise you that your advancement in Society membership to the grade indicated above was recommended by the Admissions and Advancement Committee and has been approved by the Board of Directors.

A new membership certificate is being prepared and will be sent to you as soon as this ready. Enclosed is your current membership card reflecting your new status.

Very truly yours,

Carolyn K. Stewart
Director, Member and Chapter Services

CKS:eg

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PHYSICAL PLANT
DEPARTMENT

JUL 18 1990

PHYSICAL PLANNING
& CONSTRUCTION

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

Dalton J. McIntyre
Nominating Committee Member
REGION II
1990-07-13

Reply to: 732 Southmore Dr. W.
Reponse du a: Ottawa, Ontario
K1V 7A1
613/523-1651

MEMORANDUM

NOTE DE SERVICE

To: Darryl Boyce Alternate
CRC Delegate
Chapter: London

A: _____
CRS delegue
Section

CRC MONTREAL 1990-08-23-26

CRS MONTREAL 1990-08-23-26

Further to my memo of April 02, I hope that you have already made your preparations for this CRC. At the executive session you will be presenting nominations for the society year 1991-92.

Suite a ma note de service du avril, j'espere que vous avez deja entrepris vos preparatif pour cette CRC. A la session executive vous serez charges de le presentation des candidat pour l'annee 1991-1992.

VACANT POSITIONS:

1. REGIONAL DIRECTOR (DRC)
2. VICE CHAIRMAN REFRIGERATION

POSITIONS LIBRES:

- DIRECTEUR PRESIDENT REGIONAL (DPR)
- VICE-PRESIDENT REFRIGERATION

We also require back-up nominees for each of the regional vice chairmen. Please check with your nominees for the various positions that your delegate brought to the CRC in Moncton, and make sure that they are still willing to accept the nomination. Also obtain an update on their biographical record. Also, this year, I would like to have a one page letter from you or some other chapter member giving the reasons why the nominee would be suitable for the job.

On demande aussi des candidats interimaire pour chacuns vice-presidents regionaux. Veuillez s'il-vous-plait confirmer la candidature de tous ceux presentes a la CRS de Moncton afin de s'assurer qu'ils acceptent encore leurs nominations. De plus, veuillez elaborer d'avantage sur leurs resumes biographiques. Une lettre d'une seule page de vous ou de l'un de vos societaires decrivant le contexte de la candidature pour toutes nominations proposees sera aussi necessaire.

Since you are probably the president of your chapter, and are presently involved in setting up your committee chairmen and arranging for them to attend the CRC, have the other members of your CRC Action Committee obtain the biographical data you need. You received Bio forms from Atlanta, together with other CRC data; please use them, and bring a minimum of 12 completed copies with you.

Do not forget to include nominations for honours and awards, and recommendations for society committees.

Julius Olsen from Toronto is serving his first of a possible two years as VP. He could be nominated for the Treasurer's position at our CRC, or a second term as VP.

Ian Mackie from Vancouver is our Canadian DAL, but we can still nominate others as DAL.

George Buckler has completed his two years as VP, but he can be renominated as VP or as Treasurer at our CRC for 1991-92.

This year Bob Morris is the alternate, and I am the member for the nominating committee, please correct the document you received from Joyce Woodward dated June 27.

Attached is another copy of the Nominating Committee Guidelines.

Puisque vous êtes sans doute le président de votre section et que vous êtes impliqué dans la sélection des chefs de comités et que vous les encouragez à participer à la CRS; veuillez recruter les autres membres de votre comité d'initiative CR afin de développer l'information biographique nécessaire. S.V.P. utiliser les formulaires biographiques que vous avez reçus d'Atlanta, et apporter avec vous au moins 12 copies complétées.

N'oubliez surtout pas les nominations d'honneurs, distinctions et les recommandations pour comités sociétaires.

Julius Olsen de Toronto occupe le poste de Vice-Président pour une période d'un ou deux ans. Il pourrait être désigné au poste de trésorier à notre CRS ou une deuxième année au poste de Vice-président.

Ian Mackie, de Vancouver est notre DG canadien, mais ceci ne nous empêche pas de nommer d'autres individus pour le poste de DG.

George Buckler a complété son stage de deux ans au poste de V.P., mais ceci n'empêche pas qu'il peut être renominé V.P. ou Trésorier pour 1991-92.

Bob Morris est l'interimaire et je suis membre du comité de nominations. S.V.P. corriger le document que vous avez reçu de Joyce Woodward, à cet effet, daté le 27 juin.

Vous trouvez sous-pli une autre copie des règles du comité de nominations.



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

ASHRAE / 1791 Tullie Circle, NE. / Atlanta, GA 30329

Dalton J. McIntyre
Nominating Committee
Region II
1990-04-03

Reply to: 732 Southmore Dr. W.
Ottawa, Ontario
K1V 7A1
613/523-1651

MEMORANDUM

NOMINATING COMMITTEE GUIDELINES

AT THE REGIONAL LEVEL

DIRECTOR, REGIONAL CHAIRMAN (DRC)
3 yr. term
FULL MEMBER for five years
Should have regional experience

VICE CHAIRMAN (VC) 3 yr. term
FULL MEMBER for 3 years
Chapter executive experience
Chapter committee chairman

NOMINATING COMMITTEE MEMBER or
NOMINATING COMMITTEE ALTERNATE
FULL MEMBER for 5 years
Regional experience and chapter
executive experience, plus society
committee experience.

AT THE SOCIETY LEVEL

TREASURER 1 yr term
Vice President, and Member of the
Finance Committee

VICE PRESIDENT (VP) 1 to 2 yr. term
Experience as a DRC, or DAL who has
been active at the chapter or
regional level.

DIRECTOR-AT-LARGE (DAL) 3 yr. term
FULL MEMBER for 5 years
Service on Technical Committees,
and chapter participation.

You have chapter members who can
serve in these positions. Ask them
to allow you to nominate them.

NOTE DE SERVICE

LES RÈGLES DU COMITÉ D
NOMINATION

AU NIVEAU RÉGIONAL

DIRECTEUR, PRÉSIDENT REGIONAL
(DPR) terme de trois ans
MEMBRE à part entière pour 5 an
se doit d'avoir de l'expérienc
au niveau régional.

VICE-PRÉSIDENT (VP) membre a par
entière pour trois ans avoir d
l'expérieence au niveau exécutif
Être président du comité de l.
section.

MEMBRE DU COMITÉ DE NOMINATION ou
MEMBRE INTÉrimAIRE DU COMITÉ DE
NOMINATION, membre a part entière
pour cinq ans - avoir
d'expérieence au niveau régional
au niveau executif de la section
et au niveau du comité de la
société.

AU NIVEAU DE LA SOCIÉTÉ

TRÉSORIER, terme d'un an
Vice-président et membre du
comité financier

VICE-PRÉSIDENT terme d'un a deux
ans avoir de l'experience comme
(DPR) ou (DG) actif au niveau de
la section.

DIRECTEUR GLOBAL, (DG) terme de
trois ans - membre à part entière
pour cinq ans; avoir fournit
des services sur les comités
techniques et participer aux
activités de la section.

Si un membre dans votre section
est adéquat pour ces positions,
demandez-lui de vous permettre de
porter sa candidature.

Handwritten notes and a circular stamp on the right side of the page. The text is mostly illegible due to fading and bleed-through. The circular stamp appears to be a library or archival mark.



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

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CHORLEY & BISSET LTD.	
LONDON	ONTARIO
FILE NO.	
REC'D AUG - 2 1990	
1	JBB

TO: Chapter Secretaries
 FROM: Debra Canady-Foster
 DATE: July 17, 1990
 SUBJECT: Chapter Rosters

Attached you will find your chapter roster, listing all members and students assigned to your chapter area. Please review this listing and inform us of any changes that you are aware of.

You should maintain this roster and incorporate any changes/additions as you receive your monthly chapter change reports throughout the year. An explanation sheet and grade breakdown are also included to assist you in interpreting this roster.

Please feel free to contact me directly if there are any questions or problems.

cc: Membership Promotion Committee
Chapter Presidents

GRADES

<u>DESCRIPTION</u>	<u>CODE</u>
MEMBER	A
MEMBER (Exempt)	B
LIFE MEMBER	C
ASSOCIATE MEMBER (Over 30)	D
ASSOCIATE MEMBER (Under 30)	E
ASSOCIATE MEMBER (Exempt)	F
LIFE ASSOCIATE MEMBER	G
AFFILIATE MEMBER (Over 30)	H
AFFILIATE MEMBER (Under 30)	I
AFFILIATE MEMBER (Exempt)	J
LIFE AFFILIATE MEMBER	K
STUDENT	L
STUDENT (Exempt)	M
FELLOW	N
FELLOW (Exempt)	O
HONORARY MEMBER	P
PRESIDENTIAL MEMBER	Q
RETIREE MEMBER	R
RETIREE ASSOCIATE MEMBER	S
RETIREE AFFILIATE MEMBER	T
RETIREE FELLOW	U
FELLOW/LIFE MEMBER	V

MEMBERSHIP MASTER LISTING

08 DEC 1988

PAGE 1

1- CHAPTER 021 PHILADELPHIA	2- MEMBER #	HOME ADDRESS	4- BUS/ALT ADDRESS	12- GRADE	13- STATUS	14- FUNCT ACT	15- BROAD	C LIFE MEMBER	07/01/88
	00049930	ROBERT L. BLOCH 67 A RTN BOULEVARD EXT P O BOX 4039 HARRDEN, NJ 07060	PAULUS SOKOLOWSKI & SARTO 67 A RTN BOULEVARD EXT P O BOX 4039 HARRDEN, NJ 07060					ACTIVE MEMBER	02/10/88
								DESIGN AND APPLICATION	07/01/87
5- PHILF ADDRESS B	PREF PHONE	6- FAX	609/347-0565	TELEX	TECHNICAL				
7- SOC DUES BAL	0.00	ELECT DATE							
8- CHAP DUES BAL	0.00	HOLD HANDBOOK							
9- CONTRIBUTIONS	0.00	AIR MAIL							
10- EDUCATION		BIRTHDATE	03/13/23						
11- WORK EXPERIENCE		SEX	M	CHAPTER	021 PHILADELPHIA				04/01/56
		ZIP CODE	07060	STATE	NJ NEW JERSEY				

KEY


- 1-Chapter Number and Name
- 2-(Header)
- 3-Member Number and Name
Home Address and Phone
- 4-Business Address and Phone
- 5-Preferred Contact Number
(H-Home/B-Business)
- 6-Facsimile and Telex
- 7-Society Dues Balance - Original Election Date
- 8-Chapter Dues Balance - Hold Handbook/Journal
- 9-Education and Birthdate
- 10-Engineering Registration (#) - Sex - Assigned Chapter
- 11-Work Experience - Zip Code - State (Society use only)
- 12-Current Grade and Grade Date
- 13-Current Status(Active Member, Active Student)
- 14-Principle Activity of Firm - Last update
Functional Activity of Firm
Title
- 15-Broad Committee Interest
Technical Committee Interest
- 16-Society Honors and Awards

CHEQUE DATE	NO. ITEM	CHAPTER ASSESSMENT	FULL PACKAGE REGIST	PARTIAL PACKAGE REGIST	CARD OR COFFEE	INTEREST EARNED	BANK EXPENSES CHARGE	[----- BANK DEBIT	ACCOUNT CREDIT	-----] BALANCE
12-31-88	Interest Earned					15.75			15.75	2,784.90
01-31-89	Interest Earned					16.31			16.31	2,801.21
02-28-89	Interest Earned					14.89			14.89	2,816.10
03-28-89	Canada Trust G.I.C.							2000.00		816.10
03-31-89	Interest Earned					16.27			16.27	832.37
04-17-89	Trade Show Revenue								500.00	1,332.37
04-30-89	Interest Earned					6.78			6.78	1,339.15
05-31-89	Interest Earned					9.10			9.10	1,348.25
06-30-89	Interest Earned					8.86			8.86	1,357.11
07-31-89	Interest Earned					9.22			9.22	1,366.33
08-31-89	Interest Earned					9.28			9.28	1,375.61
09-30-89	Interest Earned					9.04			9.04	1,384.65
10-31-89	Interest Earned					9.40			9.40	1,394.05
11-30-89	Interest Earned					9.17			9.17	1,403.22
12-31-89	Interest Earned					9.54			9.54	1,412.76
01-31-90	Interest Earned					9.60			9.60	1,422.36
02-28-90	Interest Earned					8.96			8.96	1,431.32
03-28-90	G.I.C. Interest					230.00			230.00	1,661.32
03-28-90	Transferred to G.I.C.							1000.00		661.32
03-31-90	Interest Earned					10.07			10.07	671.39

Bank Account \$ 671.39
 G.I.C. certificate 3,000.00
 Total \$ 3,671.39

Donald H.R. Johnson
 Donald H.R. Johnson

- cc: Greg James, President
- Tom Drennan, Vice President
- Darryl Boyce, Secretary
- Oven Glendon, Treasurer

Canada Trust 				
Date	Item	Withdrawal	Deposit	Balance
OCT 31 89	INT		9.40	1,394.05
NOV 30 89	INT		9.17	
DEC 31 89	INT		9.54	1,412.76
JAN 31 90	INT		9.60	
FEB 28 90	INT		8.96	1,431.32
MAR 05 90	CHQ	800.00		
MAR 05 90	COR		800.00	
MAR 28 90	AID		230.00	
MAR 28 90	DM	1,000.00		
MAR 31 90	INT		10.07	671.39



THIS CONFIRMS THE PURCHASE OF
CANADA TRUSTCO MORTGAGE COMPANY
FIXED TERM INVESTMENT CERTIFICATE 00110-2003723

PRINCIPAL SUM \$*****3,000.00	INTEREST RATE 11.50000X	ISSUE DATE MAR 28, 1990	MATURITY DATE MAR 28, 1991	INTEREST PAYMENTS ANNUALLY
----------------------------------	----------------------------	----------------------------	-------------------------------	-------------------------------

REGISTERED OWNER(S)

ASHRAE REGION II CRC 1988

C/O DONALD H R JOHNSON
499 PALMTREE AVE
LONDON ONTARIO
N6H 3P7

SPECIAL TERMS AND CONDITIONS

01. Interest will be paid annually on the 28th day of March commencing March 28, 1991 into Savings account 00110 514767.
02. Each interest payment will be for \$345.00.

SEE REVERSE FOR ADDITIONAL TERMS AND CONDITIONS.

This is an official confirmation of purchase or renewal. An Investment Certificate will be issued to the registered owner(s) upon request.

NOT VALID UNLESS COUNTERSIGNED


M.L. LAHN
Chairman & Chief Executive Officer


Authorized Officer

NOT NEGOTIABLE

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
1791 Tullie Circle, N.E.
Atlanta, Georgia 30329

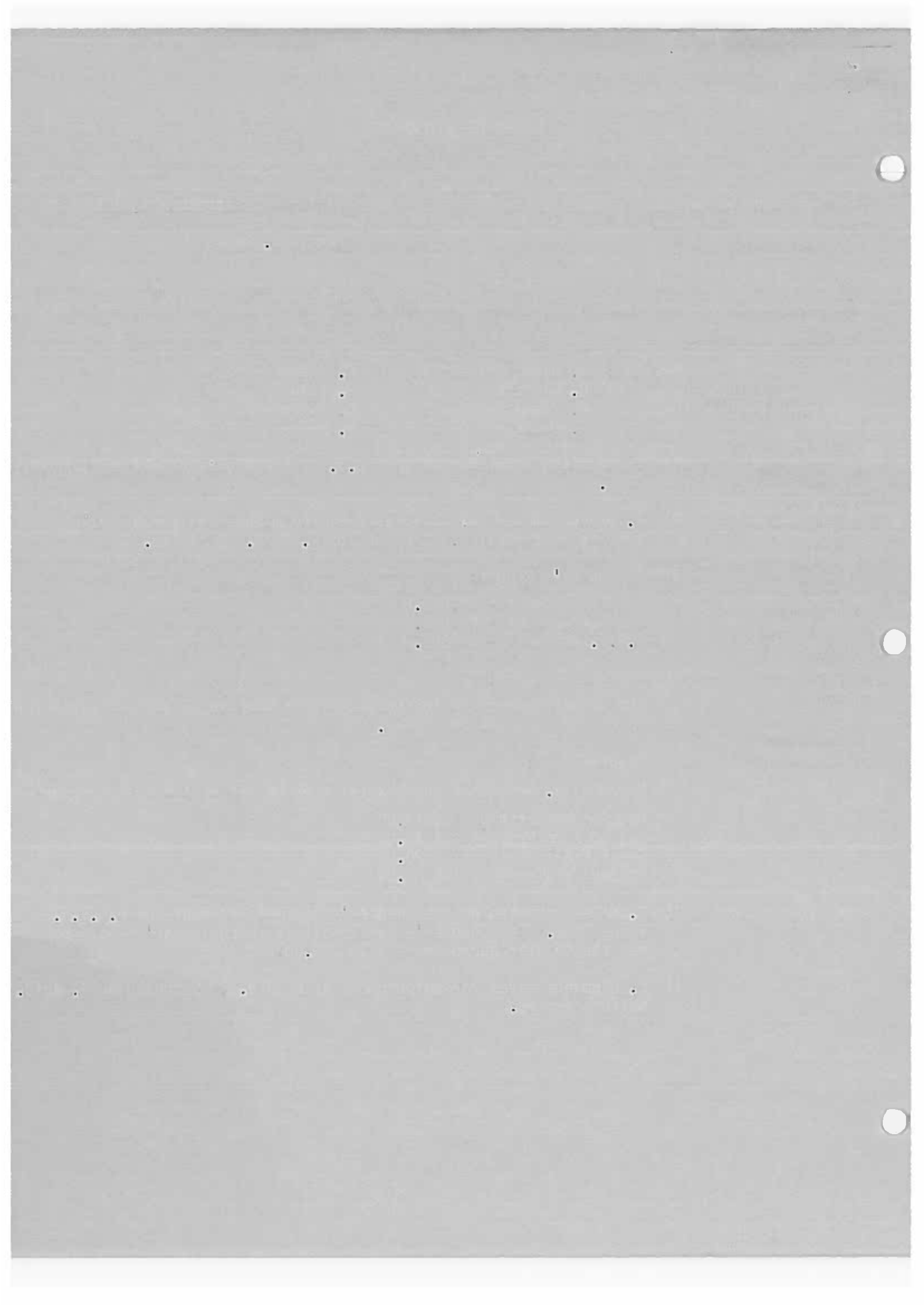
BOARD OF GOVERNORS
MINUTES

CHAPTER: London, Canada MEETING DATE: September 5, 1989

ATTENDANCE: MEMBERS 8; GUESTS _____; COMPILED BY Darryl K. Boyce

DISTRIBUTION: Retain BLUE original for chapter files and mail GREEN copy to your Regional Chairman. Send WHITE copy to Manager, Membership Dept., ASHRAE, Atlanta, together with the YELLOW copy for "Journal" information.


SUGGESTED CHECK LIST OF ITEMS TO BE REPORTED	PRESENT: G. James, President O. Glendon P. Ziebart T. Drennan C. Clemance J. Reid G. Miles D. Boyce
1. PRESIDING OFFICER	
2. CALL TO ORDER (Time & Place)	1) The meeting commenced at 4:45 p.m. at the Highland Golf and Country Club.
3. ROLL CALL	
4. APPROVAL OF MINUTES	2) T. Drennan moved for acceptance of the minutes of the previous meeting as presented. Seconded by J. Reid. Accepted.
5. REPORTS	3) Treasurer's Report: General Account - \$1,671.00 Savings Account - \$3,020.00 C.R.C. Account - \$2,805.00
6. ELECTION Members Officers	
7. OLD BUSINESS	
8. NEW BUSINESS	
9. SPEAKER	
10. DISCUSSIONS	4) Education Report: The student branch at the University of Western Ontario is projected to have 25 members this year.
11. MOTIONS	
12. RESOLUTIONS	
13. OTHER FEATURES	
14. ADJOURNMENT	5) Chapter Dues: Moved by J. Reid that the Chapter dues be set at the following amount: Regular Membership - \$110.00 Out of Town Members - \$ 40.00 Guest Meals - \$ 20.00 Student Meals - \$ 7.00
	6) G. Miles reported on the Chapter's participation at the L.D.C.A. Trade Show. The Chapter's participation in this year's show should net the Chapter approximately \$3,200.00.
	7) C. Clemance moved for adjournment at 6:30 p.m. Seconded by J. Reid. Motion carried.




FEBRUARY 13, 1990

TO: OWEN GLENDON, TREASURER
DARRYL BOYCE, SIGNING AUTHORITY
GREG JAMES, PRESIDENT
DON JOHNSON, SIGNING AUTHORITY

ORIGINAL & COPY
COPY
COPY
COPY

 Revenue Canada Taxation	Revenu Canada Impôt	T5 Supplementary Supplémentaire Rev. 89	STATEMENT OF INVESTMENT INCOME ÉTAT DES REVENUS DE PLACEMENT
Year 1989 Année	(D) Interest from Canadian Sources 127.86 (D) Intérêts de source canadienne	Social Insurance Number N° d'assurance sociale	105349618
<p>The Income Tax Act requires that you provide your Social Insurance Number upon request to any person who prepares an information slip on your behalf. If you do not have a Social Insurance Number, please contact your nearest Canada Employment Centre. La Loi de l'impôt sur le revenu exige que vous fournissiez votre numéro d'assurance sociale sur demande à toute personne qui établit un feuillet de renseignements en votre nom. Si vous n'avez pas de numéro d'assurance sociale, veuillez communiquer avec votre Centre d'emploi du Canada.</p>		<p>RECIPIENT: SURNAME FIRST, AND FULL ADDRESS BÉNÉFICIAIRE: NOM DE FAMILLE D'ABORD, ET ADRESSE COMPLÈTE</p> <p>ASHRAE REGION II CRC 1988 C/O DONALD M R JOHNSON 499 PALMTREEE AVENUE LONDON ONTARIO N6H 3P7</p>	
		<p>NAME AND ADDRESS OF PAYER (Must appear on each slip) NOM ET ADRESSE DU PAYEUR (À inscrire sur chaque feuillet)</p> <p>CANADA TRUSTCO MORTGAGE CO 215 OXFORD STREET WEST LONDON ONTARIO N6H 1S5</p>	
		<p>RE ACCOUNT NO 00110-514767</p>	
<p>For Recipient - Keep this slip for your records SEE INFORMATION ON REVERSE</p>		3	<p>Pour le bénéficiaire - Conserver pour vos dossiers VOIR LES RENSEIGNEMENTS AU VERSO</p>

 Revenue Canada Taxation	Revenu Canada Impôt	T5 Supplementary Supplémentaire Rev. 89	STATEMENT OF INVESTMENT INCOME ÉTAT DES REVENUS DE PLACEMENT
Year 1989 Année	(D) Interest from Canadian Sources 127.86 (D) Intérêts de source canadienne	Social Insurance Number N° d'assurance sociale	105349618
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		<p>NAME AND ADDRESS OF PAYER (Must appear on each slip) NOM ET ADRESSE DU PAYEUR (À inscrire sur chaque feuillet)</p> <p>CANADA TRUSTCO MORTGAGE CO 215 OXFORD STREET WEST LONDON ONTARIO N6H 1S5</p>	
		<p>For Recipient - Attach to your Income Tax Return SEE INFORMATION ON REVERSE</p>	
		2	<p>Pour le bénéficiaire - Annexer à votre déclaration d'impôt sur le revenu VOIR LES RENSEIGNEMENTS AU VERSO</p>



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President

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12 -	10%		
25 -	15%		
50 -	20%		

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1 week

CERTIFICATE CONFIRMATION



THIS CONFIRMS THE PURCHASE OF CANADA TRUSTCO
FIXED TERM INVESTMENT CERTIFICATE NUMBER 110 1107168 00

PRINCIPAL SUM	INTEREST RATE	ISSUE DATE	MATURITY DATE
\$**\$2,000.00	11.500%	MAR 28 1989	MAR 28 1990

INTEREST PAYMENTS	FIRST PAYMENT DATE
ANNUAL	MAR 28 1990

REGISTERED OWNER(S)

ASHRAE REGION II CRC 1988
C/O DONALD M R JOHNSON
499 PALMTREE AVE
LONDON ONTARIO
N6H 3P7

SPECIAL TERMS/CONDITIONS

- INTEREST WILL BE PAID TO ACCOUNT 110-514767.

This is an official confirmation of purchase or renewal. If required, an investment certificate will be issued to the registered owner upon request at the branch of issue. The issuance of a certificate will cancel this confirmation.

[Signature]
Authorized Officer

NOT NEGOTIABLE

08-127 (0288)



Date	Item	Withdrawal	Deposit	Balance
OCT 31 89	INT		9.40	1,394.05
NOV 30 89	INT		9.17	
DEC 31 89	INT		9.54	1,412.76

For ease of identification cheque numbers appear in the item column.
Unnumbered cheques are identified as "Other". An explanation of other
symbols is on the back inside cover.

DARRYL K. BOYCE

DATE	CHEQUE NO. ITEM	CHAPTER ASSESSMENT	FULL PACKAGE REGIST	PARTIAL PACKAGE REGIST	CARD OR COFFEE	INTEREST EARNED	BANK EXPENSES CHARGE	[----- DEBIT	BANK CREDIT	ACCOUNT BALANCE
10-25-88	035	DARRYL BOYCE - VOID					0.00	0.00		4,268.06
10-25-88	036	DARRYL BOYCE					196.05	196.05		4,072.01
10-25-88	037	GREG JAMES					394.58	394.58		3,677.43
10-25-88	038	NORM JOHNSON					362.25	362.25		3,315.18
10-25-88	039	DONALD M.R. JOHNSON					38.78	38.78		3,276.40
10-31-88		SOLD EXTRA PINS TO BERT							20.55	3,296.95
10-31-88		INTEREST EARNED				44.93			44.93	3,341.88
11-02-88	040	GAIL MENZIES					250.00	250.00		3,091.88
11-04-88	041	SWITZER SIGNS					260.06	260.06		2,831.82
11-05-88	042	R.V. ELECTRONICS					90.18	90.18		2,741.64
11-05-88	043	BILL REYNOLDS (ENG AIR)					12.10	12.10		2,729.54
11-22-88	044	DONALD M.R. JOHNSON					77.36	77.36		2,652.18
11-30-88		Interest Earned				16.97			16.97	2,669.15
12-15-89		Deposit							100.00	2,769.15
12-31-88		Interest Earned				15.75			15.75	2,784.90
01-31-89		Interest Earned				16.31			16.31	2,801.21
02-28-89		Interest Earned				14.89			14.89	2,816.10
03-28-89		Canada Trust G.I.C.							2000.00	816.10
03-31-89		Interest Earned				16.27			16.27	832.37
04-17-89		Trade Show Revenue							500.00	1,332.37
04-30-89		Interest Earned				6.78			6.78	1,339.15
05-31-89		Interest Earned				9.10			9.10	1,348.25
06-30-89		Interest Earned				8.86			8.86	1,357.11
07-31-89		Interest Earned				9.22			9.22	1,366.33
08-31-89		Interest Earned				9.28			9.28	1,375.61

TO: D.K. BOYCE

FROM: D.M.R. JOHNSON

I'VE SENT A COMPLETE CRC-88 FINAL REPORT TO OWEN GLENDON.
YOU ALREADY HAVE A COMPLETE REPORT AND NEED ONLY ADD
THESE TWO PAGES.



CERTIFICATE CONFIRMATION

Canada Trust

THIS CONFIRMS THE PURCHASE OF CANADA TRUST CO. FIXED TERM INVESTMENT CERTIFICATE NUMBER 110-514767-00

PRINCIPAL SUM	INTEREST RATE	ISSUE DATE	MATURITY DATE
\$***\$2,000.00	11.500%	MAR 28 1989	MAR 28 1990

INTEREST PAYMENTS	FIRST PAYMENT DATE
ANNUAL	MAR 28 1990

REGISTERED OWNER(S)

ASHRAE REGION II CRC 1988
 C/O DONALD M R JOHNSON
 499 PALMTREE AVE
 LONDON ONTARIO
 N6H 3P7

SPECIAL TERMS/CONDITIONS

1. INTEREST WILL BE PAID TO ACCOUNT 110-514767.

This is an official confirmation of purchase or renewal. If required, an investment certificate will be issued to the registered owner upon request at the branch of issue. The issuance of a certificate will cancel this confirmation.

[Signature]
 Authorized Officer

NOT NEGOTIABLE

Canada Trust

Date	Item	Withdrawal	Deposit	Balance
NOV 08 88	042	90.18		3,671.23
NOV 10 88	036	196.05		
NOV 10 88	043	12.10		
NOV 10 88	009	87.50		
NOV 15 88	040	250.00		
NOV 15 88	041	260.06		2,865.52
NOV 30 88	044	77.36		
NOV 30 88	039	38.78		
NOV 30 88	INT		16.97	
DEC 15 88	DEF		100.00	2,886.35
JAN 15 89	INT		15.75	2,882.10
JAN 31 89	INT	97.20		
FEB 28 89	INT			
MAR 07 89	045	22.39		
MAR 07 89	CCR	(\$19.50 USD AT 1.2105)		
MAR 07 89	CCR	(\$19.50 USD AT 1.2105)		
MAR 28 89	INT	2,000.00		816.10
MAR 31 89	INT		16.27	
APR 17 89	DEF		500.00	1,332.37
APR 30 89	INT		6.78	
MAY 31 89	INT		9.10	1,348.25
JUN 30 89	INT		8.86	
JUL 31 89	INT		9.22	
AUG 31 89	INT		9.28	1,375.61

For ease of identification cheque numbers appear in the 'Item' column. Unnumbered cheques are identified as 'CCR'. An explanation of other symbols is on the back inside cover.

June 30, 1990 STATISTICS

REGION 01

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
001 BOSTON	832	68	72	9	1,001
002 WESTERN MASSACHUSETTS	1				1
003 RHODE ISLAND	143	9	4		156
004 CONNECTICUT	595	40	17	9	661
006 LONG ISLAND	316	24	23	17	380
007 NORTH JERSEY	756	58	162	87	1,263
008 NEW YORK	859	77	146	58	1,140
009 NORTHEASTERN NEW YORK	231	16	23	15	305
010 CENTRAL NEW YORK	369	13	25	19	426
011 ROCHESTER	428	23	37	1	489
012 NIAGARA FRONTIER	233	16	1	1	251
111 CHAMPLAIN VALLEY	101	2	3		106
118 MAINE	171	16	40	19	246
129 TWIN TIERS	136	12	9	3	160
146 BI-STATE	232	12	14	2	260
152 GRANITE STATE	170	16	73	5	264
601 UNASSIGNED REGION 1	10	4		3	17
901 APO/FPO NEW YORK	28	1		1	30
REGION TOTALS	5,851	407	649	249	7,156

REGION 02

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
013 QUEBEC	155	10	17	3	185
014 MONTREAL	538	61	168	154	819
015 OTTAWA VALLEY	358	41	6	6	411
016 TORONTO	794	71	121	44	1,030
037 HAMILTON	202	26	28	22	278
100 HALIFAX	182	13	3		198
116 LONDON	102	87	4	14	128
117 NEW BRUNSWICK	110	8	3		121
140 SAGUENAY-LAC ST JEAN	36	5	37	21	99
141 WINDSOR	59	5	16	9	89
153 MISSISSAUGA	139	11	2		152
REGION TOTALS	2,675	266	398	391	3,509

CHORLEY & BISSET LTD.	
LONDON	ONTARIO
FILE NO.	
REC'D JUL 20 1990	
<i>[Signature]</i>	

REGION 03

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
021 PHILADELPHIA	867 864	44 12	82	48	1,041
022 CENTRAL PENNSYLVANIA	294 295	44 13	24	29	361
023 JOHNSTOWN	79	1	13	4	97
024 PITTSBURGH	320	34	67	22	443
025 BALTIMORE	899 740	89 34	34	3	811
026 NATIONAL CAPITAL	937	82	71	10	1,100
027 HAMPTON ROADS	191	23	17	13	244
028 RICHMOND	279	19	17	7	318
098 LEHIGH VALLEY	139	16	5	3	163
112 DELAWARE	215	17	5		237
125 ROANOKE	206	15	6	1	228
134 ANTHRACITE	110	14	26	27	177
REGION TOTALS	4,978 4,380	510 306	367	167	5,220

REGION 04

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
029 NORTH PIEDMONT	191	7	55	6	259
030 SOUTHERN PIEDMONT	393	30	28	13	464
031 SOUTH CAROLINA	120	11	20	3	154
032 ATLANTA	772	63	53	35	925
033 SAVANNAH	45	2	1	1	49
097 GREENVILLE	239	17	7		263
106 TRIANGLE	296	14	22	4	336
113 CHARLESTON	83	10	3	1	97
604 UNASSIGNED REGION 4		4	8	2	14
REGION TOTALS	2,139	158	199	65	2,561

REGION 05

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
038 CLEVELAND	348	2420	6	8	383
039 COLUMBUS	370	28	57	20	475
040 CINCINNATI	378	2222	13	3	417
041 DAYTON	198	23	23	3	247
042 TOLEDO	158	14	8	2	182
043 CENTRAL INDIANA	343	25	72	9	449
044 EVANSVILLE	113	9	29	11	162
045 DETROIT	482	36	20	6	544
046 CENTRAL MICHIGAN	149	14	20		183
047 WESTERN MICHIGAN	298	13	43	19	373
090 AKRON/CANTON	134	12	13	14	193
103 NORTHERN INDIANA	88	3	3	1	97
120 FORT WAYNE	87	8	9	3	107
121 EASTERN MICHIGAN	81	5	8	1	95
REGION TOTALS	5787	3,249	324	100	3,907

REGION 06

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
048 WISCONSIN	406	29	50	4	489
049 ILLINOIS	987	60	88	56	1,191
050 CENTRAL ILLINOIS	124	7	14	2	147
051 IOWA	212	11	41	6	270
052 MINNESOTA	761	38	75	25	899
054 ST LOUIS	612	62	26	16	716
087 CHICAGO	119	3			122
095 MADISON	167	10	13	2	192
107 NORTHEAST WISCONSIN	142	6	6	1	155
115 LA CROSSE AREA	100	3	11	10	124
119 ROCKFORD	87	82	27	14	131
123 MISSISSIPPI VALLEY	133	9	89	21	174
137 EAST CENTRAL ILLINOIS	76	5	14	4	99
606 UNASSIGNED REGION 6		1			1
REGION TOTALS	3748	3,149	253	141	4,710

REGION 07

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
035 LOUISVILLE	193	5	53	13	244
036 MEMPHIS	206	10	7	5	228
037 BIRMINGHAM	252	16	50	20	338
038 MOBILE	94	8	13	6	121
039 NEW ORLEANS	173	13	21	7	214
040 BATON ROUGE	80	14	1		95
041 MISSISSIPPI	116	12	7	6	141
088 NASHVILLE	256	17	4	5	282
099 EAST TENNESSEE	223	24	15	2	264
114 TENNESSEE VALLEY	73	8	9	4	94
124 MONTGOMERY	78	7	23	8	116
128 BLUEGRASS	81	13	3	1	98
130 NORTHWEST FLORIDA	66	3	2	3	74
133 NORTH ALABAMA	88	10	29	12	139
151 TOMBIGBEE	28	7		2	37
156 MOUNTAINEER	77	6	1		84
607 UNASSIGNED REGION 7	1	6			7
REGION TOTALS	2,085	179	218	94	2,576

REGION 08 CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
042 ARKANSAS	183	13	13	3	214
063 SHREVEPORT	99	12			111
064 HOUSTON	330	39	43	22	634
065 ALAMO	282	24	23	1	261
066 AUSTIN	143	14	18	7	182
067 DALLAS	343	30	39	9	641
068 CENTRAL OKLAHOMA	274	43	15	4	437
069 NORTHEASTERN OKLAHOMA	189	15	15	6	225
070 FORT WORTH	263	37	8	3	315
071 WEST TEXAS	92	2	15	3	112
091 EAST TEXAS	57	4	27	3	91
134 SOUTH TEXAS	44	5	17	1	67
608 UNASSIGNED REGION 8	3	1			4
REGION TOTALS	2,756	262	214	64	3,274

REGION 09 CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
053 KANSAS CITY	441	37	79	33	621
072 EL PASO	80	13	7	6	106
073 KUCKY MOUNTAIN	504	42	63	37	646
074 UTAH	202	16	4	5	227
075 NEBRASKA	345	3	31	6	385
076 WICHITA	94	11	8	4	117
077 NEW MEXICO	216	19	10		245
093 SOUTH DAKOTA	130	21	20	12	183
127 BLACK HILLS	32	9	10	2	53
131 BIG SKY	101	9	11	7	128
135 IDAHO	91	2	1		94
118 PINES PEAK	67	4	2	2	75
150 OZARKS	72	4	20	8	104
609 UNASSIGNED REGION 9		3			3
REGION TOTALS	2,406	194	266	122	2,987

REGION 10 CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
081 SACRAMENTO VALLEY	246	32	13	3	294
082 GILDED GATE	758	64	71	10	903
083 SAN JOAQUIN	97	12	2		111
084 SOUTHERN CALIFORNIA	891	76	69	43	1,079
085 SAN DIEGO	316	32	20	12	380
086 CENTRAL ARIZONA	272	21	7		300
087 TUCSON	109	20	10		139
092 SOUTHERN NEVADA	94	11			105
101 SAN JOSE	284	16	17	4	326
105 ORANGE EMPIRE	343	28	3	2	376
108 HAWAII	282	16	16	6	320
126 NORTHERN NEVADA	73	13	6	6	98
144 SIERRA DELTA	57	2	2		61
135 TRI COUNTY	91	3		1	95
610 UNASSIGNED REGION 10		4			4
910 APO/FPO SAN FRANCISCO	15	1			16
REGION TOTALS	3,928	351	232	92	4,603

REGION 11

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
017 MANITOBA	172173	2819	3		195
018 SOUTHERN ALBERTA	301	28	15	13	357
019 NORTHERN ALBERTA	252	11	77	21	361
020 BRITISH COLUMBIA	388351	2928	11	3	393
070 INLAND EMPIRE	78	2	2		82
079 PUGET SOUND	669630	8150	64	23	767
080 OREGON	495	28	50	20	598
096 REGINA	5852	43	2	2	59
102 SASKATOON	82	8	105	53	248
122 ALASKA	126	10	3	2	141
136 MID-COLUMBIA	63	5	1	1	70
143 VANCOUVER ISLAND	84	5			89
611 UNASSIGNED REGION 11	1	11			12
911 APO/FPO SEATTLE	3	1			4
REGION TOTALS	2766241	219201	333	143	3376

REGION 12

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
005 SOUTHWEST GEORGIA	53	10	2	2	67
034 JACKSONVILLE	279	21	43	16	359
035 FLORIDA WEST COAST	383	44	46	16	489
036 MIAMI	223	17	20	3	263
094 CENTRAL FLORIDA	254	18	12	4	288
104 GOLD COAST	165	11	20		196
109 SPALECOAST	81	11	6	1	99
110 PUERTO RICO	130	22	6	21	179
132 GULFSTREAM	161	20	4	6	191
139 SOUTHWEST FLORIDA	92	4	1	1	98
912 APO/FPO MIAMI	3	1			4
REGION TOTALS	1824	179	160	70	2233

REGION 13

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
142 SINGAPORE ASSN OF ASHRAE MEMBERS (SAMM)	229	22	1		292
143 HONG KONG	417	39	8	5	469
144 MALAYSIA CHAPTER	87	17	2		106
137 TAIWAN	38	2			40
138 INDIA	55	3			58
REGION TOTALS	826	83	11	5	925

REGION 00

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
277 U S POSSESSIONS	12		1		13
888 FOREIGN	47199	458453	429181	2423	4.771
REGION TOTALS	47211	458453	429182	2423	4.784

REGION 904

CHAPTER	MEMBERS		STUDENTS		CHAPTER TOTAL
	PAID	UNPAID	PAID	UNPAID	
1	1				1
13	13				13
REGION TOTALS	14	0	0	0	14

***** RECAP *****

REGION	MEMBERS		STUDENTS		REGION TOTAL
	PAID	UNPAID	PAID	UNPAID	
00	4,201	438	121	24	4,784
01	3,851	407	649	249	7,156
02	2,675	259	390	185	3,509
03	4,376	310	367	167	5,220
04	2,139	158	199	65	2,561
05	3,247	236	324	100	3,907
06	3,948	247	373	142	4,710
07	2,083	179	218	94	2,576
08	2,754	262	214	64	3,294
09	2,403	194	266	122	2,987
10	3,928	351	232	92	4,603
11	2,686	214	333	143	3,376
12	1,824	179	160	70	2,233
13	826	83	11	5	925
	14	0	0	0	14
REPORT TOTALS	42,959	3,517	3,857	1,522	51,855

D R A F T

PROPOSED HEATING VENTILATING AND AIR CONDITIONING CENTRE IN THE

Department of Mechanical Engineering

AT

The University of Western Ontario

PROPOSAL

Experts in the field of Heating Ventilating and Air Conditioning (HVAC) usually acquire their skills in special courses outside the University context or by years of practical experience. The objective of the proposal is to establish a Centre of Education and Research in HVAC at The University of Western Ontario which will:

- 1) provide a resource centre to consultants and the industry in HVAC
- 2) Train young engineers to levels of proficiency to minimize assimilation time in the HVAC industry and
- 3) develop a strong research thrust coupled with the training of experts in HVAC related studies to the M.E.Sc. and Ph.D. levels

These objectives will be fulfilled by:

- 1) *The Creation of a Mechanical Engineering Fourth Year Option in HVAC*

The option will require the student to take the mandatory general courses. However, the electives must be selected from courses related to the area of HVAC. A fourth year project will be required in the HVAC field of study.

- 2) *Creation of a Research Laboratory With Emphasis on HVAC Related Problems*

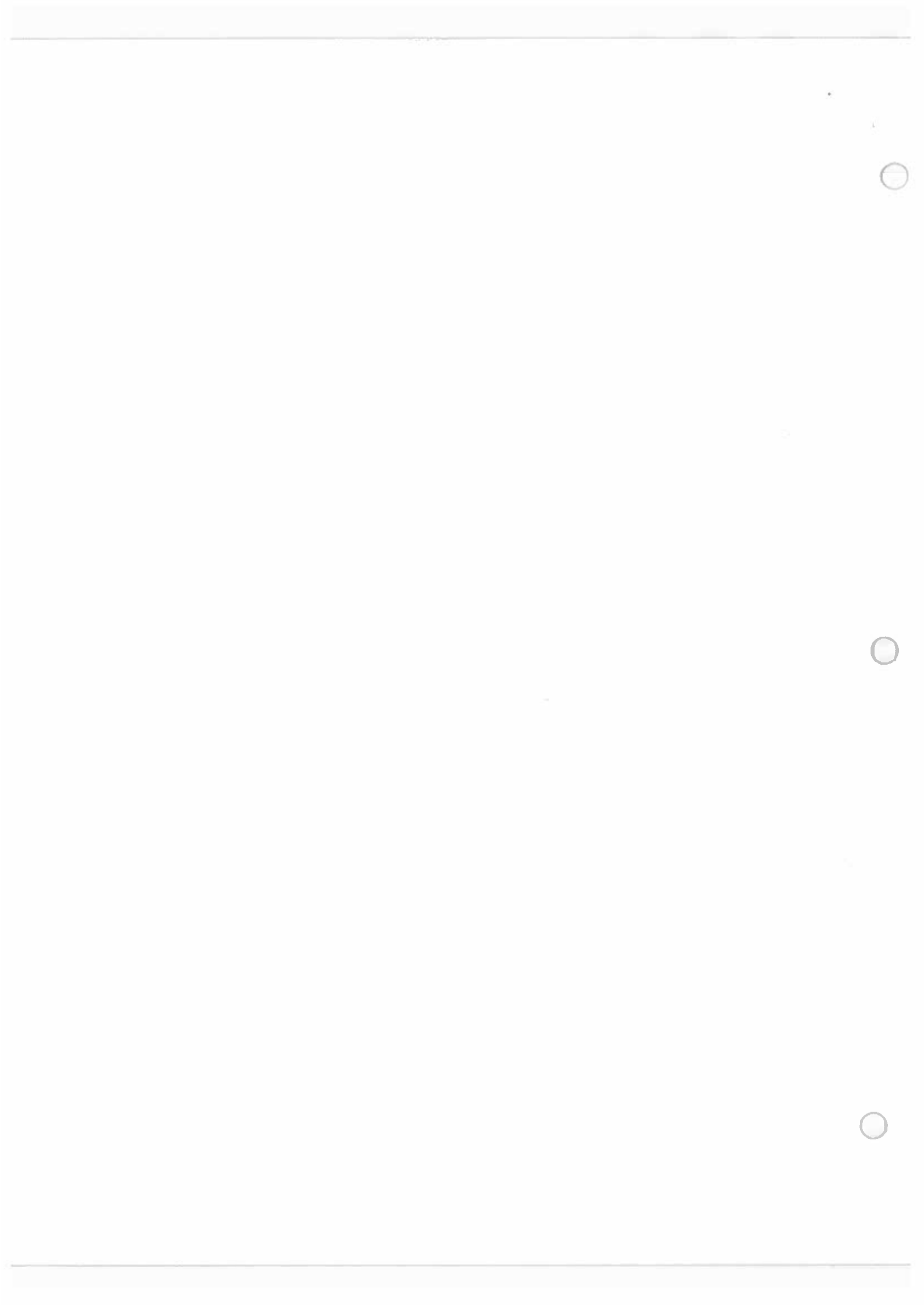
This will require dedication of additional laboratory space, the acquiring of research equipment and more importantly additional faculty to direct research and instruction at the graduate level.

- 3) *Development of M.Eng. Module Courses to Serve the Industry*

An innovative M.Eng. Program is being initiated at Western. The purpose of the program is to make available to Engineers, high quality courses which will be taken in a four day period (Saturday to Tuesday). These courses will be taught by National and International experts.

BENEFITS

Several benefits are likely to come out of such a centre for Industry, students and the University.



BENEFITS TO INDUSTRY

- i) access to the facilities of a research centre in HVAC at Western
- ii) highly trained graduate engineers
- iii) a resource centre for consultants in advanced aspects of HVAC
- iv) involvement in Western's Year IV projects and the E.S. 240 Project
- v) involvement in Western's Industrial Internship Program
- vi) involvement in the M.Eng. Program

BENEFITS TO STUDENTS

- 1) an opportunity to specialize before graduation
- 2) opportunity to meaningfully interact by Year III with the HVAC engineering community
- 3) provide employment opportunities in HVAC

BENEFITS TO THE UNIVERSITY

- 1) attraction of funding for laboratories, faculty, and research
- 2) attraction of high calibre students in the undergraduate/graduate programs

WHY WESTERN

Mechanical Engineering at Western has changed dramatically in the past decade. The staff and faculty are new and are anxious to interact where possible with industry. Our philosophy is both the education of young engineers and the support of industry in research and development at Western. We already have, in place, some research facilities in HVAC and faculty in the Mechanical Engineering Department with considerable interest in HVAC. In addition, a Construction Centre of Excellence is soon to be started in our Civil Engineering Department.

A sampling of past and present projects are as follows:

4th Year Thesis Topics

- The Effect of Oversizing on Residential Gas Furnace Efficiency
- Feasibility Study for Conversion to Direct Digital Control
- An Energy Retrofit Study for Riverside United Church
- Chilled Water Storage Systems
- Design and Construction of a Heat Exchanger for a Domestic Clothes Dryer
- Recovery of Chimney Losses for a Residential Furnace
- Granular Insulation Injection System for Wall Cavity Insulation
- Energy Conservation Through Urban Planning and Design

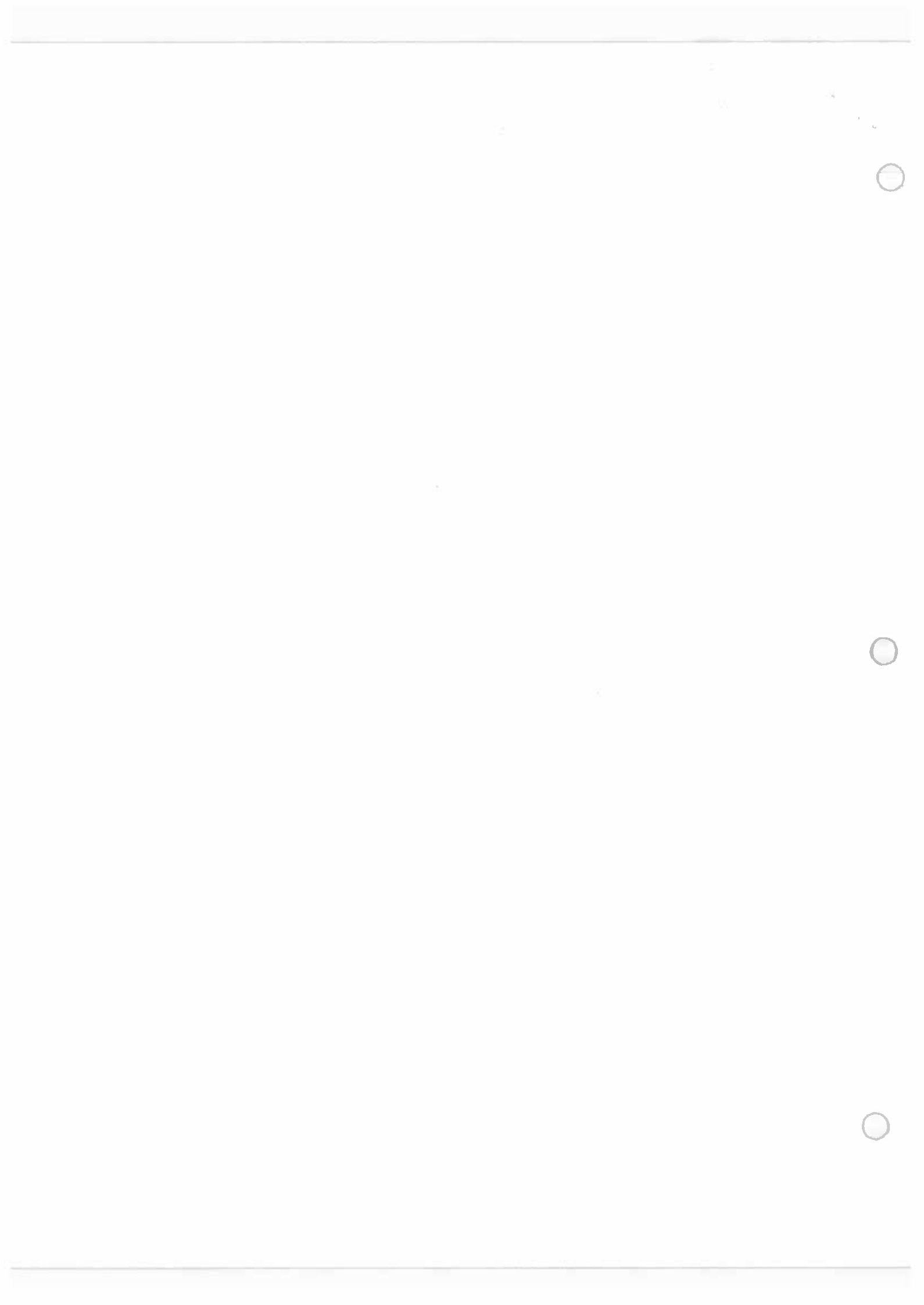
Proposed HVAC Centre in the Department of Mechanical Engineering
at
The University of Western Ontario

D R A F T

Page 4

EXPECTED SUPPORT

1. The University of Western Ontario is expected to support this proposal by:
 - i) allocation of laboratory space for undergraduate and graduate facilities
 - ii) provision of fringe benefits for part-time lectures
 - iii) support staff
2. Government Research Granting Agencies are expected to support:
 - i) faculty Operating Grant research proposals
 - ii) Industrial Research Assistance program proposals and
 - iii) Strategic Grant proposals
3. Industry will be expected to:
 - i) assist in the salary support of special lectures
 - ii) contribute to laboratory equipment for instruction and research
 - iii) support research at the graduate level directly or in cooperation with governmental research funding agencies



-
- Location of Freezing Isotherms Beneath Cold Surfaces
 - The Design and Analysis of an Exterior Retractable Insulated Wind Shade
 - The Economic Feasibility of Solar Power for Domestic Hot Water Heating in London
 - Combustion Control and Air Balancing Study, Cuddy Plant C, London, Ontario

M.E.Sc. Thesis Topics

- Interferometric Study of Coupled Convective Systems (Inflatable Structures)
- Control of Stratified Liquid Plumes (Atrium Simulation)*
- Cross Contamination and Intermittent Testing of Air to Air Heat Exchangers
- An Air Particle Heating Exchanger for the Recovery of Waste Heat
- An Attic Waste Heat Recovery System

*This problem was stimulated by a full scale building envelope problem associated with a unique building design in Hong Kong.

Ph.D. Thesis Topics

- Natural Convective Flow in Inclined Square Ducts
- Heat Transfer from Inflatable Structures
- Coupled & Non-coupled Convective Heat Transfer from Rectangular Cavities (Solar Collectors)

Facilities

Two laboratories are highly equipped for heat transfer studies. Major equipment includes:

- air to air heat exchanger rig
- 2 large Beam Interferometers
- Laser Doppler Anemometers and Ancillary Equipment

Faculty interested in HVAC instruction and research include:

Dr. R. ELassar, Adjunct Professor

- instructor in HVAC II and
- fourth year project director

Dr. E.S. Nowak, Professor

- instructor in Heat Transfer, Energy Conversion, Fluid Machinery and Thermodynamics
- research interests include Thermodynamics and Heat Transfer, and Energy Conservation in buildings

Professor J.E.K. Foreman, Professor Emeritus

- expert in Noise Abatement

Dr. J.D. Tarasuk, Professor

- instructor in HVAC I, Thermodynamics and Heat Transfer
- research Heat Transfer, Heat Exchanger, and New Energy Efficient Refrigeration Systems

CHAPTER MEETING MINUTES

***This form should be submitted as a cover sheet for your chapter minutes.

CHAPTER NAME: _____

MEETING DATE: _____

ATTENDANCE: MEMBERS _____ GUESTS _____

MEMBERSHIP PROMOTION NIGHT? YES ___ NO ___

JOINT MEETING? YES ___ NO ___

TECHNICAL SPEAKER/PROGRAM: YES ___ NO ___

INDICATE TOPIC: _____

NOTE: Points will be given for meetings offering TECHNICAL ENRICHMENT only. No social functions will count.



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

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M e m o r a n d u m

CHORLEY & BISSET LTD.	
LONDON	CHITAGO
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RECEIVED JAN 21 1991	
1089	

TO: Chapter Newsletter Editors
FROM: Robin Campbell *RC* Education Coordinator
RE: ASHRAE Spring 1991 Professional Development Seminars in your region
DATE: January 14, 1991

ASHRAE is pleased to announce its 1991 Spring series of Professional Development Seminars to meet members' continuing education needs. We have prepared a newsletter ad for the seminar which will be held in your region, and hope that you will publish it in your newsletter as early as possible.

Members who attend Professional Development Seminars from your chapter will earn PAOE points for their chapter as well as increase their professional knowledge and expertise.

Members who register for seminars three weeks before the course is held will be able to register for the special rate of \$340.

If you need more information, please do not hesitate to contact me.

enclosure

CHEQUE DATE	NO. ITEM	CHAPTER ASSESSMENT	FULL PACKAGE REGIST	PARTIAL PACKAGE REGIST	CARD OR COFFEE	INTEREST EARNED	BANK EXPENSES CHARGE	[----- BANK DEBIT	BANK CREDIT	ACCOUNT BALANCE
01-31-88	Interest Earned					15.75			15.75	2,784.90
01-31-89	Interest Earned					16.31			16.31	2,801.21
02-28-89	Interest Earned					14.89			14.89	2,816.10
03-28-89	Canada Trust G.I.C.							2000.00		816.10
03-31-89	Interest Earned					16.27			16.27	832.37
04-17-89	Trade Show Revenue								500.00	1,332.37
04-30-89	Interest Earned					6.78			6.78	1,339.15
05-31-89	Interest Earned					9.10			9.10	1,348.25
06-30-89	Interest Earned					8.86			8.86	1,357.11
07-31-89	Interest Earned					9.22			9.22	1,366.33
08-31-89	Interest Earned					9.28			9.28	1,375.61
09-30-89	Interest Earned					9.04			9.04	1,384.65
10-31-89	Interest Earned					9.40			9.40	1,394.05
11-30-89	Interest Earned					9.17			9.17	1,403.22
12-31-89	Interest Earned					9.54			9.54	1,412.76
01-31-90	Interest Earned					9.60			9.60	1,422.36
02-28-90	Interest Earned					8.96			8.96	1,431.32
03-28-90	G.I.C. Interest					230.00			230.00	1,661.32
03-28-90	Transferred to G.I.C.							1000.00		661.32
03-31-90	Interest Earned					10.07			10.07	671.39
04-30-90	Interest Earned					4.88			4.88	676.27
05-31-90	Interest Earned					5.31			5.31	681.58
06-30-90	Interest Earned					5.18			5.18	686.76
07-31-90	Interest Earned					5.39			5.39	692.15
08-31-90	Interest Earned					5.30			5.30	697.45
09-31-90	Interest Earned					4.94			4.94	702.39
10-31-90	Interest Earned					4.92			4.92	707.31
11-30-90	Interest Earned					4.74			4.74	712.05
12-31-90	Interest Earned					4.58			4.58	716.63

TO: T. DRENNEN,
D. BOYCE
O. GLENDON
P. ZEBART

FROM: D.M.R. JOHNSON *[Signature]*

DATE	DESCRIPTION	AMOUNT	BALANCE
NOV 30 89	INT	9.40	1,394.05
DEC 31 89	INT	9.17	1,412.76
JAN 31 90	INT	9.60	1,431.32
FEB 28 90	INT	8.96	
MAR 05 90	CHQ		
MAR 05 90	COR	800.00	
MAR 28 90	AID		
MAR 28 90	DM	1,000.00	
MAR 31 90	INT	10.07	671.39
APR 30 90	INT	4.88	
MAY 31 90	INT	5.31	681.58
JUN 30 90	INT	5.18	
JUL 31 90	INT	5.39	
AUG 31 90	INT	5.30	697.45
SEP 30 90	INT	4.94	702.39
OCT 31 90	INT	4.92	
NOV 30 90	INT	4.74	
DEC 31 90	INT	4.58	716.63

Canada Trust





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ONTARIO	
REC'D NOV - 1 1990	
10RG	

TO: Chapter Membership Promotion Chairmen

FROM: Debra Canady-Foster (13)

DATE: October 3, 1990

SUBJECT: Revised Membership Application Brochure

Enclosed is an initial supply of the revised membership application brochure. As before, the application form is a tear-out that is included in the brochure.

The brochure contains updated information on the current "Application Processing Fee". Effective July 1990, the fee was increased to \$75.00. It will cover all member services through June 30 of the fiscal year of election. This information is highlighted throughout the brochure. Members elected between July 1, 1990 and June 1, 1991 will receive the 1991 Systems & Applications Handbook.

Please let me know if additional supplies are needed. We will be happy to send them.

Enclosure: 25 Membership Brochures

cc: Membership Promotion Committee
Chapter Secretaries

**Chorley
& Bisset Ltd.**

ASHRAE ATTENDANCE

SHEET.....

FILE.....

MADE.....

CHK'D.....

DATE JAN 7/9

DATE	MEMBER	GUESTS	TOTAL
SEPT 24/90	24	6	30
OCT 29/90	28	7 6	41
Nov	18	22	40

1990/91 Presidential Award of Excellence
Period Ending October 31, 1990

ORG

Chapter	Area Assg Mem	New Mem	Del	Membership Promotion				D	Mem Points	A	Meeting Attendance				Refn Points	RP Points Bonus	CRC	EA	ETA	Total Points	
				Adv	A	B	C				Bonus	A	B	C							D
BOSTON	852	15	204	3	0	0	0	0	183	0	0	0	0	0	0	0	0	0	0	833	
RHODE ISLAND	143	2	30	0	0	0	0	0	141	0	0	0	0	0	0	0	0	0	0	654	
CONNECTICUT	595	12	132	0	0	0	0	0	180	0	0	0	0	0	0	0	0	0	0	907	
LONG ISLAND	316	6	79	0	0	0	0	0	167	100	0	0	0	0	0	0	0	0	0	1,148	
NORTH JERSEY	956	19	221	1	0	0	0	0	183	50	25	0	0	0	0	0	0	0	0	1,480	
NEW YORK	859	16	199	2	0	0	0	0	183	0	0	0	0	0	0	0	0	0	0	838	
NORTHEASTERN NEW YORK	251	7	70	2	0	0	0	0	275	0	0	0	0	0	0	0	0	0	0	811	
CENTRAL NEW YORK	369	12	86	0	0	0	0	0	260	0	0	0	0	0	0	0	0	0	0	1,036	
ROCHESTER	428	8	105	1	0	0	0	0	181	50	0	0	0	0	0	0	0	0	0	1,717	
NIAGARA FRONTIER	233	7	51	0	0	0	0	0	246	0	0	0	0	0	0	0	0	0	0	712	
CHAMPLAIN VALLEY	101	2	26	0	0	0	0	0	171	50	0	0	0	0	0	0	0	0	0	1,352	
MAINE	171	12	41	1	0	0	0	0	549	0	0	0	0	0	0	0	0	0	0	794	
TWIN TIERS	136	3	32	0	0	0	0	0	190	0	0	0	0	0	0	0	0	0	0	1,050	
BI-STATE	232	4	58	0	0	0	0	0	155	0	0	0	0	0	0	0	0	0	0	497	
GRANITE STATE	170	1	39	1	0	0	0	0	122	50	0	0	0	0	0	0	0	0	0	1,243	
*** Region 01 Totals:	5,812	126	1,373	11	0	0	0	0	3,182	300	25	0	0	2,323	250	708	0	8,460	0	150	15,073
QUEBEC	155	1	32	3	0	0	0	0	220	0	0	0	0	0	0	0	0	0	0	0	977
MONTREAL	538	20	122	0	0	0	0	0	292	0	0	0	0	0	0	0	0	0	0	0	1,142
OTTAWA VALLEY	358	8	77	1	0	0	0	0	214	0	0	0	0	0	0	0	0	0	0	0	838
TORONTO	794	25	144	0	0	0	0	0	265	0	0	0	0	0	0	0	0	0	0	0	745
HAMILTON	202	6	41	0	0	0	0	0	247	50	0	0	0	0	0	0	0	0	0	0	1,258
HALIFAX	182	3	46	1	0	0	0	0	186	50	0	0	0	0	0	0	0	0	0	0	937
LONDON	102	1	27	2	0	0	0	0	234	0	0	0	0	0	0	0	0	0	0	0	458
NEW BRUNSWICK	110	5	26	2	0	0	0	0	467	0	0	0	0	0	0	0	0	0	0	0	1,244
SAGUENAY-LAC ST JEAN	36	0	10	0	0	0	0	0	360	0	0	0	0	0	0	0	0	0	0	0	877
WINDSOR	58	2	13	0	0	0	0	0	810	0	0	0	0	0	0	0	0	0	0	0	1,095
MISSISSAUGA	139	2	21	0	0	0	0	0	511	0	0	0	0	0	0	0	0	0	0	0	525
*** Region 02 Totals:	2,674	73	559	9	0	0	0	0	3,806	100	0	0	0	769	0	666	0	4,855	0	0	10,096
PHILADELPHIA	867	14	172	4	0	0	0	0	189	0	0	0	0	0	0	0	0	0	0	0	584
CENTRAL PENNSYLVANIA	294	9	45	0	0	0	0	0	269	0	0	0	0	0	0	0	0	0	0	0	327
JOHNSTOWN	79	1	19	0	0	0	0	0	126	0	0	0	0	0	0	0	0	0	0	0	217
PITTSBURGH	320	5	59	3	0	0	0	0	221	0	0	0	0	0	0	0	0	0	0	0	496
BALTIMORE	739	7	130	2	0	0	0	0	138	0	0	0	0	0	0	0	0	0	0	0	518
NATIONAL CAPITAL	937	21	221	6	0	0	0	0	234	50	0	0	0	0	0	0	0	0	0	0	856
HAMPTON ROADS	191	3	52	1	0	0	0	0	176	0	0	0	0	0	0	0	0	0	0	0	259
RICHMOND	279	3	53	0	0	0	0	0	124	0	0	0	0	0	0	0	0	0	0	0	489
LEHIGH VALLEY	139	2	25	0	0	0	0	0	152	0	0	0	0	0	0	0	0	0	0	0	441
DELAWARE	215	2	54	1	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0	257
ROANOKE	206	7	36	1	0	0	0	0	316	100	0	0	0	499	0	0	0	0	0	0	839
ANTHRACITE	110	2	18	0	0	0	0	0	182	0	0	0	0	0	0	0	0	0	0	0	360
*** Region 03 Totals:	4,376	76	884	18	0	0	0	0	2,261	150	0	0	0	885	600	798	0	525	0	575	5,644

1990/91 Presidential Award of Excellence
 Period Ending October 31, 1990

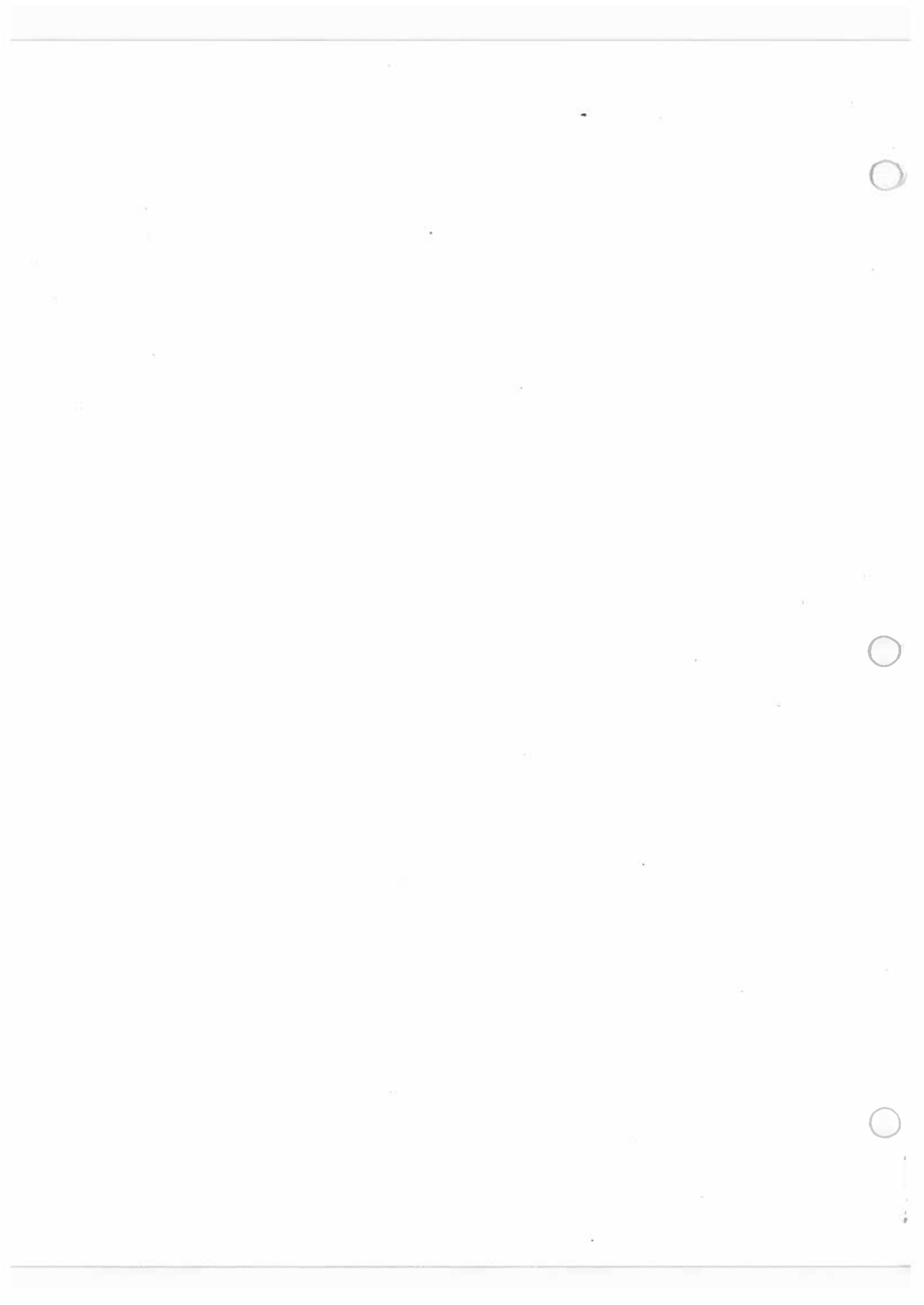
Chapter	Area Assg Mem	New Mem	Del	Adv	Membership Promotion Bonus			D	Mem Points	Meeting Attendance Bonus			D	Mtg Points	Refn Points	RP Points	RP Bonus	CRC	EA	ETA	Total Points
					A	B	C			A	B	C									
NORTH PIEDMONT	191	3	32	2	0	0	0	234	100	0	0	0	462	0	174	0	0	0	75	0	945
SOUTHERN PIEDMONT	393	1	90	0	0	50	0	111	100	0	0	0	415	0	50	0	0	0	175	0	751
SOUTH CAROLINA	120	5	25	0	0	0	0	326	0	0	0	0	0	0	25	0	0	0	0	0	351
ATLANTA	871	18	183	4	0	0	0	216	0	0	0	0	0	0	62	0	0	0	175	0	453
GREENVILLE	239	5	65	0	0	0	0	176	50	0	0	0	312	0	56	0	0	0	50	0	594
TRIANGLE	296	7	68	0	0	50	0	251	100	25	0	0	579	0	65	0	0	250	100	1,245	
CHARLESTON	83	3	15	1	0	0	0	377	50	0	0	0	443	0	121	0	0	0	0	0	941
*** Region 04 Totals:	2,193	42	478	7	0	100	0	1,690	400	25	0	0	2,211	0	552	0	0	0	725	100	5,279
CLEVELAND	348	5	58	16	0	50	0	512	50	0	0	0	480	0	21	0	0	0	184	335	1,532
COLUMBUS	370	14	67	0	0	0	0	307	100	0	0	0	481	0	39	0	0	0	175	110	1,112
CINCINNATI	377	5	65	0	0	0	0	146	0	0	0	0	0	0	12	0	0	0	0	220	378
DAYTON	198	4	42	0	0	0	0	182	0	0	0	0	0	0	10	0	0	0	0	0	192
TOLEDO	158	1	31	2	0	0	0	178	0	0	0	0	0	0	22	0	0	0	0	0	200
CENTRAL INDIANA	343	10	52	0	0	0	0	260	0	0	0	0	0	0	47	0	0	0	0	110	417
EVANSVILLE	113	1	20	0	0	0	0	115	0	0	0	0	0	0	33	0	0	0	165	0	314
DETROIT	482	15	96	1	0	50	0	321	50	0	0	0	538	0	53	0	0	0	0	110	1,023
CENTRAL MICHIGAN	149	2	24	0	0	0	0	152	0	0	0	0	0	0	31	0	0	0	0	100	283
WESTERN MICHIGAN	298	3	44	0	0	0	0	135	50	0	0	0	519	0	32	0	0	0	0	125	811
AKRON/CANTON	154	3	22	1	0	0	0	243	50	25	0	0	304	0	34	0	0	0	0	0	581
NORTHERN INDIANA	88	1	13	2	0	0	0	295	0	0	0	0	0	0	93	0	0	0	0	0	388
FORT WAYNE	87	2	20	0	0	0	0	197	0	0	0	0	0	0	36	0	0	0	0	265	497
EASTERN MICHIGAN	81	1	19	0	0	0	0	125	0	0	0	0	0	0	48	0	0	0	0	0	173
*** Region 05 Totals:	3,246	67	573	22	0	100	0	3,169	300	25	0	0	2,322	0	509	0	0	0	524	1,375	7,899
WISCONSIN	407	9	70	1	0	0	0	222	50	0	0	0	403	0	44	0	0	0	0	0	669
ILLINOIS	987	15	176	2	0	0	0	171	0	0	0	0	0	0	43	0	0	0	0	0	214
CENTRAL ILLINOIS	124	4	29	1	0	0	0	312	100	0	0	0	462	0	94	0	0	0	0	0	868
IOWA	211	3	27	0	0	0	0	173	0	0	0	0	0	0	61	0	0	0	0	0	234
MINNESOTA	761	18	115	3	0	0	0	250	50	0	0	0	399	0	72	0	0	0	0	0	721
ST LOUIS	612	9	129	0	0	50	0	195	100	0	0	0	509	0	30	0	0	0	0	0	734
CHICAGO	119	5	28	0	0	0	0	323	0	0	0	0	0	0	108	0	0	0	0	0	431
MADISON	167	0	29	1	0	0	0	98	0	0	0	0	0	0	12	0	0	0	0	0	110
NORTHEAST WISCONSIN	142	2	24	1	0	0	0	200	0	0	0	0	0	0	32	0	0	0	0	0	232
LA CROSSE AREA	100	22	21	0	0	0	0	1,514	0	0	0	0	0	0	6	0	0	0	0	0	1,521
ROCKFORD	87	3	15	1	0	0	0	365	0	0	0	0	0	0	43	0	0	0	0	0	407
MISSISSIPPI VALLEY	155	3	28	0	0	0	0	184	0	0	0	0	0	0	33	0	0	0	0	145	363
EAST CENTRAL ILLINOIS	76	0	21	0	0	50	0	86	50	0	0	0	593	0	82	0	0	0	0	0	761
*** Region 06 Totals:	3,948	93	712	10	0	100	0	4,092	350	0	0	0	2,366	0	660	0	0	0	0	145	7,263

1990/91 Presidential Award of Excellence
 Period Ending October 31, 1990

Chapter	Area Assg Mem	New Mem	Del	Membership Promotion Bonus			D Mem Points	A	Meeting Attendance Bonus			D Mtg Points	Refn Points	RP Points	RP Bonus	CRC	EA	ETA	Total Points
				Adv	A	B			C	B	C								
LOUISVILLE	193	6	32	0	0	0	0	0	0	0	0	0	0	61	0	0	0	0	328
MEMPHIS	206	3	27	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0	221
BIRMINGHAM	252	0	60	0	0	0	0	0	200	0	0	200	0	23	0	0	0	0	265
MOBILE	94	2	16	0	0	0	0	0	0	0	0	0	0	56	0	0	0	0	257
NEW ORLEANS	173	2	31	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	179
BATON ROUGE	80	2	13	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	266
MISSISSIPPI	116	1	24	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	200
NASHVILLE	251	3	60	0	0	0	0	0	0	0	0	0	0	83	0	0	0	0	205
EAST TENNESSEE	222	1	60	0	0	0	0	50	0	0	502	0	0	36	0	0	0	0	605
TENNESSEE VALLEY	74	4	23	0	0	0	0	0	0	0	0	0	0	83	0	0	0	0	476
MONTGOMERY	78	1	19	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	640
BLUEGRASS	81	7	11	0	0	0	0	50	0	0	462	0	0	51	0	0	0	0	640
NORTHWEST FLORIDA	66	1	17	0	0	0	0	50	0	0	422	0	0	36	0	0	0	0	1,108
NORTH ALABAMA	88	0	27	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	158
TOMBIGBEE	28	0	6	0	0	0	0	0	0	0	0	0	0	119	0	0	0	0	152
MOUNTAINEER	77	3	14	1	0	0	0	0	0	0	0	0	0	34	0	0	0	0	81
*** Region 07 Totals:	2,079	36	440	2	0	0	0	3,185	150	0	200	0	1,586	0	820	0	0	0	5,591
ARKANSAS	192	1	31	1	0	0	0	131	0	0	0	0	0	90	0	0	175	135	531
SHREVEPORT	99	1	30	0	0	0	0	150	100	0	0	514	0	0	0	0	0	100	764
HOUSTON	530	14	106	1	0	0	0	239	150	0	0	507	0	38	0	0	350	405	1,538
ALAMO	232	8	55	2	0	0	0	380	150	0	0	781	0	44	0	0	0	0	1,204
AUSTIN	143	7	32	0	0	0	0	371	0	0	0	0	0	23	0	0	0	0	394
DALLAS	543	16	107	3	0	0	0	284	100	0	0	434	0	39	0	0	100	0	857
CENTRAL OKLAHOMA	374	13	72	0	0	0	0	284	0	0	0	0	0	62	0	0	382	0	728
NORTHEASTERN OKLAHOMA	189	2	38	1	0	0	0	156	0	0	0	0	0	147	0	0	125	0	428
FORT WORTH	265	7	57	2	0	0	0	273	100	0	0	416	0	53	0	0	100	140	981
WEST TEXAS	92	1	23	0	0	0	0	112	0	0	0	0	0	21	0	0	75	0	208
EAST TEXAS	57	1	10	0	0	0	0	174	0	0	0	0	0	55	0	0	75	0	304
SOUTH TEXAS	44	0	8	0	0	0	0	55	0	0	0	0	0	6	0	0	0	0	61
*** Region 08 Totals:	2,760	71	569	10	0	100	0	2,608	600	0	0	2,651	0	577	0	0	1,382	780	7,999
KANSAS CITY	471	12	87	2	0	0	0	252	100	0	0	555	0	33	0	485	250	0	1,576
EL PASO	80	5	18	0	0	0	0	461	0	0	0	0	0	0	0	135	0	0	596
ROCKY MOUNTAIN	504	11	104	1	0	0	0	207	50	25	0	576	0	15	0	620	460	0	1,878
UTAH	202	2	39	0	0	0	0	118	0	0	0	0	0	28	0	760	100	0	1,006
NEBRASKA	345	4	78	2	0	0	0	210	50	0	0	517	0	111	0	1,000	150	0	1,989
WICHITA	94	0	15	0	0	0	0	63	50	0	0	468	0	123	0	216	0	0	870
NEW MEXICO	216	1	47	2	0	0	0	139	50	0	0	284	0	60	0	650	175	0	1,132
SOUTH DAKOTA	130	4	33	1	0	0	0	296	0	0	0	0	0	53	0	755	0	0	1,278
BLACK HILLS	32	1	8	0	0	0	0	248	50	0	0	346	0	44	0	255	0	0	850
BIG SKY	101	2	21	0	0	0	0	180	50	0	0	407	0	25	0	122	250	0	1,003
IDAHO	91	2	22	0	0	0	0	188	50	0	0	514	0	73	0	314	0	0	1,042
PIKES PEAK	67	1	8	0	0	0	0	183	0	0	0	0	0	262	0	0	0	0	518
OZARKS	63	7	10	0	0	0	0	804	50	0	0	550	0	56	0	321	0	0	1,731
*** Region 09 Totals:	2,396	52	490	8	0	50	0	3,349	500	25	0	4,218	0	621	0	5,895	1,385	0	15,468

1990/91 Presidential Award of Excellence
Period Ending October 31, 1990

Chapter	Area Assg Mem	New Mem	Del	Adv	Membership Promotion Bonus					Meeting Attendance Bonus					CRC	EA	ETA	Total Points			
					A	B	C	D	Mem Points	A	B	C	D	Mtg Points					Refn Points	RP Points	RP Bonus
SACRAMENTO VALLEY	246	4	58	2	0	0	0	0	0	205	0	0	0	0	0	0	0	0	0	0	257
GOLDEN GATE	756	12	157	3	0	0	0	0	0	180	0	0	0	0	0	0	0	0	0	0	228
SAN JOAQUIN	97	2	23	0	0	0	0	0	0	180	50	0	0	459	0	130	0	0	0	0	768
SOUTHERN CALIFORNIA	892	20	185	4	0	0	0	0	0	228	0	0	0	0	0	61	0	0	0	0	289
SAN DIEGO	317	3	69	1	0	0	0	0	0	130	100	0	0	414	0	34	0	0	0	0	578
CENTRAL ARIZONA	272	1	49	0	0	0	0	0	0	80	0	0	0	0	0	52	0	0	0	0	132
TUCSON	109	2	29	0	0	0	0	0	0	160	0	0	0	0	0	67	0	0	0	0	227
SOUTHERN NEVADA	94	1	18	0	0	0	0	0	0	123	0	0	0	0	0	1	0	0	0	0	124
SAN JOSE	284	11	56	9	0	0	0	0	0	520	0	0	0	552	0	96	0	0	0	0	616
ORANGE EMPIRE	241	10	74	1	0	0	0	0	0	337	50	0	0	0	0	47	0	0	0	0	936
HAWAII	282	7	57	2	0	0	0	0	0	262	0	0	0	0	0	52	0	0	0	0	315
NORTHERN NEVADA	73	2	14	0	0	0	0	0	0	235	0	0	0	0	0	69	0	0	0	0	304
SIERRA DELTA	57	1	13	0	0	0	0	0	0	161	50	0	0	443	0	74	0	0	0	0	678
TRI COUNTY	91	3	17	0	0	0	0	0	0	273	0	0	0	0	0	40	0	0	0	0	313
*** Region 10 Totals:	3,811	79	819	22	0	0	0	0	0	3,074	250	0	0	1,868	0	823	0	0	0	0	5,765
MANITOBA	172	3	32	0	0	0	0	0	0	170	0	0	0	0	0	22	0	0	0	25	217
SOUTHERN ALBERTA	301	2	67	0	0	0	0	0	0	89	50	0	0	468	0	21	0	0	0	150	728
NORTHERN ALBERTA	252	2	54	0	0	0	0	0	0	100	0	0	0	0	0	13	0	0	0	0	112
BRITISH COLUMBIA	350	5	50	6	0	0	0	0	0	280	0	0	0	0	0	14	0	0	0	0	293
INLAND EMPIRE	78	6	21	0	0	0	0	0	0	550	0	0	0	0	0	3	0	0	0	0	553
PUGET SOUND	629	9	134	4	0	0	0	0	0	185	100	0	0	427	0	21	0	0	0	0	633
OREGON	495	13	88	4	0	0	0	0	0	335	100	0	0	437	0	32	0	0	0	0	804
REGINA	50	3	9	0	0	0	0	0	0	456	0	0	0	0	0	0	0	0	0	0	456
SASKATOON	81	2	15	0	0	0	0	0	0	219	0	0	0	0	0	0	0	0	0	0	219
ALASKA	126	4	23	1	0	0	0	0	0	319	0	0	0	0	0	18	0	0	0	0	338
MID-COLUMBIA	63	1	14	1	0	0	0	0	0	257	0	0	0	0	0	60	0	0	0	0	317
VANCOUVER ISLAND	84	3	28	2	0	0	0	0	0	427	50	0	0	477	0	13	0	0	0	0	917
*** Region 11 Totals:	2,681	53	535	18	0	0	0	0	0	3,385	300	0	0	1,809	0	216	0	0	0	175	5,585
JACKSONVILLE	279	4	63	1	0	0	0	0	0	164	100	0	0	400	0	60	0	0	0	25	649
FLORIDA WEST COAST	382	4	81	9	0	0	0	0	0	274	50	0	0	425	0	34	0	0	0	0	733
MIAMI	223	2	52	0	0	0	0	0	0	103	0	0	0	0	0	43	0	0	130	0	275
CENTRAL FLORIDA	254	7	77	1	0	0	0	0	0	243	150	25	0	638	0	30	0	0	100	0	1,011
GOLD COAST	165	1	38	0	0	0	0	0	0	84	50	0	0	545	0	47	0	0	125	0	801
SPACECOAST	81	1	30	0	0	0	0	0	0	109	0	0	0	0	0	34	0	0	0	0	143
PUERTO RICO	130	4	51	0	0	0	0	0	0	231	0	0	0	0	0	100	0	0	230	0	561
GULFSTREAM	161	2	28	1	0	0	0	0	0	182	0	0	0	0	0	55	0	0	0	0	237
SOUTHWEST FLORIDA	92	0	17	0	0	0	0	0	0	54	0	0	0	0	0	211	0	0	10	0	275
*** Region 12 Totals:	1,767	25	437	12	0	0	0	0	0	1,443	350	25	0	2,008	0	614	0	0	620	0	4,685





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

ASHRAE / 1791 Tullie Circle, N.E. / Atlanta, GA 30329

Telephone / 404-636-8400

MR. KIRK W FLOWERS
99 CHALET CRES
LONDON, ON N6K 3C5
CANADA

02 NOV 1990

Subject: Society Membership

Grade:

MEMBER

It is my pleasure to advise you that your advancement in Society membership to the grade indicated above was recommended by the Admissions and Advancement Committee and has been approved by the Board of Directors.

A new membership certificate is being prepared and will be sent to you as soon as it is ready. Enclosed is your current membership card reflecting your new status.

Very truly yours,

Carolyn K. Stewart
Director, Member and Chapter Services

CKS/cge

Encl.

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



APRAE 1751 TUNNICLIFFE, N.E. Atlanta, GA 30329 Telephone 404-638-8400

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Carolyn K. Stewart
Director, Member and Chapter Services

CKS:gcg

Encl.

XVIII e
Congrès
international
du froid inc.

MONTRÉAL, CANADA
DU 10 AU 17 AOÛT 1991



XVIII th
International
Congress of
Refrigeration Inc.

MONTRÉAL, CANADA
AUGUST 10-17, 1991

St. Hyacinthe, September 24, 1990

Mr. Thomas Drennan
President
Chapter 116 - ASHRAE
Drennan Refrigeration
1777 Oxford St. E.
London, ON N5V 2Z6

Sir:

On behalf of the XVIIIth International Congress of Refrigeration Organizing Committee, I have the pleasure of transmitting you the first announcement publication of the Congress which will be held in Montréal from the 10th to the 17th of August 1991.

The attached publication is an invitation to attend the Congress either as a delegate, a speaker or an exhibitor at the Commercial Exhibition. It has been printed in 20,000 copies and distributed in about 60 countries around the world.

I would appreciate having your collaboration in publicizing this international meeting to the members of your Chapter. Don't hesitate to contact our Secretariat if further information and/or additional brochures are required.

Yours truly,



Steve Bittner
Coordinator

SB/hb

Encl.

Comité organisateur / Organizing Committee

3 600, boulevard Casavant Ouest
Saint-Hyacinthe (Québec) Canada J2S 8E3
☎ (514) 773-1105
Télécopieur/Fax: (514) 773.84.61

Direction de l'exposition / Exhibition Management

PR Charette inc.
5 890, avenue Monkland, bureau 206
Montréal (Québec) Canada H4A 1G2
☎ (514) 489-8671
Télécopieur/Fax: (514) 487.32.30





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

1791 Tullie Circle, NE • Atlanta, Georgia 30329 ☎(404) 636-8400 • Tlx 705343 ASHRAE • Fax (404) 321-5478

FILE NO.
REC'D SEP 19 1990
1 ORG

TO: Chapter Secretaries
Chapter Membership Promotion Chairman

FROM: Debra Canady-Foster *DF*

DATE: September 11, 1990

SUBJECT: Revisions - Monthly Chapter Change Report

During the February 1990 Winter Meeting a motion was approved by Member Council to include both home and business address information on the Chapter Change Report, effective during the 1990-91 fiscal year. The enclosed report has been amended to include the same. In addition, the report includes fax numbers, if applicable. An asterisk (*) next to an address or phone number identifies the preferred contact information.

As a result of the above revision, some of the titles in the "Change" column have been amended. Changes to the Alternate or Business address fields will be listed as "ALT/BUS ADDRESS CHA." Changes to the Home address will be listed as "Home Address Change." Phone and fax number changes will also be identified in the "Change" column of the report.

Effective with the report for the period ending September 30, "New Student" records will indicate the school that the student is attending.

If there are problems or questions, please feel free to contact me.

cc: Membership Promotion Committee





ASHRAE

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

1791 Tullie Circle, NE • Atlanta, Georgia 30329 ☎404- 636-8400 • Tlx 705343 ASHRAE • Fax 404-321-5478

To: Chapter Secretaries (1990-91)
From: Debra Canady-Foster
Date: June 27, 1990
Re: Chapter Meeting Minutes Cover Sheet

One of your major responsibilities as chapter secretary will be to submit copies of monthly chapter meeting minutes to ASHRAE headquarters. Enclosed is an initial supply of the forms that should be used for submitting your minutes.

The minutes cover sheet should be attached to your minutes. The information requested on the form will assist us in awarding appropriate PAOE points. A copy of the minutes form is included in the Manual for Chapter Operations (MCO).

Please feel free to duplicate copies as needed. If there are questions, let us know.

Thank you for your cooperation.

cc: Chapter Presidents
Regional Chairmen
Membership Promotion Committee



AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
1791 Tullie Circle, N.E.
Atlanta, Georgia 30329

MINUTES

CHAPTER: _____ MEETING DATE: _____

Indicate Type of Meeting: Chapter _____ Board of Governors _____

ATTENDANCE: MEMBERS _____ GUESTS _____ COMPILED BY _____

DISTRIBUTION: Retain the original for chapter files, mail one copy to your Regional Chairman and one copy to Manager, Membership Dept., ASHRAE, Atlanta.

SUGGESTED 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
10. DISCUSSIONS
11. MOTIONS
12. RESOLUTIONS
13. OTHER FEATURES
14. ADJOURNMENT





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

1791 Tullie Circle, NE • Atlanta, Georgia 30329 ☎(404) 636-8400 • Tlx 705343 ASHRAE • Fax (404) 321-5478

TO: Chapter Presidents
FROM: Debra Canady-Foster *DC**
DATE: August 27, 1990
SUBJECT: Chapter Letterhead

CHAMLEY & BISSET LTD.	
LOUNGE	ONTARIO
FILE NO.	
REC'D SEP - 7 1990	
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Enclosed is an initial ream of letterhead for your chapter's use. One ream of letterhead is available each year without charge. Additional reams may be purchased at a cost of \$6.00 per ream. If additional reams are required, please send your payment along with your request. We will not ship additional reams without prepayment.

Chapters that require additional information printed on their letterhead must have printing done locally.

If there are questions, please feel free to contact my office.

Enclosure

cc: Chapter Secretary
Director Regional Chairman





OWEN

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

1791 Tullie Circle, NE • Atlanta, Georgia 30329 ☎ 404-636-8400 • Tlx 705343 ASHRAE • Fax 404-321-5478

Norman W. Johnson
Director and Regional Chairman II
TO: ALL CHAPTER PRESIDENTS
REGION II

Reply to: JOHNSON PATERSON INC.
210 Denison Street
Markham, Ontario, Canada
L3R 1B6
☎ 416-479-4004
FAX 416-475-3049

FROM: Norm Johnson

DATE: August 30, 1990

RE: C.R.C. '90 MONTREAL

Gentlemen:

As you are aware, the C.R.C. in Montreal was my third and last, and I thank you and your Chapter Members for the support extended. In order for me to assist the new DRC Region II, I have prepared a questionnaire to be completed by each Member of your Chapter who attended, for the entire Conference, or for part.

I have enclosed several copies, if you require more, please copy and give one to each attendee.

I also ask that you distribute one to each person who attended and return them to me in one package. I will then tabulate and review same and pass on the results to you.

Your co-operation would be appreciated and would you please accept the task as a personal project and return the completed forms to me with the least possible delay. I thank you for your assistance and look forward to their return.

I am sure you can realize the importance and that the input will only help to improve future C.R.C.'s.

Best regards,

Norm

NJ:jw

Encl.

c.c: Don Rich
Stephen Comstock
Nominating Committee
Gail Menzies
Norm Nathan - General Chairman C.R.C. '90

Billy Manning
R.V.C.s II

Jules Olsen
Historians





C.R.C. - REGION II EVALUATION
MONTREAL AUGUST 21-25, 1990

DATE: SEPT 10/90

CHAPTER: LONDON

OFFICE HELD: ~~FR~~ SECRETARY

Delegate Alternate
 Committee Chairman
 What Committee _____
 Other TREASURER

What Sessions did you attend?	Yes	No
- Pre Caucus breakfast	<input type="checkbox"/>	<input type="checkbox"/>
- First Business Session	<input type="checkbox"/>	<input type="checkbox"/>
- Second Business Session	<input type="checkbox"/>	<input type="checkbox"/>
- Third Business Session	<input type="checkbox"/>	<input type="checkbox"/>
- Caucus	<input type="checkbox"/>	<input type="checkbox"/>
- Executive Session 1st	<input type="checkbox"/>	<input type="checkbox"/>
2nd	<input type="checkbox"/>	<input type="checkbox"/>

Did you attend the Workshops? Yes No

What day? Friday Saturday

Would you recommend similar format for Workshops next year? Yes No

Comments: _____

Other comments or suggestions on C.R.C. '90 (use additional page(s) if necessary).

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Workshop attended _____ (use separate form for each Session
- copy this form if necessary)

How would you rate this Workshop: Excellent ____: Good ____:
Fair ____: Poor ____:

- | | Yes | No |
|---|--------------------------|--------------------------|
| 1. Was the information presented clearly? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Was the presenter well prepared? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were the audio/visual aids worthwhile? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Do you consider the time spend worthwhile?
Comments _____ | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was there adequate information provided?
Comments _____ | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. What additional material would be helpful?
Comments _____

_____ | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Do you have suggestions how the Workshop could
be more effective?
Comments _____

_____ | <input type="checkbox"/> | <input type="checkbox"/> |

