



ASHRAE Research

1791 Tullie Circle, NE • Atlanta, Georgia 30329-2305

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Thomas Anderson, CFRE
Manager of Research Promotion

TO: Chapter Research Promotion Chairs
FROM: Thomas Anderson
DATE: July 25, 1994
SUBJECT: FY 1993-94 Year-End Research Contributions Report

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Congratulations on a record breaking year!

1. Year-End Contributions = \$1,383,113 (78.1% of Goal).

A big **THANK YOU** to everyone who helped make this year the best year ever for Research Promotion. We ended the year with \$97,796 (7.8%) over last year's collections.

Your fundraising efforts are important for ASHRAE and the industry. The enclosed press releases reporting on the Summer ASHRAE Meeting in Orlando demonstrate how active ASHRAE Research is in providing technology that we all use. Results from 17 ASHRAE-sponsored projects (a record number) were reported in the technical sessions. Additionally, \$1,120,147 was approved for 16 new research projects. Because of your success ASHRAE is the global leader in providing HVAC&R technology.

For the first time, two regions exceeded their Chapters' Goals. Congratulations to Danny Castellan, Region II RP RVC and Gary L. Cooper, Region IX RP RVC and their Chapter RP Chairs for their leadership and great results.

Randy Sikkema, Region VI RP RVC and his Chapter RP Chairs are to be commended for establishing a **NEW RECORD** for total collections from a region. Region VI investments totaled \$184,443.

2. Goal Busters (see complete listing of 61 chairmen)

Congratulations to the 36 new "Goal Busters" since May 16th:

Gary M. Franchi, Champlain Valley
Brien D. Storey, New Brunswick
Jean R. Bundock, Quebec
Gary E. Booth, Anthracite
Robert D. Black, Central Pennsylvania
Roger Lee Howard, Johnstown

Michael R. Bognaski, Granite State
Neil K. Armstrong, Ottawa
Frank A. Frabotta, Windsor
William A. Cather, Baltimore
Donald E. Larsson, Hampton Roads
Todd S. Goodstein, Philadelphia



Michael B. Hurd, Roanoke	Andrew N. Evans, Greenville
Michael Anthony Pietrantano, Cincinnati	William J. Tipperreiter, Chicago
Louis E. Sonnevile, Mississippi Valley	Robert E. Stagg, St. Louis
Daniel V. Gonzalez, Wisconsin	Richard A. Camp, Birmingham
Terence W. McLorg, Bluegrass	Joel J. Goldberger, East Tennessee
Kenneth C. Peet, Louisville	Scotty M. Hutto, Mississippi
Harold C. Cook, Nashville	Frank H. Schambach, New Orleans
Guy M. Beaty III, Tennessee Valley	Ronald Richard Grant, Alamo
Carl W. Wampler, West Texas	Charles J. Sloup, Nebraska
Roy Kenneth Neese, Pikes Peak	Robert Bryan Padgett, Rocky Mountain
Harry D. Brattin, San Diego	Juan A. Soler, Florida West Coast
Steven M. Feller, Gold Coast	Brian E. Curtin, Spacecoast

3. Excellence in Research Promotion

ASHRAE Research has completed the year with many fine examples of volunteer achievement. Notable milestones were achieved:

- ASHRAE Research Golden Circle includes 14 companies and organizations that have invested \$10,000 or more in research.
- \$88,624 was personally contributed by 918 ASHRAE leaders.
- Northeastern Oklahoma and Regina obtained more contributions than assigned members.
- Region VI collected a record \$184,443.
- Region VIII collected the most per assigned member (\$57.39 per member).
- Eight Regions established new Regional High Fives

Chapter achievement summaries follow:

- 61 Chapters exceeded Goal.
- 68 Chapters established new High Fives.
- 33 Chapters achieved the Research Promotion High Five Award by obtaining a new record high this year and 4 of the past 5 years.
- 2 Chapters obtained more contributors than chapter assigned members.
- 1 Chapters obtained more than 200 contributors.
- 17 Chapters obtained between 100 and 200 contributors.
- 1 Chapter collected more than \$40,000.
- 1 Chapter collected between \$30,000 and \$40,000.
- 15 Chapters collected between \$20,000 and \$30,000.
- 34 Chapters collected between \$10,000 and \$20,000.
- 4 Chapters exceeded \$100 per assigned member.
- 40 Chapters collected between \$50 and \$100 per assigned member.
- 64 Chapters exceeded par (\$40 per assigned member).

4. Year-End Best Ten

June Best Ten lists include 34 different ASHRAE chapters. Seventeen different chapters *listed in bold italics* are new to one or more categories. Congratulations to these leading Research Promotion Chairs. Congratulations to our leading chairmen for a fine job.

\$ per Member		# Contributors through 6-30-94		\$ Contributed through 6-30-94	
Rockford	\$156.26	N.E. Oklahoma	237	Minnesota	\$40,368
Utah	109.14	C. Oklahoma	187	Illinois	35,320
N.E. Oklahoma	103.04	Hawaii	186	Wisconsin	29,115
Mississippi	102.23	Minnesota	183	Atlanta	28,125
Southern Nevada	95.30	Atlanta	174	Toronto	27,167
Central Penn	92.36	St. Louis	161	National Cap.	27,062
Arkansas	86.71	S. Piedmont	148	Central Penn.	26,968
Wisconsin	76.82	Utah	145	C. Oklahoma	26,406
Black Hills	76.11	Baltimore	137	Baltimore	25,960
Windsor	76.05	Triangle	136	Dallas	23,285

% of Chapter's Goal		% of Challenge Goal		% Contributors to Members	
San Diego	176.7%	San Diego	148.4%	N.E. Okla.	124.7%
Utah	155.2	Rockford	148.0	Regina	100.0
Tri County	149.3	Tri County	145.8	S. Nevada	84.0
Southern Nevada	146.6	Utah	144.2	Black Hills	80.6
Central Penn.	145.8	S. Nevada	143.1	Utah	69.4
Kansas City	137.3	N.E. Oklahoma	138.0	Johnstown	64.5
Chicago	136.8	Bluegrass	126.8	Windsor	61.4
Hampton Road	134.6	Ottawa Valley	125.2	Hawaii	61.4
Montreal	134.2	Central Penn.	120.2	W. Texas	58.8
N.E. Oklahoma	130.5	Mississippi	120.1	La Crosse	58.3

5. Year-End Wrap Up Needs

I need your help with two things within the next 2 weeks to complete the 1993-94 year:

1. Please review the enclosed list of names to be included in the 1993-94 Honor Roll for the Journal. I need your response on corrections or additions immediately to meet publication deadlines. If I don't hear from you, I will assume that the names for contributors to your chapter are correct.

2. The list of contributor certificate and plaque recipients will be sent for your review in August. Please let me know by September 5th if anyone was missed. If you need volunteer certificates for solicitors, please provide those names when you respond to our list of contributors to receive recognition items.

Distribution: RP Committee
Regional Directors
Chapter Presidents
Frank M. Coda, E DIR
J. Richard Wright, D TECH
Robert D. Heym
Jeffrey D. Brouillette

Conny R. Brown, DAL
John S. Blossom, V-PRES
David E. Knebel, R&T
Kenneth W. Dean, ARC
Ronald P. Vallort
George A. Jackins
Gerald H. Seifert

1993-94 GOAL BUSTERS

Congratulations on a successful year. Your success enables ASHRAE to keep its commitment to develop technology for the HVAC&R industry.

Reg	RP CHAIR	Chaper	PAR	High 5	High 5 Award	Challenge Goal	Chapter's Goal
I	Christopher C. Leister	Champlain Valley	No	No	No	78.7%	106.8%
I	Gary M. Franchi	Connecticut	No	Yes	Yes	101.7%	105.2%
I	Michael R. Bognaski	Granite	No	Yes	No	82.4%	104.1%
I	Kevin Patrick Phillips	Twin Tiers	Yes	Yes	Yes	85.5%	113.3%
II	Daniel Robert	Montreal	No	Yes	No	78.4%	134.2%
II	Brien D. Storey	New Brunswick	No	Yes	Yes	95.8%	102.2%
II	Neil K. Armstrong	Ottawa	Yes	Yes	No	125.2%	124.2%
II	Jean R. Bundock	Quebec	No	Yes	Yes	73.1%	100.0%
II	Frank A. Frabotta	Windsor	Yes	Yes	Yes	110.1%	108.4%
III	Gary E. Booth	Anthracite	Yes	Yes	No	93.7%	110.7%
III	William A. Cather	Baltimore	No	No	No	84.2%	103.8%
III	Robert D. Black	Central Penn	Yes	Yes	No	120.2%	145.8%
III	Donald E. Larsson	Hampton Roads	No	No	No	72.1%	134.6%
III	Roger Lee Howard	Johnstown	Yes	Yes	No	104.8%	109.2%
III	Todd S. Goodstein	Philadelphia	No	Yes	No	87.7%	115.3%
III	Michael B. Hurd	Roanoke	Yes	Yes	No	102.4%	108.9%
IV	Andrew N. Evans	Greenville	Yes	Yes	No	101.5%	101.5%
IV	William Davis Mann	Southern Piedmont	Yes	Yes	No	104.2%	104.2%
IV	Keith M. Spring	Triangle	Yes	Yes	No	104.4%	104.4%
V	Michael Anthony Pietrantano	Cincinnati	No	Yes	No	91.1%	104.5%
V	Dennis P. Sczomak	Detroit	No	Yes	No	112.6%	123.5%
VI	William J. Tipperreiter	Chicago	No	No	No	65.3%	136.8%
VI	Daniel L. Doyle	Illinois	No	Yes	No	97.7%	104.6%
VI	Louis E. Sonnevile	Mississippi Valley	Yes	Yes	No	91.2%	106.4%
VI	William J. Kushner	Rockford	Yes	Yes	Yes	148.0%	101.6%
VI	Robert E. Stagg	St Louis	No	Yes	Yes	86.3%	100.0%
VI	Daniel V. Gonzalez	Wisconsin	Yes	Yes	No	100.5%	100.4%
VII	Richard A. Camp	Birmingham	Yes	Yes	Yes	90.7%	104.3%
VII	Terence W. McLorg	Bluegrass	Yes	Yes	No	126.8%	108.4%
VII	Joel J. Goldberger	East Tennessee	Yes	Yes	No	101.9%	114.9%
VII	Kenneth C. Peet	Louisville	Yes	Yes	No	99.4%	111.6%
VII	Scotty M. Hutto	Mississippi	Yes	Yes	Yes	120.1%	120.1%
VII	Gayle S. Merritt	Mobile	Yes	Yes	Yes	96.9%	104.1%
VII	Betty B. Plaster	Montgomery	Yes	Yes	Yes	96.5%	107.9%
VII	Harold C. Cook	Nashville	Yes	Yes	Yes	90.5%	101.4%
VII	Frank H. Schambach	New Orleans	Yes	No	No	103.6%	87.1%
VII	Guy M. Beaty III	Tennessee Valley	Yes	Yes	Yes	104.8%	97.8%
VIII	Ronald Richard Grant	Alamo	Yes	Yes	Yes	107.8%	104.1%
VIII	Jerry A. Baldwin	Arkansas	Yes	No	Yes	102.0%	101.0%
VIII	Tony Moore	Northeastern Oklahoma	Yes	Yes	Yes	138.0%	130.5%
VIII	Mody K. Boatright	South Texas	Yes	Yes	Yes	86.8%	122.6%
VIII	Carl W. Wampler	West Texas	Yes	Yes	Yes	103.2%	103.2%
IX	John C. Waddington	Black Hills	Yes	Yes	Yes	117.8%	101.5%
IX	Bradley L. Bird	Idaho	Yes	Yes	Yes	92.5%	120.9%

1993-94 GOAL BUSTERS Continued

IX	Michael F. Lorenz	Kansas City	No	Yes	Yes	104.6%	137.3%
IX	Charles J. Sloup	Nebraska	Yes	Yes	No	95.9%	120.0%
IX	Stephen B. Maggart	New Mexico	No	Yes	No	84.0%	101.2%
IX	Roy Kenneth Neese	Pikes Peak	Yes	Yes	No	101.6%	100.5%
IX	Robert Bryan Padgett	Rocky Mountain	No	Yes	No	108.9%	104.3%
IX	Thomas D. Colvin	Utah	Yes	Yes	Yes	144.2%	155.2%
X	Blake M. Araki	Hawaii	Yes	Yes	Yes	101.7%	114.0%
X	Harry D. Brattin	San Diego	No	Yes	No	148.4%	176.7%
X	Michael W. Gallagher	Southern California	No	Yes	No	115.4%	115.4%
X	Donald G. Koch	Southern Nevada	Yes	Yes	No	143.1%	146.6%
X	R. Anthony Pierce	Tri-County	Yes	Yes	No	145.8%	149.3%
XII	T. Mark Kirby	Central Florida	Yes	Yes	Yes	101.4%	113.7%
XII	Juan A. Soler	Florida West Coast	Yes	Yes	Yes	93.1%	102.2%
XII	Steven M. Feller	Gold Coast	No	No	No	99.3%	103.3%
XII	Ben W. Bickham	Gulfstream	Yes	Yes	Yes	104.5%	101.3%
XII	Jon R. Ellis	Southwest Florida	Yes	Yes	No	95.8%	107.8%
XII	Brian E. Curtin	Spacecoast	No	Yes	No	103.4%	103.0%

FY 1993-94 Year-End Investment Report
June 30, 1994

Region	YTD Amount	Increase Since 94/05/31	Chapter's Goal	% of Chapter's Goal	Challenge Goal	% of Challenge Goal
I	\$ 109,074	40.0%	\$ 150,650	72.4%	\$ 170,493	64.0%
II	81,767	84.3	81,700	100.1	99,978	81.8
III	146,439	143.2	155,000	94.5	177,690	82.4
IV	97,548	26.0	106,153	91.9	106,158	91.9
V	72,622	30.6	99,096	73.3	98,907	73.4
VI	184,443	23.6	197,359	93.5	208,184	88.6
VII	103,613	131.3	105,721	96.0	109,660	94.5
VIII	159,371	29.0	208,333	76.5	204,683	77.9
IX	122,760	65.9	112,700	108.9	125,519	97.8
X	119,861	29.6	142,100	84.3	166,729	71.9
XI	68,421	54.9	104,844	65.3	107,185	63.8
XII	73,376	30.1	77,100	95.2	81,996	89.5
Int'l	24,560	8.1	30,000	81.9	30,000	81.9
<u>GC/Other</u>	<u>19,260</u>	<u>NA</u>	<u>200,000</u>	<u>9.6</u>	<u>110,000</u>	<u>17.5</u>
TOTAL	\$ 1,383,113	50.1%	\$1,770,756	78.1%	\$1,797,182	77.0%

Congratulations On A

Record Setting Year

**Research Promotion Funds Received
Compared with Prior Years**

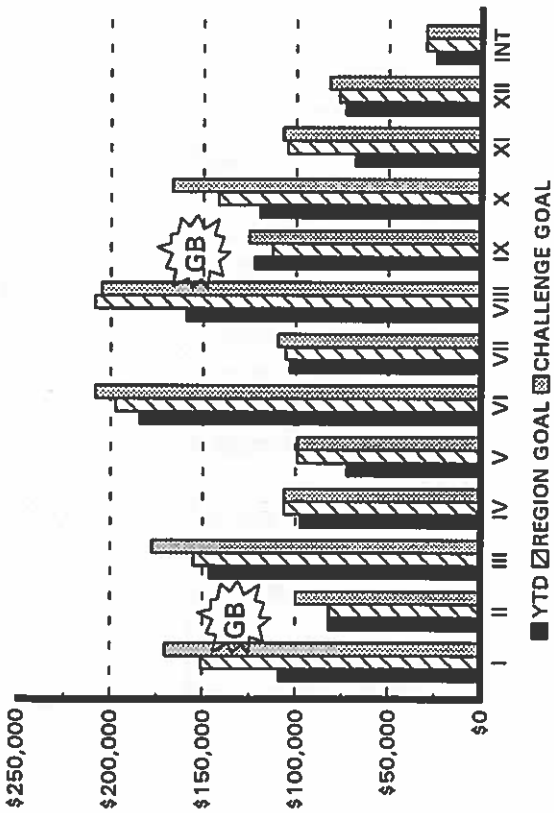
Date	1991-92		1992-93		1993-94	
	Amount	% *	Amount	% *	Amount	% *
* FY Budget	\$1,680,000		\$1,700,000		\$1,800,000	
Sept 30	\$ 121,415	7.2	\$ 119,460	7.2	\$ 169,574	9.4
Oct 31	146,792	8.7	148,754	8.8	183,573	10.2
Nov 30	166,124	9.9	176,093	10.4	206,257	11.5
Dec 31	210,349	12.5	204,490	12.0	277,317	15.4
Jan 31	300,278	17.9	299,675	17.6	342,384	19.0
Feb 28	353,805	21.1	380,654	22.4	396,190	22.0
Mar 15	422,962	25.2	427,016	25.1	441,265	24.5
Mar 31	528,348	31.4	493,711	29.0	510,823	28.4
Apr 15	609,157	36.3	548,280	33.9	565,154	31.4
Apr 30	687,997	41.0	667,999	39.3	657,305	36.5
May 15	797,793	47.5	744,851	43.8	780,067	43.3
May 31	850,322	50.6	852,114	50.1	921,523	51.2
Jun 15	958,387	57.1	903,411	53.1	991,796	55.1
Jun 30-Final	\$1,303,560	77.6	\$ 1,285,317	75.6	\$ 1,383,113	76.8

June 30, 1994 - Contributions by Source

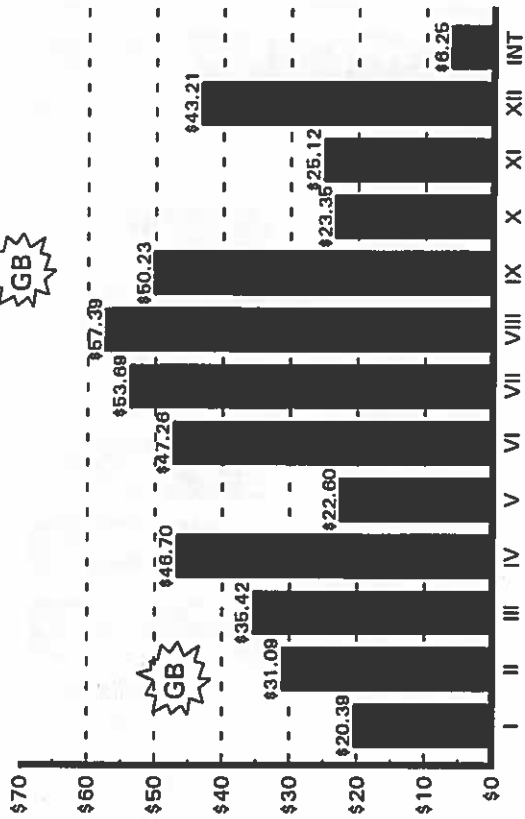
Source	\$\$\$	Number	Average Contribution
Golden Circle	\$ 146,050	14	\$ 10,434.14
Dual Recognition	49,606	277	179.08
Direct from Contributor	163,134	809	201.65
Presidential Solicitation	6,860	35	196.00
Chapter RP Volunteers	950,269	5,402	156.28
Direct Mail	43,405	252	172.24
Contributions with Dues	<u>126,496</u>	<u>2,037</u>	<u>62.10</u>
Totals	\$ 1,379,770	8,826	\$ 156.33

SOCIETY PROGRESS

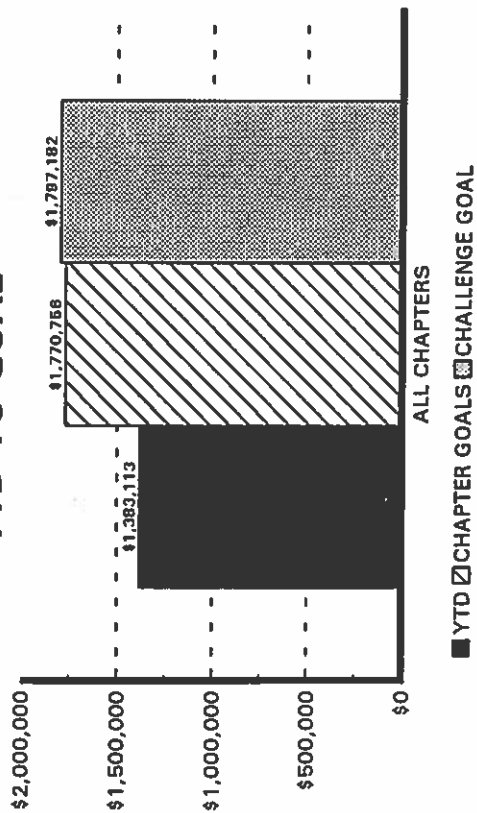
YEAR-TO-DATE/GOALS



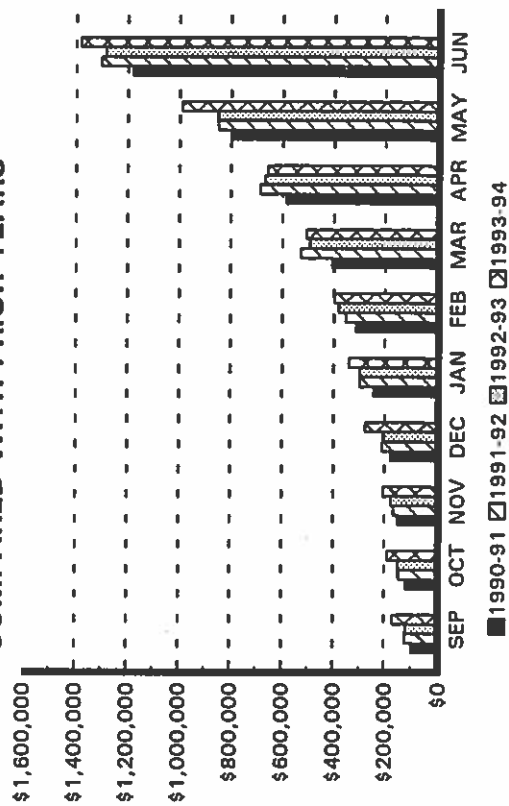
\$ PER ASSIGNED MEMBER



YTD TO GOAL



MONTHLY YTD COMPARED WITH PRIOR YEARS

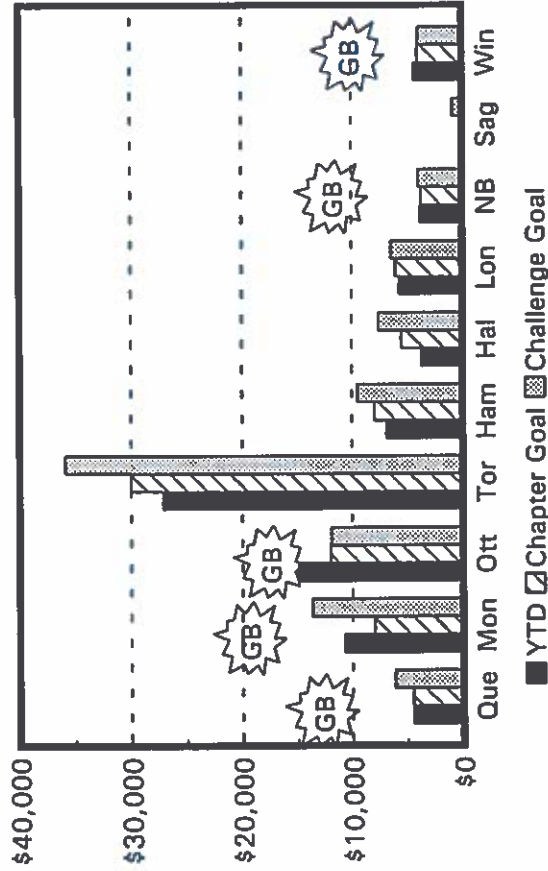


1993-94
Final Report

REGION II

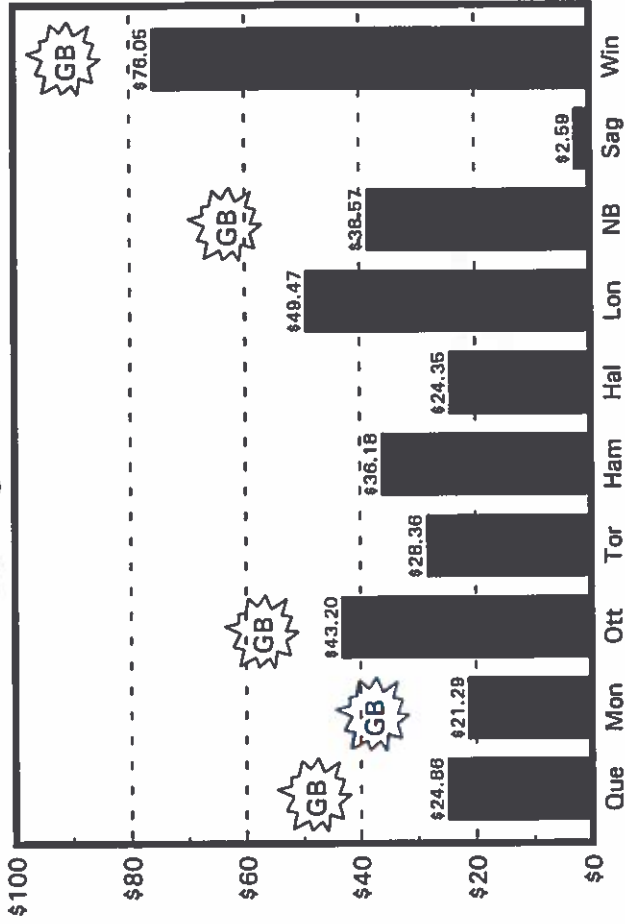
Progress

Year-to-Date/Goals



1993-94
Final Report

\$ Per Assigned Member



PAOE Par is \$40 per Assigned Member
Society Budget is \$47 per Assigned Member

1993-94 YEAR-END RESEARCH CONTRIBUTIONS SUMMARY

REG	CHAPTER	YEAR-TO-DATE		CHAPTER'S GOAL	CHALLENGE GOAL		INVESTORS	PER MEMBER		HIGH FIVE	RP PAOE CALCULATIONS			ADDITIONAL \$ FOR GOALS/AWARDS							
		#	\$		INCREASE SINCE 05/31/94	\$		%	TOTAL ASSG MEMB		% OF MEMB GIVING	YTD	GOAL	PAOE POINTS	RP NITE BONUS	MAY 31 HIGH 5	TOTAL PAOE POINTS	ADDT'L \$ FOR 400-PAOE	ADDT'L \$ FOR CHAP GOAL	ADDT'L \$ HIGH 5	
2	13 Quebec	28	4500	111.6%	4500	100.0%	6160	73.1%	181	15.5%	\$24.88	\$24.88	248	50	0	299	\$1,835	\$0	\$0	OVER GOAL HIGH 5	
2	14 Montreal	60	10732	73.9%	8000	134.2%	13888	78.4%	504	11.9%	\$21.29	\$15.87	213	50	0	263	\$6,908	\$0	\$0	OVER GOAL HIGH 5	
2	15 Ottawa	95	14903	50.1%	12000	124.2%	11903	125.2%	345	27.5%	\$43.20	\$34.78	432	0	0	432	\$0	\$0	\$0	OVER GOAL HIGH 5	
2	18 Toronto	57	27187	142.1%	30000	90.6%	35928	75.6%	858	5.9%	\$28.38	\$31.32	284	0	0	284	\$11,153	\$0	\$2,833	\$7,280	
2	37 Hamilton	41	6910	240.4%	8000	86.4%	9546	72.4%	191	21.5%	\$38.18	\$41.88	362	0	0	362	\$730	\$0	\$1,090	\$2,088	
2	100 Halifax	28	3725	10.4%	5500	67.7%	7604	49.0%	153	19.0%	\$24.35	\$35.85	243	0	0	243	\$2,395	\$0	\$1,775	\$3,814	
2	118 London	33	5640	68.8%	8000	94.0%	8405	88.1%	114	28.9%	\$49.47	\$52.83	495	50	0	545	\$0	\$0	\$360	HIGH 5	
2	117 NB Brunswick	21	3780	3.4%	3700	102.2%	3944	95.8%	98	21.4%	\$38.57	\$37.78	388	0	75	461	\$0	\$0	\$0	OVER GOAL HIGH 5	
2	140 Saguenay	1	75	0.0%	0	NA	865	8.7%	29	3.4%	\$2.59	\$0.00	28	0	0	26	\$1,085	\$505	\$0	NA	\$1,551
2	141 Windsor	35	4335	78.9%	4000	108.4%	3637	110.1%	57	81.4%	\$78.05	\$70.18	781	0	0	781	\$0	\$0	\$0	OVER GOAL HIGH 5	
2	890 Other 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	902 Total 2	400	81787	84.3%	81700	100.1%	98978	81.8%	2630	15.2%	\$31.09	\$31.08	91141	Region II Average	3674	3674					

REGION 02 - CHAPTER 116 - LONDON

CONTRIB DATE	S NAME OF CONTRIBUTOR	MEMBER NUMBER	CHECK NUMBER	NON-MEMBER	MEMBER	-----TYPE-----		
						GENERAL	EARMARKED MEMORIAL	
07/21/93	X RENZO FERRERA	2050869	0214333		50.00	50.00		
07/29/93	I JOSEPH M CLAESSENS	5017686	74033		20.00	20.00		
10/26/93	I KRISTINE ANN NORRIS	5058696	74195		20.00	20.00		
10/26/93	I CANADIAN BLOWER/CANADIAN	2013691	74199	250.00	250.00	250.00		
04/26/94	D UNION GAS LIMITED - CHATA	5048033	76269	1,000.00	1,000.00	1,000.00		
05/31/94	I DARRYL K BOYCE	1008700	77798		35.00	35.00		
05/31/94	I TRANE SALES AGENCY - LOND	1980988	77801	200.00	200.00	200.00		
05/31/94	I SMYLLIE & CROW ASSOCIATES	2032580	77512	200.00	200.00	200.00		
05/31/94	I LONDON CANADA CHAPTER ASH	5050308	77510	1,000.00	1,000.00	1,000.00		
05/31/94	I PETER K ZIEBART	2048527	77513		25.00	25.00		
05/31/94	I BRENDA M STONEHOUSE	5017562	77800		20.00	20.00		
05/31/94	I CONTROL SYSTEMS - ONTARIO	2041798	77511	125.00	125.00	125.00		
05/31/94	I WAYNE H BARKER	0038961	77514		25.00	25.00		
05/31/94	I JOHN B BISSET	0064827	77797		75.00	75.00		
05/31/94	I GLOVER HILL INCORPORATED	2023101	77799+	300.00	300.00	300.00		
06/15/94	I CHORLEY & BISSET LIMITED	1917556	78050	500.00	500.00	500.00		
06/15/94	I MARNEY KENT	5088709	78051		25.00	25.00		
06/15/94	I TECHNICAIR LIMITED	2012668	78048	100.00	100.00	100.00		
06/15/94	I DONALD M R JOHNSON	0364284	78074		35.00	35.00		
06/15/94	I DRENNAN REFRIGERATION INC	5029330	78070	250.00	250.00	250.00		
06/15/94	I PALSER ENTERPRISES LIMITE	2023099	78071	125.00	125.00	125.00		
06/15/94	I GRACE DEARBORN INCORPORAT	5083996	78073	200.00	200.00	200.00		
06/15/94	I NEIL E COURNEYA	5079056	78072		25.00	25.00		
06/15/94	I WAYNE FREDERIC WALKER	5080862	78052		40.00	40.00		
06/15/94	I OWEN RICHARD GLENDON	2001689	78053		40.00	40.00		
06/30/94	I JEFFREY G HAYWOOD	0311256	79515		30.00	30.00		
06/30/94	I VANDERWESTEN & RUTHERFORD	2032586	79519	250.00	250.00	250.00		
06/30/94	I E H PRICE SALES LIMITED -	1964930	79491	100.00	100.00	100.00		
06/30/94	I JOHNSON CONTROLS LIMITED	2012904	79517	150.00	150.00	150.00		
06/30/94	I WILLIAM A OVINGTON	0556639	79516		50.00	50.00		
06/30/94	I ROBERTS BROTHERS SHEET ME	5011463	79518	125.00	125.00	125.00		
06/30/94	I HONEYWELL LIMITED - LONDO	2049381	79493	150.00	150.00	150.00		
06/30/94	I INTEGRATED DESIGN SERVICE	5100658	79492	100.00	100.00	100.00		
CHAPTER 116 - TOTAL						5,125.00	5,640.00	0.00
HIGH FIVE CHAPTER'S GOAL							5,640.00	
CHALLENGE GOAL							114	
CHAPTER GOAL PER ASSIGNED MEMBER							\$49.47	
* CHAPTER'S GOAL							88.1	
CONTRIBUTION TOTAL ASSIGNED MEMBERS (PAOE)							5,640.00	
CONTRIBUTIONS PER ASSIGNED MEMBER							\$49.47	
* CHALLENGE GOAL							88.1	



News

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

1791 Tullie Circle, NE • Atlanta, Georgia 30329-2305 • (404) 636-8400 • Telefax (404) 321-5478

For Release:
July 1, 1994

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ASHRAE President:
Society to Increase Work in Codes, Total Building Design

ORLANDO -- A code-language standard covering safety requirements for the operation of mechanical refrigeration systems was approved by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) at its annual meeting held June 25-29 in Orlando, Fla.

ASHRAE approved Standard 15-1994, Safety Code for Mechanical Refrigeration, the Society's first standard written in code useable language, said ASHRAE President Billy R. Manning, P.E. The standard prescribes the safety procedures required for the safe operation of air-conditioning and refrigerating equipment and systems. Procedures for systems are determined by the toxicity and flammability classifications of the refrigerant used.

"The new Standard 15 will make it easier for building owners and consulting engineers to receive approval of their mechanical refrigeration rooms containing systems that use the new refrigerants which are replacing ozone-depleting refrigerants,"

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said Manning. It replaces Standard 15-1992, a standard which was not written in code language.

"By writing ASHRAE standards in code language, the Society is meeting the industry's and public's need for updated technical information put into an application-type format," Manning said. The code-language ASHRAE Standard 15-1994 will be submitted to the three major code-writing organizations in the United States for adoption into their model building codes. By submitting a code-language document instead of a standard, the adoption period can be shortened by three to four years, said Manning.

Also, advances in alternative refrigerant development were reported. ASHRAE approved the safety rating of several alternative refrigerants by toxicity and flammability in addenda to ASHRAE Standard 34-1992, Number Designation and Safety Classification of Refrigerants, said Manning. Approval of the addenda and Standard 15-1994 are subject to a 30-day appeal period.

Throughout the ASHRAE meeting, data on alternative refrigerants for R-22 and R-502 were released. One paper studied alternative refrigerants for low-temperature refrigeration equipment, finding that the zeotropic blend R-32/R-125/R-134a (10%/70%/20%) is an acceptable long-term replacement for R-502, especially at lower condensing temperatures and higher subcooling conditions.

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Total building design was another topic addressed at the ASHRAE meeting. Manning said the Society should advance the concept of total building design to fill the world's need for controlled indoor environments that are economical in both original investment and operation and have no adverse impact on the world environment.

"Total building design, the sum of all components of building construction and the electrical and mechanical systems that contribute to energy use, is a concept driven by economics and the well-being of occupants," said Manning. "ASHRAE will increase its activity in total building design and develop programs that will establish ASHRAE as the focal point of information that guides total building design."

Manning, president of SBCCI, Public Safety Testing and Evaluation Services, Inc. in Birmingham, Ala., was installed ASHRAE president at the meeting.

Other members of the Board of Directors installed were:

- President-Elect Richard B. Hayter, Ph.D., P.E., associate dean of Engineering for Extension and Outreach at Kansas State University in Manhattan, Kan.
- Treasurer James E. Hill, Ph.D., chief of Building Environment Division for National Institute of Standards and Technology (NIST) in Gaithersburg, Md.

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- Vice President John S. Blossom, P.E., a consulting engineer in Cincinnati, Ohio.
- Vice President Donald E. Holte, P.Eng., senior vice president of marketing for Visionwall Technologies, Inc. in Edmonton, Alberta, Canada.
- Vice President George A. Jackins, P.E., principal with Engineering Resource Group, Inc. in Birmingham, Ala. and Jackson, Miss.
- Vice President Ronald J. Kessner, P.E., regional marketing and sales manager for Carrier Corporation in Orlando, Fla.

New regional chairman serving on the ASHRAE Board are:

- Joseph K. Ting, P.E., senior mechanical engineer for the New York State Dormitory Authority in Delmar, N.Y.
- John T. Dugan, a consultant with Landis & Gyr Powers, Ltd. in Ottawa, Ontario, Canada.
- J. Thomas Sobieski, executive vice president of Miller-Picking/York International Corp. in Johnstown, Pa.
- Alexander J. Boome, P.Eng., president of Alexander Boome Consulting Engineering, Ltd. in Vancouver, British Columbia, Canada.

Taking office as directors-at-large are:

- John B. Bisset, P.Eng., president of Chorley & Bisset in London, Ontario, Canada.

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- William J. (Joe) Buck, secretary/treasurer of Engineering Refrigeration Systems, Inc. in Mobile, Ala.
- Laurence S. Staples, Jr., president of L.S. Staples, Co. in Prairie Village, Kan.

Also, the Society approved \$1,120,147 for 16 research projects at the meeting. Approved were:

- * Implementation of On-Line Optimal Supervisory Control of Cooling Plants Without Storage at the University of Colorado.
- * Characterization of Frost Growth and Heat Transfer at Low Temperatures at the University of Saskatchewan.
- * Research Protocols for Evaluating the Relationship Between the Indoor Environment and Productivity at Virginia Polytechnic Institute.
- * Impact of Fuel Sulfur Content on Energy and Environmental Performance of Oil-Fired Boilers at the National Resources Canada-CANMET.
- * Impacts of High Use Automatic Doors on Infiltration at Pennsylvania State University.
- * Relevance of Existing Heat Pump Testing and Rating Methods to Specify a Method of Test for Engine-Driven Heat Pumps at Battelle Laboratories.
- * Selecting and Preparing a Thermal Sensation Model for Use by the Profession at Environmental Analytics.

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- * A Sensitivity Study to Determine Parameters for Floor and Ceiling Plenum Energy Models at the University of Kansas.
- * Test Method for Inorganic Acid Removal Capacity of Desiccants Used in Liquid Line Filter Driers at Imagination Resources, Inc.
- * The Effect of Processing and Air Flow Parameters on Microbial Aerosol Dispersion in Poultry Plants at Purdue University.
- * Development of a Component Model Translator for the Neutral Model Format at the Royal Institute of Technology (Sweden).
- * Development of an ASHRAE Design Guide for Cold Air Distribution Systems at Colorado State University.
- * Grease Extraction and Removal from Exhaust Air Streams of Cooking Processes at the American Gas Association Laboratories.
- * Determination of Duct Fitting Resistance by Numerical Analysis at Pennsylvania State University.
- * Energy and Demand Savings of Commercial Ground-Source Heat Pumps at Caneta Research, Inc.
- * Determination of Outdoor Weather Design Conditions with Emphasis on International Locations at Lawrence Technological University.

ASHRAE's annual meeting was attended by 1,740 persons. Its next meeting will take place January 28-February 1, 1995 in Chicago. Held in conjunction with the 1995 ASHRAE Winter Meeting

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will be the International Air-Conditioning, Heating, Refrigerating Exposition, January 30-February 1 at McCormick Place.

In a series of presentations tracing the evolution of building environment and refrigeration technologies, ASHRAE began celebration of the 100th anniversary of its founding.

"One hundred years ago, technology was considered optional," said Manning. "Electricity, the motor car and the Brooklyn Bridge were accepted as engineering marvels that you could choose to live with or without. Not today. The engineering giants of the 19th century set humanity on a journey from which there is no turning back. Today, our socio-economic structure demands reliance on technology.

"Engineers and others who harness the power of technology will hold the key to humanity's progress and survival in the 21st Century."

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NEWS

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

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Research Results Presented at ASHRAE Meeting

ORLANDO -- New findings in HVAC&R research were presented at the American Society of Heating, Refrigerating and Air-Conditioning Engineers' (ASHRAE) annual meeting held June 25-29 in Orlando, Fla.

Research results from 17 ASHRAE-sponsored projects were released on the following topics:

Refrigerants

* "Heat Transfer of R-134a in Spray Evaporators," contracted by Iowa State University (Part 1: Test Rig Description and Initial Results).

* "Solubility, Viscosity and Density Measurement of Refrigerant Lubricant Mixtures," contracted by Imagination Resources, Inc. (Part 1: Branched Acid Pentaerythritol Polyolesters with R-134a; Part 2: Polyalkylene Glycols with R-134a).

* "Shellside Condensation Heat Transfer of R-134a," contracted by Iowa State University (Part 1: Finned Tube; Part 2: Enhanced Tube; Part 3 Comparison with R-12).

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* "In-Tube Heat Transfer and Pressure Drop of R-134a and Ester Lubricant Mixtures in a Smooth Tube and a Micro-Fin Tube," contracted by Iowa State University (Part 1: Evaporation; Part 2: Condensation).

Indoor Air Quality

* "Identification and Control of Viral Aerosols in Indoor Environments," contracted by University of Minnesota.

* "A Field Test Method for Determining Exhaust Rates in Commercial Kitchen Grease Hoods," contracted by American Gas Association Laboratories.

* "Stack Effect in Tall Buildings," contracted by Morrison Herschfield Ltd.

* "Field Experiments on Occupant Comfort and Office Thermal Environments in a Hot-Humid Climate," contracted by Macquarie Park Research Ltd.

* "Spot Cooling," contracted by Technical University of Denmark (Part 1: Human Responses to Cooling with Air Jets; Part 2: Recommendations for Design of Spot Cooling Systems).

* "Evaluation of Test Methods for Determining the Effectiveness and Capacity of Gas Phase Air Filtration Equipment for Indoor Air Applications," contracted by Research Triangle Institute (Phase 1: Literature Review and Test Recommendations).

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Design Tools

* "A Toolkit for Primary HVAC System Energy Calculation," contracted by University of Liege (Part 1: Boiler Model; Part 2: Reciprocating Chiller Models).

* "Computer-Aided Design for Smoke Management in Atria and Covered Malls," contracted by University of Maryland.

Other

* "Heat Recovery Heat Pump Operating Experiences," contracted by Caneta Research Inc.

* "Time Temperature-Humidity Relations for Fresh Commodities Storage," contracted by University of Florida.

* "Low Frequency Noise Assessment Metrics - What Do We Know?" contracted by Vipac Engineers and Scientists Ltd.

* "Modeling the Solar Heat Gain Reflected from Neighboring Structures," contracted by Enermodal Engineering, Inc.

* "Equivalent Round Diameter of Spiral Flat Oval Ducts," contracted by Tennessee Technological University.

ASHRAE, founded in 1894, is an international organization of 50,000 persons. Its sole objective is to advance through research, standards writing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration for the public's benefit.

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