

VIEWPOINT

1985/86 WAS A VERY ACTIVE YEAR. STRONG MEMBERSHIP AND WELL ATTENDED ENERGY MANAGEMENT AND TECHNICAL SEMINARS PROVIDED REVENUE TO COVER EXPENDITURES. TORONTO CHAPTER IS IN GOOD FINANCIAL SHAPE. THE FOLLOWING IS THE AUDIT REPORT.

		Budget June 30/85- June 30/86	Forecast June 30/86	Actual June 30/86
Revenue				
MEMBERS FEES		27530.00	26775.00	27245.0
VISITOR MEALS		2200.00	4355.00	3902.0
MEMBERS MEALS		3800.00	6223.00	6337.0
SPECIAL EVENTS		0.00	619.22	619.0
ENERGY MGT FORUM		0.00	1235.00	1235.0
TECH SEMINAR		0.00	3507.50	3167.0
BANK INTEREST		2500.00	2585.62	3010.0
TABLE TOP		300.00	225.00	300.0
MISC		500.00	810.98	811.0
REFRIG SEMINAR		0.00	1220.00	1220.0
TOTAL REVENUE		36830.00	47556.32	47846.0
EXPENDITURES				
ADMINISTRATION		7200.00	6357.00	6960.0
SPECIAL		2200.00	538.44	700.0
MAILING		2600.00	2897.77	3200.0
STATIONERY&PRINT			1062.50	745.0
ROSTER		1000.00	977.61	978.0
GAZETTE		4500.00	5927.12	5950.0
VISITOR MEALS		2000.00	3324.00	3331.0
MEMBER MEALS B		3600.00	5436.96	5472.0
MEMBER MEALS A		10000.00	10688.00	10946.0
CHARGES BANK		75.00	360.00	360.0
SUB TOTALS		33175.00	37569.40	38642.0
BINDERS				
EDUCATION		50.00	58.75	59.0
PROGRAMME		200.00	164.90	200.0
RECEPTION		300.00	600.46	800.0
MEMBERSHIP		50.00	20.00	20.0
PUBLICITY		25.00	0.00	0.0
TECHNICAL		25.00	1206.00	1515.0
HONOURS&AWARDS		200.00	264.12	300.0
ENERGY MANAGEMENT		25.00	637.77	638.0
RESEARCH PROMOTION		200.00	200.00	200.0
CRC ASSESSMENT		1150.00	1200.00	1200.0
CRC DELEGATES		2500.00	1250.00	1400.0
MISC		1000.00	870.50	700.0
REFRIGERATION			1003.87	1004.0
SUB TOTALS		5725.00	8252.52	8036.0
TOTAL EXPENDITURES		38900.00	45821.92	44670.0
EXCESS OF REVENUE OVER EXPENDITURES		-2070.00	1734.40	1168.0
MEMBERSHIP	ACTUAL B6			
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A	105.00	94.00		
	165.00	150.00	14100.00	
B	190.00	192.00		
	65.00	60.00	11520.00	
C	35.00	33.00		
	35.00	35.00	1155.00	
FEES		26775.00	TOM KILMER	

APEO PRESIDENT SAYS ENGINEERING LEADERSHIP KEY TO CANADA'S FUTURE

Canada must improve upon its present ninth ranking in technology among OECD nations if we are to maintain our current high standard of living. And engineers must assume more and higher profile leadership positions if this improvement is to occur.

These opinions were presented forcefully and enthusiastically at the Decemberfest meeting by Claudette MacKay-Lassonde, President of the APEO.

Noting that in the past Canada's prosperity derived primarily from the exploitation of its *large quantities* of natural resources, the speaker contended that *high quality* in goods and services will be the key to competitiveness in the future.

But how can we improve our technological ranking to prepare for this future? Ms MacKay-Lassonde offered a three-part prescription.

Firstly, Canadians must overcome their technological timidity. She argued that engineers must demystify technology for the public by talking about technology, at every opportunity, in everyday language. However, in order to get this message to the public, engineers must be willing to assume more leadership roles.

This led into Ms MacKay-Lassonde's second suggestion that engineers must enlarge the role they play in society. She remarked that in Japan half of the civil servants, half of the industrial directors, and more than 65 percent of all corporate board members are engineers or scientists. The speaker called for Canadian engineers to seek leadership positions that go beyond the purely technical, including political office. From these positions she suggested that engineers could champion government support of research and development.

Ms MacKay-Lassonde advised that practising engineers as well as students presently in engineering schools should extend their range of skills to include an increased emphasis on economics, communication skills, and a general background in humanities and social sciences.

The speaker's last point was that Canadians must learn to exploit their technological strengths and correct their technological weaknesses. Among these strengths, she listed tunnel, cold-climate, and telecommunications technologies, while weaknesses included our "antiquated assembly-parts manufacturing processes."

Ms MacKay-Lassonde called, predictably, for the increased use of robotics and CAD-CAM systems but then went further to stress the need to *market* our excellence more imaginatively and aggressively. "It's not enough just to have a good — or even the best — product anymore. People have to *know* it's the best!"

John Bachmann
Publicity Committee



Chapter President Cliff Thompson (left) with our Decemberfest Evening Speaker Claudette MacKay-Lassonde, (right) President, Association of Professional Engineers of Ontario (APEO).

DECEMBERFEST

At this year's Decemberfest we were especially honoured by the presence of ASHRAE Society President Fred Kohloss and his wife Peggy. The meeting was well attended by many guests and spouses, too numerous to list. We would like to extend our thanks to all.



Mrs. & Mrs. Norm Johnson



Mr. & Mrs. Ed Stumborg



Mr. & Mrs. Jules Olsen

CURLING IN REVIEW

The Curling Bonspiel was a great success. Altogether, there were 30 in attendance and 24 remained for dinner.

THIS YEARS WINNERS



Chapter President Cliff Thompson presented the first place trophy to the winning team. (Left to Right) Norm Morrison, Pres. Cliff Thompson, Joe Evanoff, Bob Mansfield, and Lloyd Geake.

Honourable mention is given to the runner up team: Howie French, Bob Bach, Herb Maybank and Byron Weckman

JOHN ALLINGHAM IN ACTION!



First Announcement

ENERGY FORUM



A Conference Promoting
Energy Efficiency In
Residential Buildings
for Ontario

March 12-13, 1987

Toronto, Ontario, Canada

NOMINATED TO SERVE ON THE NOMINATING COMMITTEE

Elections will be held at the January meeting for the 1987 Nominating Committee. The nominees are: Don McCurdy, Jack Field, David Underwood, and Bill Hawkins. Ex-officio member: Jim Ovens.



50 YEAR MEMBER

Allan T. Jones (left) was honoured at the Decemberfest meeting with the presentation of his 50 year Life Member Award by Society President Fred Kohloss (right).

PRICES QUOTED IN
U.S. FUNDS

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



Lapel button
or tie tac \$21.50



Tie bar 10.75



Key 9.50

ASHRAE jewelry is available to members only. Identify yourself as a member! Use this convenient form to place your order.

Check item, or items, desired and enclose check or money-order to cover total cost.

Jewelry is 10kt gold with blue enamel insets, except the tie bar, which is rolled gold.

Items are illustrated full size.

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RECENT REPORTS

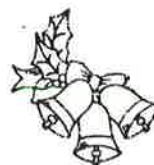
Optimization of the "Kool-Line" Heat Pump, prepared by Ontario Hydro Research Division for the Canadian Electrical Association (CEA No. 220-U-360) Finally a heating system both the Gas and Electric Utilities can back! It's a heat pump with gas-fired defrost most of the time and a condensing gas furnace during the coldest parts of the winter. Residential and commercial (roof-top) units are available.

YOUR 1986/87 BOARD OF GOVERNORS

Bob Bach	Past President
Cliff Thompson	President
Jim Ovens	President-Elect
Howard Wheatley	Vice President
Tom Kilmer	Secretary
Dieter Heins	Treasurer
Dale Struthers	Member
Roy Chaffey	Member
Bill Bingham	Member
John Hodge	Member
Tom Tamblyn	Member
Ron Anderson	Member

MEETING DATES 1986 - 87

January 5	Comparison of the Candu and Chernobyl Reactors Speaker: Dr. Tom Drolet
February 2	"R" In ASHRAE Seminar
March 2	Technical Session HVAC in the Queen's Quay Terminal Building Speaker: Lorne Mitchell
May 4	Inauguration of the 1987-88 Toronto Chapter Executive



**SEASONS GREETINGS AND
BEST WISHES FOR THE NEW YEAR**

**LISTED BELOW ARE YOUR 1986/87
SEASON COMMITTEE CHAIRMEN**

Energy Management	Dean Jordan	592-3823
Finance	Mike Premovic	245-1100
Research Promotion	Herb Maybank	271-1362
Special Events	Randy Chew	291-9648
Membership	Joe English	851-3981
Education	Ed Cassidy	251-4151
Technical (R & T)	Ian Patterson	494-1575
Program (Papers)	Doug Taylor	222-2571
Publicity	Frank Lenarduzzi	231-4111
Reception	Jack Field	592-2194
Honours and Awards	Bob Bach	279-3440
CRC Action	Cliff Thompson	293-8111
"R" in ASHRAE	Jim Pyper	(519) 759-3010
Attendance	Jim Ovens	479-0280
Constitution & Bylaws	Howard Wheatley	744-3300
Past Presidents		
Advisory	Howard Wheatley	744-3300
Roster Committee	Tom Kilmer	251-4151
Historical Committee	Herb Maybank	271-1362

Toronto ASHRAE Gazette is published monthly by the Toronto Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers in the interest of its members.

Toronto Chapter Executive offices are located at:

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ASHRAE

GAZETTE

TORONTO



Toronto Chapter American Society of Heating, Refrigerating and Air-Conditioning Engineers

1922

SIXTY-FIFTH ANNIVERSARY YEAR

1987

VOL. 32, NO. 4

JANUARY, 1987

TORONTO

**MESSAGES FROM
THE EDUCATION COMMITTEE**

- The Education Committee would like to remind all student branch members that the due date for this year's student paper competition is Friday, May 1st, 1987. We will be awarding the Lynn Dudley Bursary Award of \$1000.00 to the author of the best paper. Please contact your faculty advisor for more details.
- We would like to remind everyone that Seneca College is offering a six subject program designed to upgrade the skills of those in our industry. The Building Environmental Design certificate courses start January 12th, 1987. For further information, please contact Seneca College at 493-4144.
- The Toronto Chapter of ASHRAE now has available two videotapes of technical presentations which were made at the last two Society meetings. The tapes can be borrowed for use at a Chapter function. If you have a particular time that you wish to show one, please contact Ed Cassidy.

The available tapes cover the following topics:

- 1) a) "Optimal Control Strategies for HVAC System" by John W. Mitchell.
b) "VAV Duct Design" by Joseph D. Becker
- 2) a) "Cold Air Systems" by Calvin D. MacCracken.
b) "Ventilation Requirement in Hospital Operating Rooms - Control of Airborne Particles and Energy and Economic Implications" by Jones D. Woods, Ph.D.
c) "Specifying Commissioning for Building HVAC System" by Guy W. Gupton, Jr., P.E.

Please Note: The tapes are available on a first come basis.
Ed Cassidy, Chairman Education Committee

Notice of Meeting

MONDAY, JANUARY 5, 1987
PARK PLAZA HOTEL - TORONTO

HOSPITALITY: 5:30 P.M.
DINNER MEETING: 6:30 P.M.



EVENING SPEAKER

DR. TOM DROLET
ONTARIO HYDRO

'COMPARISON OF
THE CANDU
AND CHERNOBYL
REACTORS'

Tom was born in Ottawa and educated at the Royal Military College of Canada (Chemical Engineering) and the University of London England (MSc and PhD in Nuclear Engineering). Tom flew with the 436 Transport squadron on Hercules aircraft for three years in most foreign theatres.

He has been with Ontario Hydro since 1969 and has worked in Research, Nuclear Operations at Douglas Point and Pickering, and in the Engineering function as Manager of Nuclear Materials Management Dept. In 1982, Tom formed the Canadian Fusion Fuels Technology Project which is one of Canada's two projects in the area of energy from fusion. In July, 1986, he moved to New Business Ventures Division to head up the Isotope Sales and Services Program.

Tom's wide experience with the CANDU Nuclear Program, and his recent visits to the Soviet Union in order to put proposals together on co-operative work between the Soviet Union and Canadian nuclear power programs, will form the basis of a wide ranging talk on the safety of nuclear power placed in a world context.

***** ADVANCE NOTICE *****

NIGHT AT THE RACES
MONDAY, MARCH 16, 1987



GREENWOOD RACEWAY
1669 QUEEN STREET EAST
(between Coxwell & Woodbine)

FOR TICKETS, CONTACT: Dan Zalepa - 291-7186
Randy Chew - 291-9648

YOUR DECEMBERFEST HEAD TABLE



*Left: President-Elect Jim Ovens
Right: Mary Maybank*



*Left: Society President Fred Kohloss
Right: Joan Thompson*



Left to Right: Joyce Ovens, Vice-President Howard Wheatley, and Mommessin Export.



*Left: Herb Maybank, Chairman of both Historical and Research Promotion Committees, and Decemberfest recipient of his Life Member Award.
Right: Peggy Kohloss.*

**PAST PRESIDENTS AND LIFE MEMBERS
IN ATTENDANCE AT DECEMBERFEST '86**

- Earl D. Allen, (PP)
- Donald L. Angus (PP & LM)
- William W. Bartlett (LM)
- Howard P. Bushnell (LM)
- Robert B. Campbell (LM)
- William H. Chadwick (PP)
- Lynn M. Dudley (LM)
- W.T.E. (Dunc) Duncan (LM)
- Stanley L.V. Fisher (LM)
- John H. Fox (PP, LM & 50 Year Member)
- Howard S. French (PP)
- Hans Gold (LM)
- George G. Hughson (PP)
- Norman W. Johnson (PP)
- Allan T. Jones (LM & 50 Year Member)
- R.J. Wesley Martin (LM)
- Herbert A.G. Maybank (PP & LM)
- Donald H. McCurdy (PP)
- Jules C. Olsen (PP)
- Edward A. Stumborg (PP)
- Donald B. Thomas (LM)
- Charles L. Torry (PP & LM)
- (PP) - Past President

(LM) - Life Member



*Left: Doug Taylor, Chairman of the Program Committee, Decemberfest Host Committee.
Right: Shirley Wheatley, who was later heard to say "sitting next to Doug was a tough job ... even for a woman."*

"R" IN ASHRAE SEMINAR

MONDAY, FEBRUARY 2, 1987, 1:00 P.M. TO 5:00 P.M.

GOLD ROOM, PARK PLAZA HOTEL

OUR THEME —

'THE APPLICATION OF NEW TECHNOLOGY TO REFRIGERATION'

TOPICS & SPEAKERS

(1) Control and Monitoring of Industrial Refrigeration Systems

Speaker — Mr. Derek Lunn,
Cimco Division of Toromont Industries

(2) The Altronics Solid State Expansion Valve

Speaker — Mr. Bob Lewis,
Altech Controls

(3) Electronic Regulation of Industrial Refrigeration Controls

Speaker — Mr. Art Strong,
Refrigerating Specialties Division of Parker Corporation

FEE:

MEMBER: \$30.00

NON-MEMBER: \$35.00

STUDENT: \$10.00

PRE-REGISTRATION

TEAR OFF AT DOTTED LINE AND MAIL WITH CHEQUE TO:

ASHRAE TORONTO CHAPTER
c/o CHIL-CON PRODUCTS LTD.
P.O. BOX 1385
BRANTFORD, ONTARIO N3T 5T6

NAME _____

MEMBER

COMPANY _____

NON-MEMBER

STUDENT