

Viewpoint

ASHRAE Viewpoint of Meetings and Attendance

We, as members of The American Society of Heating, Refrigerating and Air Conditioning Engineers, often forget that we are more than just members of this distinct society.

We ARE the society and we should not forget this simple fact. If one were to go to the dictionary for a suitable meaning of the word **Society**, we would find one that is applicable to us in: "an association of persons for some purpose". That purpose, as outlined at the beginning of our handbook of fundamentals, is "Dedicated to the advancement of the profession and its allied industries."

It would appear that we are certainly accomplishing that particular purpose, but we must not become complacent! Traditionally, at the chapter level, we tend to overload a small minority of our regular members. Our argument for doing this is that we are afraid to volunteer or we have done it before and now sluff it off on someone else. We are always in need of dedicated volunteers.

The main reason our society exists and has been so successful is because of the assistance and instruction we give to people who design and engineer mechanical products and systems. Our handbooks and manuals are recognized and used around the world.

This is not the sole reason for our existence! We are a collection of people with diverse talents and personalities, grouped together to make sure we advance the profession and our industry.

We should not, however, lose sight of the major reason chapters are formed, and that is to foster companionship and social activity with one's peers.

All of the above can be accomplished by attendance and since we will have a new location for our next meeting, let's see the old and new members out in numbers that will astound the banquet manager at Novatel.

Al Irving
B.O.G. Rep.

Table Top Rules for 1989-90

This year again the presentations will be confined to the table or booth. Here are the Table Top Rules for 1989-90.

1. Price: \$175.00.
2. The Chapter provides space for a small booth, and/or a table, nicely draped, to hold literature and demo equipment. (No Chillers.)
3. Program Committee will ensure an article, submitted by the Table Top client, is printed in the Gazette in time for the relevant Chapter meeting.

For further information, call Jim Baxter at 495-5707.

Guests Attending November Meeting

Workshop:

Dan Wallace	Packard Maintenance
Ken Dobbin	Packard Maintenance
Dave Hiller	MCW
Dara Blesanie	EBE
William MacGowan	Energy
Dave Kimber	Honeywell
Jim Roberts	Honeywell
Edmund Athaide	Northern Air
Ken Price	Black & McDonald
Urs Schenk	Nortec
Emmanuel "Noel" Antonia	Kilmer Environmental
Brendan Lenko	Ontario Hydro
Douglas Emery	Landis & Gyrpowers
Jim Kimble	Kilmer Environmental
Scott C. Dean	Thermal Technics
Gord Fisher	B.C.V.L.
John Dunford	C.W. O'Dell
John Dunford	D/L Ont. Fic.

Dinner Meeting:

Michael Ourliruy	Jat Vent
Tom Payne	McAtchy Robinson
Ros Hogsden	KDH
Jamie McMillan	KDH
Bob Rocheforte	KDH
Mike Zachev	KDH
Wayne Hachey	Terval
Steve Clayman	Knauf Fiberglass
John Atkinson	Uniform
Doug Close	Thermal Technics
Roger Alderson	Windeler
Sjef Basemans	AAF Canada
Kel Finch	Vibrasonic
Derek Johnston	Air Vector
Michael Rotier	Beaver Engineering
Rick Paterson	Jenkinson & Co. Ltd.
John Studd	

Next Deadline

Members of the board of Governors, Committee Chairmen and members and any other Chapter members wishing to submit material for the December Gazette are reminded that the deadline for the next issue is 4:00 p.m. Wednesday, December 8th. Please forward your submissions to Doug Taylor or Mike Loughry. Handwritten or typed faxed or delivered all news is welcome.

Thermal Cool Storage Heating Up Toronto Market

Thermal cool storage has been in the Toronto commercial market for over twenty years. However, more projects using thermal storage are expected to be initiated over the next 10 years than all previously completed thermal storage projects. The reason for this is two-fold; the marketplace is becoming more competitive and demanding, and secondly, Ontario Hydro and some Utilities are offering support for buildings that use thermal storage.

Thermal storage shifts cooling demand from peak cooling periods occurring during normal business hours to later in the day or at night when a building's peak demand is low and a new peak demand (for billing purposes) will not be set.

In Toronto, some 5 thermal storage projects are now in various stages of completion. These projects will reduce Ontario Hydro's peak by about 3200 kW, enough to supply almost 500 electric homes. More important to those who implemented these projects is the savings they'll see in their energy bills, enough to bring paybacks on the system less than 5 years.

The technology of thermal storage has improved dramatically over the last five years. Most of the improvements have come out of the U.S. where much higher electricity costs and time-of-use rates are commonplace. Whereas earlier systems exclusively used water to store cooling capacity, now ice is being used more extensively as well as some other storage media.

There are now at least 8 thermal storage firms operating in Canada, either independently or with one of the large cooling companies already in the market. The number of thermal storage suppliers is expected to increase as new firms start up and more of the 35 plus companies operating in the United States set up in Canada.

People in Canada still have some doubt about the viability of thermal storage. The 5 projects currently in progress in Ontario could be referred to as pioneer developments in this technology, but they are only pioneers from an economic point of view; the technology has already proven itself south of the border and around the world.

Most of the design community involved with thermal storage is now aware of the financial incentives Ontario Hydro is offering for thermal storage projects. It is intended that these incentives are enough to bring down the payback period for such projects to a time-frame that is acceptable to the developers of these projects. The program was initiated January 1, 1989 and response so far has been well above expectations.

Here's the process. A developer/owner approaches Ontario Hydro (usually through their consultant) to discuss whether thermal storage is a viable alternative for their upcoming project. If it appears reasonable at this point, Ontario Hydro will finance 50% of the cost of a feasibility study (up to \$50,000) to determine if thermal storage will fit the project. The consulting engineer then compares the conventional system with the thermal storage alternative. Ontario Hydro calculates system benefit as a result of the load shift, and the dollar value of the incentive. Once the project is complete a cheque is forwarded to the customer.

The forces driving thermal storage are now well beyond Ontario Hydro's marketing staff. There were of course many engineers out there who had already utilized thermal storage in some of their projects. Then there are the other engineering firms who may have only recently started considering thermal storage and may soon see one of their projects go with thermal storage in many of their new projects. Evi-

dence for this is the fact that not only are the traditional large office complexes being considered for thermal storage but now we see proposals involving hotels, schools, shopping malls and industrial plants to mention only a few.

Another force driving thermal storage has been the cooperation of municipal utilities. Mississauga and Etobicoke Hydro now have time-of-use rates in place for buildings using thermal storage. Toronto Hydro is also proposing to have time-of-use rates in place January 1, 1990 for all customers over 2,500 kW. These rates will make thermal storage even more attractive from an operating cost point of view.

Cold air distribution is also now being recognized as a method of reducing payback periods while improving the comfort level of the buildings. In fact many thermal storage projects in the U.S. are said to be going in at equivalent capital cost with conventional systems because of the addition of cold air distribution. Also, because cooling costs are lower more fresh air can be brought into the building overcoming the increasing indoor air quality concerns of tenants.

Thermal storage is more and more becoming the system of choice for high quality commercial development. Increased comfort for tenants and reduced operating costs will make these buildings more attractive in the future. Financial assistance from Ontario Hydro is helping to reduce the capital costs and time-of-use rates from utilities is reducing operating costs. All this points to a win-win situation for all involved. What is today considered a state-of-the-art system may someday soon be the norm for commercial HVAC design.

Doug Taylor



Barry Wilhelm announcing the annual Curling Bonspiel.



Cliff Thompson receiving an award for Research Fund Raising from Bill Chadwick Region II Research Promotion Vice-Chairman.

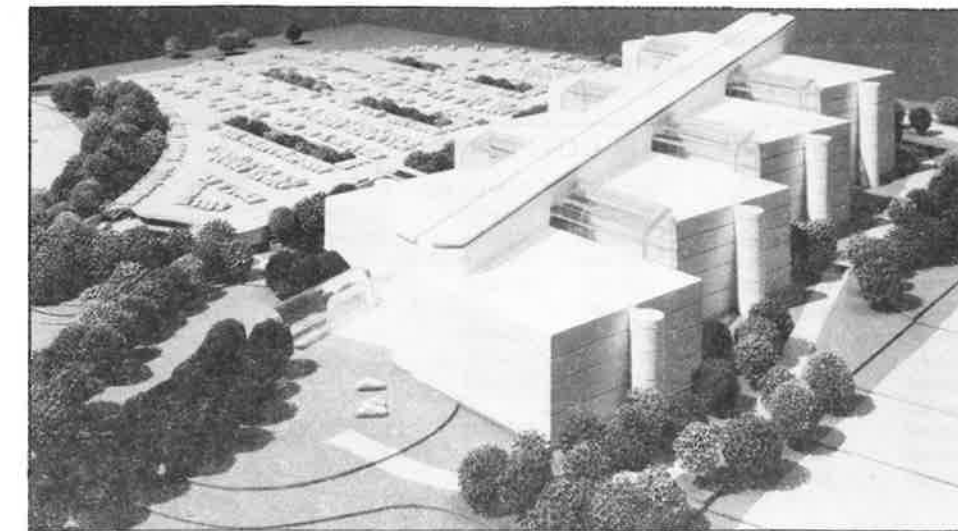
Gazette

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:

5468 Dundas Street West, Suite 308
Etobicoke, Ontario M9B 6E3
Telephone: (416) 239-8193

Statements made in this publication are not the expression of the Society or of the Chapter and may be reproduced without special permission.



The new IBM Canada Ltd. building which is now under construction at 3600 Steeles Avenue East in Markham employs an Ice Storage System.

Welcome New Members

The Toronto Chapter offers a hearty welcome to all new ASHRAE members. A group of twenty-five join our ranks and will soon enjoy the benefits of Chapter membership. As with all organizations the initial experiences can largely determine the individual's opinion of the group and its members. Existing Chapter members are urged to make an effort to seek out these new members and ensure they feel at home. New members in turn are encouraged to join committees, attend seminars and generally get involved. Participation benefits the individual as well as the Chapter and Society.

Toronto Chapter New Members 1989/1990			
Greg Allen	Allen Associates	Sinclair Cheung	FEL Consultants Ltd.
Frank Talbot	Lunkenheimer Tubercraft Ltd.	John Matheson	Leslie Bros. Inc.
Thomas Heritage	Dearie Martino	David Carpenter	Canadian Blower/Canada Pumps
Edward Carney	Kilmer	John Horvath	Epsilon Technologies Ltd.
John Samson	Environmental Marley Cooling Towers	Coby Sucher	ANREP Associates Ltd.
Mario Chiarelli	Ontario Hydro	John Cowan	Cowan Quality Buildings
Bogdan Golawski	H.H. Angus and Associates	Elyahu Avidor	Profession Loss Control Ltd.
Danny Vistoli	York Air Conditioning	Bruno Benedetti	Unilux Mfg. Co. Ltd.
Richard Paterson	Beaver Engineering Ltd.	Timothy Muldoon	Marley Canadian Cooling Towers
Hasmukhal Amin	H & K Engineering Inc.	David Barrett	Medhurst Hogg Sobattka & Associates
Warren Kelly	B.V.A. Systems Ltd.	Brent Bailey	ICG Utilities
John Chmielewski	B.V.A. Systems Ltd.		
Michael Chasler	H.H. Angus & Associates Ltd.		
M. Iusi	Engineering Interface Ltd.		

Membership

Please take note of the enclosed bulletin regarding ASHRAE membership. We often take for granted our ASHRAE affiliations; here's a chance to extend the benefits of membership to others. Also consider upgrading your membership. As an added challenge see if you can find the spelling mistake in the enclosure - a test to see if you actually read what you see!

Post This Gazette

Do you work in an office where fellow workers who do not receive the Gazette may be interested in the information and announcements found on these pages? Then, could you do them and your Toronto Chapter a favour by posting the Gazette on a central bulletin board? Your cooperation in promoting Chapter and Society activities in this way will be greatly appreciated.



Tom West presents Tom Kilmer with an Award for Membership.

1989-90 BOARD OF GOVERNORS

		BUSINESS	RESIDENCE	FAX
Past President	Howard Wheatley	744-3300	238-0087	744-3360
President	Tom Kilmer	890-8908	877-0707	890-8915
President - Elect	Dieter Heins	592-3846	244-3606	592-8761
Vice President	Roy Chaffey	675-3111	877-8546	
Secretary	Ray Repo	495-5407		
Treasurer	Cedric Smith	396-7309	265-0668	396-4266
Governor	Al Irving	744-3300	873-1521	
Governor	Bill Fines	487-8151	833-5331	
Governor	Bill Bartlett	293-3243		
Governor	Jack Field	592-2194	223-0149	592-8761
Governor	Harold Libby	454-2040		454-8206
Governor	John Hodge	592-5066	284-9984	592-8761

COMMITTEE CHAIRMEN

		BUSINESS	RESIDENCE	FAX
Education and Chapter Programs	Jim Baxter	495-5707	294-5756	495-8350
Energy and Technical Affairs	Len Fox	733-1600	820-3031	
Finance	Mike Premovic	826-9508	233-088	826-2349
Government Affairs	Roy Chaffey	675-3111	877-8546	
Historical	TBA			
Membership Promotion	Eric Pay	222-2571	439-2074	
Publicity and Gazette	Mike Loughry	443-8283	445-3918	443-8290
Reception	Richard Manuel	499-4822	898-2566	
Research Promotion	Jim Owens	492-2602	291-6874	492-2626
Roster	Roy Chaffey	675-3111	877-8546	
"R" in ASHRAE	Bill Hunter	243-9300	222-8611	
Special Events	Barry Willhelm	456-3432	625-3604	



Toronto Chapter Gazette

Bulletin Board
Lovers

Vol. 35 No. 3

Our 67th Year

December 1989

Notice of Meeting

DECEMBERFEST

Monday, December 9th, 1989

Novatel Hotel

Hospitality:	5:30 p.m.
Dinner Meeting:	6:30 p.m.
"B" and "C" Plan Members:	\$30.00
Guests:	\$33.00
Student Meal Cost:	\$10.00
(Paid up ASHRAE Student Members Only)	

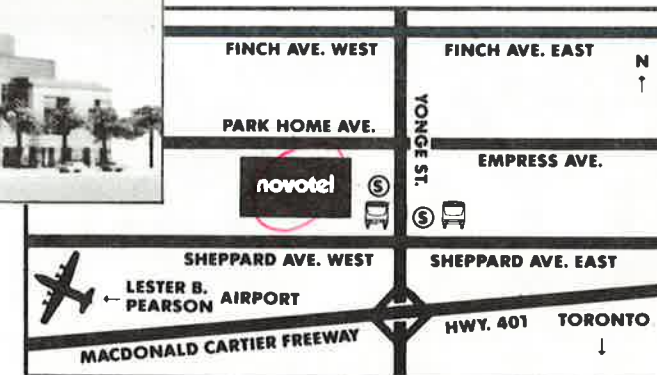
NOVATEL

Toronto Chapter Meeting Moves to the City with Heart

The December meeting ushers in a new era in the history of the Toronto Chapter of ASHRAE. The meetings from this point onward will be held in the Gibson Ballroom of the Novatel Hotel, at 3 Park Home Avenue, North York. This new facility promises everything the Chapter

could need, including parking for \$1.50 after 6:00 p.m.

All members are encouraged to come out and see the new home of our monthly meetings and enjoy what promises to be a very interesting Decemberfest meeting.



The site of ASHRAE Toronto Chapter Meetings
Novatel Hotel North York

3 Park Home Avenue at the North York Centre Subway Station