



# Airways

**Hamilton Chapter No. 037**

American Society of Heating, Refrigeration and Air Conditioning Engineers

Volume 43, No.8

Our 43rd Year

April 2002

**President**

George Robb P.Eng.  
Phone (519) 885-2858  
gjrobb@golden.net

**President Elect**

**Secretary**

Chris McClelland  
Phone (905) 572-1111  
rboyko@netcom.ca

**Treasurer**

John Pollock  
Phone (905) 304-1788  
sales@enviro-tech-hvac.com

**Assistant Treasurer**

Al Curzon  
Phone (905) 641-4869  
al.curzon@cgc.enbridge.com

**Research Chair**

Ed Cazzola P.Eng.  
Phone (905) 523-1988  
ecazzola@sentex.net

**Assistant Research Chair**

John Pollock  
Phone (905) 304-1788  
sales@enviro-tech-hvac.com

**Membership Chair**

George Menzies P.Eng.  
Phone (905) 388-1313  
gmenzies@attcanada.ca

**Student Activities Co-Chairs**

Darryl Singleton  
Phone (905) 545-5479  
darryls@aquatech.ws  
Chris McClelland  
Phone (905) 572-1111  
rboyko@netcom.ca

**Programs Chair**

Dave Stacey P.Eng.  
dave@peneng.com

**Assistant Programs Chair**

Rob Boyko  
rboyko@netcom.ca

**Historian**

George Menzies P.Eng.  
Phone (905) 388-1313  
gmenzies@attcanada.ca

**T.E.G.A.**

Steve Glover  
(905) 335-3325  
steve.e.glover@jci.com

**Social Chair**

David Rasmussen  
Phone (905) 575-5542  
drasmussen  
@delhi-industries.com

**Newsletter Editor/Webmaster**

Brian Beninger P.Eng.  
Phone (905) 563-3221  
Fax (905) 563-7123  
brian@beninger.ca

Tuesday April 9, 2002

To Be Announced ....

Unfortunately the speaker that was booked for this evening has had to cancel because of business reasons. Please check your email the weekend of April 6, 2002 for your regular monthly meeting reminder. I'll include information regarding tonight's program at that time.

*Brian Beninger,*  
*Airways Editor*

## Chapter History

**Hamilton Chapter Charter Member:  
Gary E. Elliott P.Eng.  
Historical Bio**

Gary is one of the Charter Members of the Hamilton Chapter. The Chapter was chartered as the Niagara Peninsula Chapter, October 22nd, 1959 with meetings held at the Fisher Hotel. Gary has been a faithful chapter and Society Member for 43 years and is now a "Life Member" of the Society.

Gary graduated from Queens University in Mechanical Engineering in 1954 and along with another six classmates, went to work with Honeywell Controls in the Commercial Sales Group at the going salary of \$100.00 per week. The job consisted of calling on consulting engineers and doing take-offs and quotes for the controls subcontract to mechanical contractors.

In 1957, Gary joined H.K.Walter Associates which grew into Walter Eull & Elliott in 1960 and Group Eight Engineering in 1974. Visit their website at [group8eng.com](http://group8eng.com) for see what Group 8 is currently designing – a very informative site.




**Royal Hamilton Yacht Club**  
**North End of McNab, On Hamilton Harbour**

**NEW THIS YEAR!!**

**5:00 PM Social Hour & Technical Session**  
**6:00 PM Dinner & Business Meeting**  
**7:00 PM Technical Program / Speaker Presentation**

Chapter Members \$ 25.00 • Guests \$ 30.00 • Students \$ 20.00 • Meal Plan \$ 110.00




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e-mail: [rkosir@vaxxine.com](mailto:rkosir@vaxxine.com)

Brian L. Beninger P.Eng. M.Sc.



Beninger Engineering

Beninger Engineering Limited  
4356 Lincoln Avenue  
Beamsville, Ontario L0R 1B2  
Phone: 905 563-3221  
Fax: 905 563-7123  
Email: [brian@beninger.ca](mailto:brian@beninger.ca)  
Web Site: [www.beninger.ca](http://www.beninger.ca)

Now for some interesting chapter history which Gary has helped me develop. Back in 1958, Lloyd Algie, an ASHRAE Toronto Chapter Member came to Hamilton to work for Hoffman Bros. selling air conditioning equipment. Lloyd was aware of the benefits of an ASHRAE chapter operation and started promoting the idea of a local ASHRAE chapter. With 20 members you could petition for a charter. Well Hamilton had the numbers. The first meeting consisted of Lloyd Algie, Don Harper, Bill Carr, Jim Mitchell, Lou Sentesy, Bob Brace and Gary Elliott. Lloyd became the inaugural President, and the remaining offices were filled by drawing numbers. Gary drew the Vice-President position. Other members who were active in the initial years were Mike Murray, Doug McCoppen and Frank Caldwell.

The first picture in our Chapter historical photo archives is Lloyd and Gary holding the chapter charter dated October 22nd, 1959 in front of the original ASHRAE chapter banner. The next picture of interest in this album occurred during one of the first outings by the chapter – a trip to the ASHRAE Meeting in Chicago. Ron Weston a local sports store operator had a key to the notorious Playboy Club in downtown Chicago which was borrowed. Hence, the picture of Gary sitting with a Playboy Bunny – who said engineers couldn't have fun... The event of the evening was Bob Brace pulling on the Bunnies' tails, which brought Gary and the group close to eviction.

Gary served as Chapter President in '60-'61 and has been featured on technical panels over the years. Gary continues to be active in the chapter, largely because the meetings are held the same night as Group Eight Engineering Limited Directors' Meetings. Now that he is no longer a Director and "mostly retired", Gary is looking forward again to participating in chapter meetings and keeping up-to date with the latest designs.

Gary is also an avid skier and with another Past-President Jim Buchanan, can be regularly found on the slopes at Ellicottville where they both have a chalet.

Both Gary and I agree that ASHRAE has been one of the strongest technical organizations for its members and it continues to be a valuable source of new information and education for those of us in the HVAC business.

*George Menzies, Hamilton Chapter Historian 01/02*

## Code Corner

### CSA B214

Canada has a new installation code for hydronic heating- CSA B214. It covers definitions, heat loss and design conditions, different types of hydronic heating, piping and components and more. It was prepared by various hydronic councils and CIPH.

This will be up for public review in the fall of 2002 and has been submitted to the National Building Code Committee for review and reference in the 2003 code.

For more information, contact CIPH, CSA.

### ASSE 1016 AND 1017

ASSE is the American Society of Sanitary Engineers. Today's topic deals primarily with domestic hot water and the fact that water heaters are normally set to temperatures above 125 F to prevent development of harmful bacteria, such as legionella. Therefore mixing valves are required to prevent scalding. \*The two applicable codes are ASSE 1016 and ASSE 1017.

ASSE 1017 is a standard developed to provide minimum requirements for the performance of a thermostatic master mixing valve. It concerns itself with valves used at the source of hot water for distribution to the supply system. However, these devices should never be used to deliver water to the user. It does not address final temperature control at fixtures and appliances.

ASSE 1016 covers the delivery of water at the individual fixtures that are adjusted and controlled by the user. It addresses very precise and immediate temperature regulation requirements and covers pressure balanced, thermostatic and combination valves. Although it was written as a shower standard, it is relevant to all fixtures where domestic hot water comes in contact with people.

It is important to note that although many ASSE 1016 valves will allow flow rates in excess of 10 gpm, the rule is one valve per fixture.

\* Although these valves were developed to prevent scalding, primarily ASSE 1016 valves, to call them "anti-scale" valves is a misnomer, as the standard does not refer to them as anti-scale devices.

1. From information published by Watts/Powers

## ASHRAE Research

Many of you have recently received the following letter in the mail but I would like to repeat it here as a reminder and for those who would care to contribute to a noble and worthy cause - ASHRAE Research Canada. We would greatly appreciate your support. We would also like to formally thank our contributors from last year listed in the attachment below on the night of the meeting, so if you are able to attend, please come out to receive a small token of appreciation.

Dear Members and Colleagues,

Your past contributions to ASHRAE Research have been greatly appreciated. Your support has helped ASHRAE to continue promoting and sponsoring groundbreaking research in the HVAC field. There are 99 active projects underway at the present time. Of these, 7 are in Canada.

The research we do today will be the new technology tomorrow. The new technology developed will be used to write the next standards and to rewrite the chapters of the ASHRAE handbook. These standards and handbooks will then direct your future projects through new designs, product lines, methods of installation and the cost of owning and operating. It benefits all our careers.

ASHRAE technical committees continue to identify gaps in our knowledge and develop new proposals for research projects. We need your support to implement those research programs. To maintain current research commitments, ASHRAE Research needs to raise about \$1.75 million each year. All of those dollars come from contributions made by individuals and companies who recognise the value of ASHRAE Research. We want to count you in.

Your past investments have helped to make a difference. But the needs continue to grow. I encourage you to renew your investment or consider a first contribution to ASHRAE Research. You can send your cheque to me at the address below or see me on the night of the meeting, so that I can pass it along to ASHRAE

with the appropriate paperwork to ensure you get credit.

If you have any questions, please call me at (905) 523-1988.

Thank you in advance for your recognition of the importance of ASHRAE Research.

Yours sincerely,

Ed Cazzola, P.Eng.  
Research Promotion Chair  
ASHRAE Hamilton Chapter  
c/o Atkinson Engineering Inc.  
786 King Street East  
Hamilton, Ontario  
L8M 1A6

*Ed Cazzola, Hamilton Chapter Research Chair 01/02*

## *ASHRAE Annual Golf Tournament*

The FIRST golf notice in last month's AIRWAYS has proved to be beneficial. We are limited to 88 golfers and have received confirmation from over half !

I URGE you not to delay. This month I have included the Registration Form for completion. For those of you who have sent me a written reply to attend, if you know your 2 some or foursome, please complete the form and send it off to me. For those of you still pondering ..... Don't make me have to turn you down. Complete the attached Registration Form and Fax or E Mail it to me TODAY.

*David Rasmussen,  
Hamilton Chapter Social Chair 01/02*

# Research

## Hamilton Chapter No. 037

American Society of Heating, Refrigeration and Air Conditioning Engineers

2000 - 2001 Research Campaign Report

November 2001

### President

George Robb  
Phone (519) 885-2858  
gjrobb@golden.net

### Secretary

Chris McLelland  
Phone (905) 572-1111

### Treasurers

John Pollock  
Phone (905) 304-1788  
Al Curzon  
Phone (905) 641-4869  
al.curzon@cgc.enbridge.com

### Research Chair

Ed Cazzola  
Phone (905) 523-1988  
ecazzola@sentex.net

### Membership Chair

Steven Hey  
Phone (905) 662-1138  
steveh@htseng.com

### Student Activities Co-Chairs

Darryl Singleton  
Phone (905) 545-5479  
drboiler@vaxxine.com  
Chris McLelland  
Phone (905) 572-1111

### Programs Chair

Dave Stacey  
Dave@peneng.com

### Historian

George Menzies  
Phone (905) 388-1313  
gmenzies@netcom.ca

### T.E.G.A.

Steve Glover  
Phone(905) 635-3325  
Steve.e.glover@jci.com

### Social Chair

David Rasmussen  
Phone (905) 575-5542  
drasmussen  
@delhi-industries.com

### Newsletter Editor/Webmaster

Brian Beninger  
Phone (905) 563-3221  
Fax (905) 563-7123  
beninger@vaxxine.com

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Heco Ltd.

## Upcoming Events of Interest

### **RSES 2002 Conference April 17 – 21, 2002**

The Refrigeration Service Engineers Society (RSES) of Canada is holding its 63rd annual educational conference at the Delta Winnipeg Hotel in Winnipeg Manitoba. For more information contact Garry MacKenzie at Phone (204) 256-4589 or visit [www.rses.ca](http://www.rses.ca)

### **CIPHEX West April 18 – 19, 2002**

The Canadian Institute of Plumbing and Heating (CIPH) is presenting CIPHEX West at the Roundup Centre in Stampede Park in Calgary Alberta. For information contact CIPH at Phone (416) 695-0447 or fax (416) 695-0450, or e-mail at [mccullough@ciph.com](mailto:mccullough@ciph.com) or [www.ciphex2002.com](http://www.ciphex2002.com)

### **MEET 2002 May 8 – 9, 2002**

The Canadian Institute of Plumbing and Heating (CIPH) Atlantic Region, the Illuminating Engineers Society (IESNA) and the New Brunswick Chapter of ASHRAE are sponsoring a trade exposition at the Coliseum-Agrena in Moncton, New Brunswick targeting the mechanical trades industry. For information Phone (888) 454-7469 or (506) 658-0018.

### **ISH Trade Show October 31 to November 2, 2002**

National Trade Centre, Toronto

The show covers Plumbing, Heating and Air Conditioning along with Kitchen & Bath and is the first ISH show outside of Frankfurt Germany

Information can be found at [www.usa.messefrankfurt.com](http://www.usa.messefrankfurt.com) and [www.ish-na.com](http://www.ish-na.com)

# ASHRAE HAMILTON CHAPTER GOLF TOURNAMENT

**DATE:** WEDNESDAY JUNE 12, 2002

**LOCATION:** WHIRLPOOL..... NIAGARA FALLS, ONTARIO

**COST:** \$150.00 PER PERSON

**INCLUDES:** \*\*18 HOLES PLAYED ON A PICTURESQUE COURSE  
\*\*ONE POWER CART PER TWO GOLFERS  
\*\* LUNCH AT THE 9<sup>TH</sup> HOLE.  
\*\*CHICKEN AND PASTA BUFFET DINNER

PLEASE COMPLETE THE FOLLOWING AND FAX OR E-MAIL IT BACK A.S.A.P.  
WE ARE LIMITED TO THE FIRST 88 GOLFERS REGISTERED.

PLAYER 1. \_\_\_\_\_ PLAYER 2. \_\_\_\_\_

PLAYER 3. \_\_\_\_\_ PLAYER 4. \_\_\_\_\_

PREFERRED TEE OFF TIME (FIRST TIME IS 12:10 PM) \_\_\_\_\_

DESIGNATED CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_

FAX: \_\_\_\_\_

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## Chapter Scholarship Program

As indicated last year in our chapter newsletter, one of the ways that we are offering a benefit for our membership is through the Hamilton Chapter Scholarship Program. This program is designed to support students entering a post secondary education in the field of science and technology at community college or university level. It is open to the direct family of any Hamilton Chapter member who wishes to submit an entry form. The value of the scholarship will vary slightly year to year but will be in the \$600.00 range, so it wouldn't hurt to put a name forward to promote a venture toward improving the arts and sciences of heating, refrigeration and air conditioning.

Complete the following entry form and return to the ASHRAE Hamilton Chapter's Student Activities Chair to enter. All entries will be compiled throughout this year and selection interviews will be held by the chapter executive scholarship committee and awarded at our June meeting.

Chapter Member's Name :	
Address :	
Phone No. :	
Fax No. :	
E-mail :	
Students Name and Relationship to you :	
Intended Field of Study :	
University (s) Applied to :	

Return To :  
AquaTech Sales & Marketing Inc.  
40 Bigger Avenue  
Hamilton, Ontario.  
L8L 3Z4  
Attention : Darryl Singleton, Hamilton Chapter Student Activities Chair  
Phone : (905) 545-5479  
Fax : (905) 545-8655  
E-mail : [darryls@aquatech.ws](mailto:darryls@aquatech.ws)



## **2001 - 2002 Meeting Schedule**

This year's meeting schedule is summarised below. Except for some special events, all meetings will be held at the **Royal Hamilton Yacht Club, North end of McNab St. on Hamilton Harbour - If you need a map, check out our web site at <http://www.vaxxine.com/ashrae/>**. During the 5:00 PM to 6:00 PM Social Hour, a half hour "technical session" on the basics of a particular subject relating to our industry is presented. If a session sounds interesting to you, feel free to attend. Presentations are made by our members and this forum is open to all who wish to share his or her expertise. New products and/or services are presented informally via a "table top demonstration". After dinner, the main topic of the evening is presented by a "feature speaker". If you are interested in presenting a technical session, please contact Dave Stacey. If you want to book the table top space to promote your product or service, or if you have a suggestion for a feature subject and/or speaker, contact John Pollock, George Robb, or any other member of the executive. There is a charge of \$ 75.00 for "Table Top" demonstration space, and this includes a business card ad for two months.

<b>2001 – 2002 ASHRAE HAMILTON CHAPTER PROGRAM ACTIVITY</b>				
<b>Month/Date</b>	<b>Theme</b>	<b>Tech Session 5:00 – 6:00 p.m.</b>	<b>Table Top Presentation</b>	<b>Guest Speaker/Main Topic</b>
April 9, 2002	Research	Motor Selection for Explosive Environments		T.B.A.
May 2002	Refrigeration	Tour of Toyota Motor Manufacturing – Cambridge, Ontario		
June 12, 2002	Membership/ Research	Annual Golf Tournament – Whirlpool Rapids Benefits of ASHRAE and Membership		

**Airways Newsletter Editor:**

Brian Beninger  
 Beninger Engineering Limited  
 4356 Lincoln Avenue, Beamsville, Ontario L0R 1B2  
 Phone (905) 563-3221  
 Fax (905) 563-7123  
 E-Mail [brian@beninger.ca](mailto:brian@beninger.ca)

**Hamilton Chapter Mailing Address:**

11 Paulander Dr., Unit B  
 Kitchener, Ontario N2M 5B6  
 Phone 800 644-4406  
 Fax 519 741-9380

ASHRAE Hamilton Chapter  
<http://www.vaxxine.com/ashrae/>