



# Airways

**Hamilton Chapter No. 037**

<http://www.vaxxine.com/ashrae/>

American Society of Heating, Refrigeration and Air Conditioning Engineers

Volume 49, No. 8

Our 49th Year

April 2008

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**Wednesday, April 16, 2008**  
**(Not the normal 2<sup>nd</sup> Tuesday)**

## Satellite Broadcast

### "Integrated Building Design: Bringing the Pieces Together to Unleash the Power of Teamwork"

- 12:00 pm **Lunch** (*regular meeting prices and meal plan apply to this luncheon*)
- 1:00 pm **Introduction** – Don Rheem, Moderator
- Opening Remarks** – Kent Peterson, ASHRAE President
- Roundtable Discussion** – Presenters
- "What is Integrated Building Design"** – Walter Grondzik,  
Department of Architecture, Ball State University, Muncie, IN
- "The Integrated Design Process"** – Charles E. Gulledge III,  
Senior Mechanical Engineer, AC Corporation, Greensboro, NC
- Audience Question and Answer Session**
- 2:20 p.m. **Break**
- 2:30 p.m. **"Achieving Net-Zero Energy Buildings Through Integrated Building Design"** – Drury B. Crawley, Technology Development Manager, U.S. Department of Energy, Washington, DC
- "Bringing the Pieces Together – Actual Applications"**  
– Paul Torcellini, Team Leader for Commercial Buildings Research, National Renewable Energy Laboratory, Golden, CO
- Audience Question and Answer Session**
- 3:55 pm **Closing** – Don Rheem, Moderator
- Note: Topics and Scheduled Times May Change**

**Sponsored by**  
**York Johnson Controls**

**Crossroads Communication Centre**  
**1295 North Service Road, Burlington**

12:00 noon – Lunch

1:00 pm to 4:00 pm – Satellite Broadcast

**Lunch / Satellite Broadcast**

Chapter Members - \$40.00 • Guests - \$45.00 • Students - \$15.00 • Meal Plan - \$140.00

## **President's Report**

March's meeting was held on-site at the new Longo's Supermarket in Oakville. This new facility is quite impressive with many energy saving features built into the design. Bob Gentile and Tom Quaglia from Neelands Refrigeration gave us an after dinner tour that included an explanation of the "behind the scenes" refrigeration equipment including everything from the controls, multiple compressor configuration and the refrigerant piping to the various food cases.



March Meeting at Longo's - Burlington

For April's meeting, we are hosting our annual Satellite Webcast, fed from Society, which will be held again at the Crossroads. The focus of this webcast will be "Integrated Building Design – Putting the Pieces Together to Unleash the Power of Teamwork". Luncheon and fellowship will be also available beforehand. Please RSVP to Wilf Laman at [wflaman@vaxxine.com](mailto:wflaman@vaxxine.com) so we can prepare for an adequate quantity of food. The broadcast will be held in a theatre room, with a large viewing screen and sound. I would like to mention a special thank-you to Johnson Controls for once again sponsoring this event.

The May 13<sup>th</sup> meeting at the Yacht Club will focus on the new topic of Variable Refrigerant Volume Applications and Equipment. HTS Engineering and McQuay International will be sponsoring our Table Top and Feature Speaker Presentations.

At the end of this Airways, you'll find a form to enter team(s) for the Wednesday, June 4<sup>th</sup> Annual Chapter Golf Tournament. The location of this tourney will be at the Legends on the Niagara, located in Niagara-on-the-Lake. Please fill out the form and mail it, with your payment, to David Rasmussen to reserve your spot early as spaces have been filling up quickly in recent

years. Also, don't forget about considering sponsoring a hole. David will ensure that your company logo on a sign is located at a tee box.

That's it for now. Should you have any questions or comments, please do not hesitate to call or email me personally.

Warmest regards,

*David Hills, A.Sc.T., President 07/08*

## **Upcoming Events of Interest**

### **ASHRAE Annual Meeting**

June 21 – 25, 2008  
Salt Lake City, Utah  
[ashrae.org/events/page/1628](http://ashrae.org/events/page/1628)

### **Greater Kitchener Waterloo Chamber of Commerce 21st Annual Energy & Environment Forum**

April 16, 2008, 8:00 a.m. – 12:30 p.m.  
Bingemans Park, Kitchener  
(click for more details)

## **Upcoming Chapter Meetings**

**Tuesday, May 13/08**

**Theme: Refrigeration**

Feature Speaker – Miles Chen, from McQuay, will speak to members about variable refrigerant volume applications and equipment.

Technical Session / Tabletop Presentation – HTS Engineering – variable refrigerant volume applications and equipment.

**Wednesday, June 4/08 (not 2<sup>nd</sup> Tuesday)**

**Theme: Social / Research**

ASHRAE Hamilton Chapter! Golf Tournament at Legends on the Niagara (Battlefield course) – Niagara Falls. Registration form attached (**register now**).

## **HISTORICAL BIO TMP CONSULTING ENGINEERS**

50 years ago, two exceptional young engineers got together, first to meet, and then to explore the opportunity to create a complementary mechanical and electrical design consulting practice, cooperatively, but independently. Shortly, the practices of R.T. Tamblyn and Associates and G.E. Mulvey and Associates opened in a two bedroom apartment above a print shop on Yonge Street. Their skills were recognized, and over the next 8 years, growth forced three successive moves to larger premises, all within a close proximity to the original Yonge Street location.

R.T. Tamblyn and Associates evolved to R.T. Tamblyn and Partners, recognizing Bob's remarkable ability to attract clients, and the senior partner support required to realize those clients' project expectations. Lorne Mitchell was the first Partner in 1959, followed by Ernie Sinclair (1963), Jules Olsen, Dick Sylvester and Kaz Swiderski (1964), and Peter Gillespe (1966).

Their early projects included Canada's first central heat pump system at Thorncliff Plaza, several large office projects, schools, institutions, apartment towers and a variety of mixed use facilities, including several of the Expo 67 buildings.

By the mid 1960's, their success and growth meant, again, more office space. It was solved when Tamblyn and Mulvey moved to their own building at 59 Mobile Drive. Project opportunities were now being realized across Canada. Lorne's contribution was recognized in the renaming of the firm as Tamblyn Mitchell and Partners. Offices were opened in Calgary and Vancouver in the early 1970's to provide local services. Bob Tamblyn in the midst of TMP's astounding growth announced to his partners, now including David Keenleyside and Jim Lowden, that he saw greater fulfillment in an independent concept design practice, without his current management obligations. Lorne stepped into the leadership role, distributing the administration and promotional roles among the partners, leaving everyone time to design as well. Many issues challenged Lorne; expanding the space to include the building next door, the 1975 recession, and the opportunity to take TMP beyond Canada's borders. This international experience started as three of our largest clients got involved in projects in the United States. The most recent partner, Bob Shute, was

very keen to help out there. Next, we were heading off to the Middle East, the United Kingdom, and New England. Our dominant market had become high rise office projects, but we recognized the need to refocus upon a broader market perspective, including institutional and health care.

Our staff continued to grow, as did the partner group, including Don Cruikshank, Keld Greflund, John Lowden and Wayne Brumwell.

The international activity supported opening a Boston office for US access, and had us considering other areas, particularly the UK, which was opened in 1990.

The 1990 recession really focused our attention internationally. There wasn't much work at home. Lorne had been considering retirement for a while, and the slowdown presented the opportunity.

In 1991, Lorne stepped down as president, and the partners elected Bob Shute as his replacement. Bob's interest in international work, supported by Lorne's continued involvement, saw markets opened in China, Russia, and South East Asia. The international work kept TMP current regarding office buildings, while at home our commitment to health care, institutional and retail projects grew rapidly in response to those remaining active sectors. Charlie Cooper, Reg Callaghan, and David Campbell added strength to our diversification resources. As markets recovered throughout the 1990's, TMP enjoyed the widest project diversity in its history. As 2000 approached, we were experiencing that our culture of innovation and energy conservation leadership was a national precondition to address the growing awareness and needs for sustainable design. In 2002, Bob Shute was more motivated to lead TMP's sustainable development, than TMP itself. He stepped down as president. The partners elected John Lowden as their new leader.

John accepted this challenge with enthusiasm, in an environment of an ever increasing workload, masterfully allocating our resources among all sectors, and delivered through a rapidly increasing menu of technical tools and techniques. New partners include Phil Bastow and James Hannaford. TMP's palette now included such innovations as living walls, underfloor air, deep lake water cooling, cogeneration, geothermal energy, radiant heating and cooling, etc; the full spectrum of leading edge energy saving and environmental solutions available

to be evaluated for project optimization. Many of the TMP staff became LEED accredited as others developed their technical specialties. This was melded with training and mentoring to facilitate the necessary technical transfer to younger staff, as some of the long term employees were approaching retirement.

Today at our 50th year, we can look back at a consulting practice that has been through four generations of leadership, increasing their knowledge, experience, and service delivery with each generation. This is TMP's culture. A culture we wish to share with our staff and clients for generations to come.

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TMP has a close Hamilton Chapter involvement in that they opened a Niagara Office some 6.5 years ago with Hamilton Chapter Member David Hills. David has been involved with the chapter executive for many years initially Chairing Membership Promotion where he was highly successful in broadening the chapter membership base. He has been Chapter President for the past two years. TMP Niagara also has another current Chapter Executive Member – Adam Werthmiller who now Chairs Membership Promotion.

Congratulations TMP on your Golden Anniversary.

*Submitted by George Menzies, P. Eng.  
Chapter Historian 07/08*

## ***ASHRAE News Releases***

[Applicant to Work in Government Advisory Role  
ASHRAE and USGBC Cosponsor Washington  
Fellowship](#)

ATLANTA – ASHRAE and the U.S. Green Building Council (USGBC) have joined forces to sponsor a one-year fellowship, in Washington, DC, that will allow the participant to work in the federal government in a technical advisory role. Members of ASHRAE or USGBC may apply.

[International Code Council Takes Action on ASHRAE  
Proposals](#)

ATLANTA – International building codes may soon incorporate requirements from a new load calculation standard from ASHRAE and ACCA under several recent proposals now under consideration.

***[Click here for complete news releases.](#)***



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## Airways – ASHRAE Hamilton Chapter – April 2008

### 2007 – 2008 Meeting Schedule

This year's meeting schedule is summarized below. Except for some special events, all meetings will be held at the Royal Hamilton Yacht Club, at the north end of McNab St., on the Hamilton Harbour (If you need a map, visit our web site). New products and/or services may be presented informally via a "technical session" or a "table top demonstration" prior to dinner. After dinner, the main topic of the evening is presented by the "feature speaker". If you are interested in presenting a technical session, booking table top space to promote your product and/or service or, if you have a suggestion for a feature subject and/or speaker, please contact Terry Fowler (Programs Chair). There is a charge of \$75.00 for "table top demonstration" space and this includes a business card ad for two months.

<b>ASHRAE Hamilton Chapter Program Activity</b>			
<b>Date</b>	<b>Theme</b>	<b>Technical Session/ Table Top Demonstration</b>	<b>Feature Speaker</b>
April 16, 2008 (not 2 <sup>nd</sup> Tuesday)	T.E.G.A./ IAQ		<u>ASHRAE Satellite Broadcast</u> <b>"Integrated Building Design – Putting the Pieces Together to Unleash the Power of Teamwork"</b>
May 13, 2008	Refrigeration	open	Hugh Crowther (tentative) <u>McQuay International</u> <b>Variable Cooling / Refrigerant Flow</b>
June 4, 2008 (not 2 <sup>nd</sup> Tuesday)	Social/ Research		Legends on the Niagara — <u>Battlefield Course</u> <b>Annual Golf Tournament</b>

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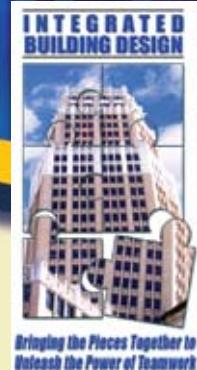
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**ASHRAE Hamilton Chapter**  
<http://www.vaxxine.com/ashrae/>

# ASHRAE Satellite Broadcast/Webcast



April 16, 2008  
1:00–4:00 P.M. EDT



## INTEGRATED BUILDING DESIGN: Bringing the Pieces Together to Unleash the Power of Teamwork

This broadcast explains what you and other members of the building team must do to advance high-performance buildings with improved design, construction and operations processes. Buildings that meet the needs of occupants and truly achieve sustainability objectives can only be created if the building community shares its knowledge and experiences. Join ASHRAE in learning more about your role in integrated building design and helping to create a sustainable built environment.

This free program is sponsored by ASHRAE's Chapter Technology Transfer Committee. For complete details, visit our website at [www.ashrae.org/ibdbroadcast](http://www.ashrae.org/ibdbroadcast).

### How to Participate

- You may host a broadcast site for your colleagues.
- You may register to view with others at a site near you.
- You may register to view the Webcast on your PC.

### PDH Credits

Three (3) Professional Development Hours or three (3) AIA Learning Units will be awarded to viewers who complete the "Participant Reaction Form" following the broadcast.

### About the Presenters

Kent Peterson, ASHRAE's 2007-2008 president, will introduce the broadcast program

- Walter Grondzik, Architectural Engineer and Professor in the Department of Architecture, Ball State University, Muncie, Indiana—"What is Integrated Building Design?"
- Charles Gulledge III, P.E., MAI, CSI, ASHRAE Distinguished Lecturer, Senior Mechanical Engineer, AC Corporation, Greensboro, North Carolina, "The Integrated Design Process"
- Drury B. Crawley, Technology Development Manager, U.S. Department of Energy, Washington, DC—"Achieving Net-Zero Energy Buildings Through Integrated Building Design?"
- Paul Torcellini, Team Leader for Commercial Buildings Research, National Renewable Energy Laboratory, Golden, Colorado—"Bringing the Pieces Together—Actual Applications"

### New Member Discount

Non-member participants will be given a \$50 discount for applying for ASHRAE membership. A special membership application will be available at satellite broadcast sites or by request at [membership@ashrae.org](mailto:membership@ashrae.org).

### Registration

Online registration for satellite site coordinators and Webcast viewers will begin March 1, 2008, at [www.ashrae.org/ibdbroadcast](http://www.ashrae.org/ibdbroadcast). Satellite viewer registration will begin March 15, 2008. There is no fee for registration. If you have any questions, call 678-539-1139 or email [ashrae-satellitebroadcast@ashrae.org](mailto:ashrae-satellitebroadcast@ashrae.org).







# **ASHRAE HAMILTON CHAPTER** **SCRAMBLE GOLF TOURNAMENT**

**DATE: WEDNESDAY JUNE 4, 2008**

**LOCATION: LEGENDS ON THE NIAGARA, NIAGARA FALLS, ON**

**COST: \$150.00 PER PERSON**

**INCLUDES: 18 HOLES ON THE BATTLEFIELD COURSE  
ONE POWER CART PER TWO GOLFERS  
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PLEASE COMPLETE THE FOLLOWING AND FAX OR E-MAIL TO DAVID RASMUSSEN  
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(REGISTER NOW TO AVOID DISAPPOINTMENT)

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

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

IF A SINGLE PLAYER, PLEASE INDICATE YOUR "NORMAL" SCORE FOR 18 HOLES:

75 - 85  86 - 96  97 - 107  108 - 118  119 OR OVER

SHOTGUN START AT 1:00 P.M. SHARP

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

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

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- NEW SPONSOR – WE WOULD LIKE TO SPONSOR A HOLE @ \$125.

- PAST SPONSOR – WE WOULD LIKE TO SPONSOR A HOLE @ \$75.

- MY GROUP WILL BRING \_\_\_\_\_ GIFT CARD(S) FOR PRIZES.

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