



Airways

Hamilton Chapter No. 037

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

American Society of Heating, Refrigerating and Air Conditioning Engineers

Volume 52, No. 7

Our 52nd Year

March 2011

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Tuesday, March 8, 2011

Digital Capacity Modulation

"Emerson's new Digital compressor technology and electronic control valves are transforming the way the industry is improving human comfort, safeguarding food and protecting the environment. The presentation will introduce Emerson's Digital Capacity Modulation Solution and outline how digital compressor technology can simplify system architecture and provide capacity modulation from 10 to 100%."

Feature Speaker

Andre Patenaude, C.E.T., Director of Marketing Emerson Climate Technologies

Andre Patenaude joined the Flow Controls (formerly Alco) division of Emerson in 1984 as a mechanical engineering technologist. Throughout his 26 years at Emerson, he has been responsible for sales, marketing, technical service and training. In 1997, Andre took on additional responsibilities for Copeland Canada as District Manager for the Province of Quebec. In 2005, he was promoted to Director of Marketing for Emerson Climate Technologies Canada – responsible for the Copeland and Flow Control lines. Apart from his marketing responsibilities, Andre also manages the inside sales and technical service and training groups.

Andre is a C.E.T. from Algonquin College in Ottawa, ON. He has served as director of the Manufacturers Division of HRAI and is an active member of RSES (selected as RSES Speaker of the Year in 2002–2003), OACETT, CETAF and ASHRAE. He is currently on the Associate Member's advisory board of ORAC (Ontario Refrigeration and Air Conditioning Contractors Association). Andre, his wife and two children reside in Brantford, ON.

IMPORTANT – Please RSVP to John Molnar – john.molnar@lge.com – by March 4th, 2011 as we must give the RHYC an idea of the number of people attending.

Royal Hamilton Yacht Club

North End of McNab, On Hamilton Harbour

5:00 pm – Social Hour / Cash Bar

6:00 pm – Buffet Dinner

7:15 pm – Feature Speaker

Dinner / Feature Speaker

Chapter Members - \$30.00 • Guests - \$40.00 • Students - \$15.00 • Meal Plan - \$150.00

President's Report

It was our Chapter's pleasure, on Tuesday, Feb 8th, to have Klas Haglid, P. E. and Architect as our feature speaker for the evening. Klas spoke about Air-To-Air Energy Recovery as part of his background as Chair of ASHRAE's Technical Committees 5.5 – Air-to-Air Energy Recovery and 7.8 – Owning and Operating Costs. It was a very informative and interesting presentation to the group. Klas looks forward to helping make the world a better place with sustainable engineering and architecture for generations to come.

ASHRAE's 2011 Winter Conference is now over. If you couldn't attend the conference, it's not too late to register for access to all 250 technical sessions from the 2011 Winter Conference. Please go to the ASHRAE home page and click on "ASHRAE Virtual Conference" for details and costs.

Also, please keep April 21st from 1-4 p.m. open to take in this year's ASHRAE Webcast. This year's topic is Ground Source Heat Pump Systems – Putting the Earth to Work for You. You can register for this webcast starting March 21 via the ASHRAE website.

Our next meeting is on March 8th at the Royal Hamilton yacht Club. Andre Patenaude, C.E.T., Director of Marketing with Emerson Climate Technologies, will make a presentation on digital compressor technology.

Finally, thinking warmer weather, our annual Golf Tournament will be held on June 15th at Legends on the Niagara – Battlefield Course. Please keep the date open. More details are included in this month's Airways. Your support of our annual golf tournament is much appreciated!

Best regards,

Mike Krewski, President 10/11

Hamilton ASHRAE Chapter Annual Golf Tournament

In with the New:

A. There will be a number of gifts at the Supper that will be raffled off. More details to follow. Proceeds will go to support ASHRAE Research Canada.

B. After 2 years at Peninsula Lakes, we are BACK to Legends on the Niagara.



This is the 16th green at Legends on the Niagara . . .
Good thing I booked the course for June 15th . . .
We need the 4 months to melt it all!

C. The date will now be the Third Wednesday of the Month (June 15th).

Out with the Old:

A. We are scrapping the "Hit the Green and Win" for Research – the Raffle will replace this.

B. The cost has been rolled back to \$150 per person. Our Hole Sponsors help keep our costs down. If you would like to sponsor a hole, please indicate so on the entry form.

Staying the Same:

A. 1 p.m. Shotgun Start / Best Ball Tournament.

B. FREE use of driving range prior to tournament.


C. After supper Gift Card Draw. If you are in a position to donate a \$10, \$20, \$30 or \$40 gift card, please indicate so on the entry form.

D. I'M BACK! It will be year 21 for me running the tournament . . . but who's counting?

Keep watching for more details in future *Airways* bulletins. Please note that the London and Toronto Chapters will be notified of this tournament. I encourage you to complete your entry form and e-mail it back to me as soon as possible (entry form attached to this *Airways* bulletin).

Submitted by David Rasmussen, C.E.T.,
Social Chair 10/11

John Freeman, EIT, LEED AP
Account Manager



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ASHRAE Technology Awards

The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation. Their designs incorporate ASHRAE standards for effective energy management and IAQ. Performance is proven through one year's actual, verifiable operating data.

The purpose of the ASHRAE Technology Awards program is to:

1. Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
2. Communicate innovative systems designs to other ASHRAE members;
3. Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

Each year the Society may present awards in seven categories: Commercial Buildings (New and Existing); Institutional Buildings (New and Existing); Health Care Facilities (New and Existing); Industrial Facilities or Processes (New and Existing); Public Assembly (New and Existing); Residential (New and Existing); Alternative or Renewable Energy Use.

For each category a first, second, and honorable mention winner may be named. Also, one of the category first place winners may be selected to receive the ASHRAE Award of Engineering Excellence. The recipient will have demonstrated the best overall compliance with the judging criteria.

Please contact Reaz Usmanali (CTTC Chair) for more information. (Also see flyer attached to this *Airways* Bulletin)

*Submitted by Reaz Usmanali, LEED®AP,
C.T.T.C. / T.E.G.A. Chair 10/11*

ASHRAE Learning Institute

A flyer outlining the Spring 2011 Online Course Series is attached to this *Airways* Bulletin.

ASHRAE Annual Meeting June 25th – June 29th, 2011

As lots of you already know, the Montreal Chapter will host ASHRAE's Annual Meeting from June 25th to June 29th. As in all Annual and Winter Meetings, technical sessions will be offered during this event. In order to ensure the sessions' smooth courses, the Montreal Chapter would like to solicit your help as a monitor. If you are interested in giving a bit of your time (half a day or more?) during this event, you will have a very advantageous discount to attend the other technical sessions: They will be offered to you FREE OF CHARGE.

Interested? Enroll at: benevoles2011@ashrae-mtl.org

And last, thanks again to all of you for your involvement in ASHRAE.

*Submitted by Reaz Usmanali, LEED®AP,
C.T.T.C. / T.E.G.A. Chair 10/11*

Energy Modeling Conference

ASHRAE is hosting an Energy Modeling Conference in Atlanta, GA from April 4th to 6th, 2011. For further information, see the flyer attached to this *Airways* bulletin or visit www.ashrae.org/energymodeling.

NEW — Job Postings


Looking to hire?

The *Airways* bulletin is distributed 10 times per year to approximately 120 HVAC/R industry professionals in the Niagara / Hamilton / Brantford / Cambridge / Kitchener-Waterloo and Guelph area.

To reach these people, advertise your job posting(s) in the *Airways* Bulletin. A 1/4 page ad [4.5" high x 3.3" wide] will cost only \$50.00 per insert. A 1/2 page ad [4.5" high x 6.8" wide] will cost only \$75.00 per insert. **The ad must be supplied as a single jpeg file.**

Contact Allan Antcliffe [allan@madok.com / 519-756-5760] for more information.

Airways – ASHRAE Hamilton Chapter – 2010/2011 Sponsors

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T.D. (Terry) Johnson FCSC
Director Hamilton/Niagara Chapter

Cell: 905.220.5366 / tjohnson32@cogeco.ca

Want to invite a special guest to an ASHRAE Hamilton Chapter meeting?

“Gold Cards” are available at a cost of \$150.00 for a package of 4 cards. Equivalent to a “Guest” registration.

If interested, contact an executive member.

This space could be yours!

**Double Sized Ad
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ASHRAE News Releases

Duct Fitting Database Latest ASHRAE Resource to Become Mobile App

ATLANTA – ASHRAE's popular Duct Fitting Database desktop application has become even more valuable as a smart phone app, allowing engineers to make complicated calculations in the field in both I-P and SI units.

ASHRAE Hosts Building Energy Modeling Conference, BEMP Certification in April

ATLANTA – An integrated design approach to building energy modeling – and learning how to use modeling tools more effectively – improves the accuracy and reliability of simulation results and increases the return on time and resources invested to generate the models (April 4–6, 2011 at ASHRAE Headquarters, Atlanta, Ga).

**Click to go to the ASHRAE
Press Release web page**

Upcoming Hamilton ASHRAE Chapter Meetings

The next meeting, scheduled for **April 4th**, will be a joint meeting with the Toronto ASHRAE Chapter. The Feature Speaker will be **Wei Sun** who will be presenting the topic of **HVAC Healthcare Design**. The meeting will start with a "social hour" at 5:00 p.m., followed by dinner and the presentation. The location for the meeting is Otello's Banquet & Conference Centre, 2273 Royal Windsor Drive, Oakville, ON L6J 7X8.

The **May 10th** meeting will be held in the Kitchener –Waterloo area with a representative of **Enermodal Engineering** speaking on the topic of **Modelling for Grants**.


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2010 – 2011 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.

ASHRAE Hamilton Chapter Program Activity			
Date	Theme	Technical Session /Table Top Demonstration	Feature Speaker
March 8, 2011	History		Andre Patenaude, C.E.T. <u>Emerson Climate Technologies</u> Emerson's Capacity Modulation Solution
April 4, 2011 (not 2nd Tuesday)			Wei Sun HVAC Healthcare Design Joint Meeting with Toronto ASHRAE Chapter Otello's Banquet & Conference Centre 2273 Royal Windsor Drive, Oakville
May 10, 2011	C.T.T.C.		Speaker Name tbd <u>Enermodal Engineering</u> Modelling for Grants
June 15, 2011 (not 2nd Tuesday)	Social/ Research	Annual Golf Tournament Legends on the Niagara – Battlefield Course	

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ASHRAE HAMILTON CHAPTER SCRAMBLE GOLF TOURNAMENT

DATE: **WEDNESDAY, JUNE 9, 2010**

SHOTGUN START AT 1:00 P.M. SHARP

LOCATION: **PENINSULA LAKES GOLF CLUB, FENWICK, ON**

COST: **\$160.00 PER PERSON**

INCLUDES: 9 HOLES ON "QUARRY" COURSE / 9 HOLES ON "HILLSIDE" COURSE
ONE POWER CART PER TWO GOLFERS
SUPPER
FREE ACCESS TO DRIVING RANGE

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David Rasmussen at tigerdave60@yahoo.ca

Restricted to the first 120 paid golfers (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

DESIGNATED CONTACT: _____

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E-MAIL: _____

- NEW SPONSOR – WE WOULD LIKE TO SPONSOR A HOLE @ \$125.00
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- MY GROUP WILL BRING _____ GIFT CARD(S) FOR PRIZES

PLEASE SEND YOUR CHEQUE – IN ADVANCE – TO:

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Make cheques payable to:
ASHRAE Hamilton Chapter

Show the World You Made It



So why
haven't you
entered?

Be the winner of the industry's most prestigious honor for efficient use of energy in building and environmental system performance.

The ASHRAE Technology Awards recognize, on a global scale, successful applications of innovative design, which incorporate ASHRAE standards for effective energy management, indoor air quality, and mechanical design.

Awards are given annually in the following categories:

- Commercial buildings
- Health care facilities
- Public assembly
- Institutional buildings
- Industrial facilities
- Residential
- Alternative or renewable energy use

ASHRAE would like to recognize our 2009 first place winners:

- **Kenneth Sonmor**—St. Laurent Office Tower/Montreal, Canada
- **Laurier Nicols**—Centre Communautaire de Misstissini/Misstissini, Quebec, Canada
- **Thomas Durkin**—HVAC Renovations at George Washington Carver Elementary School Indianapolis, Indiana
- **Jacques de Grace**—Normand-Maurice Building/Montreal, Quebec, Canada



For forms, information and deadlines visit www.ashrae.org/technologyawards

Contact your CTTC RVC or R. Douglas at ASHRAE headquarters

Phone: 678.539.1128 | **Email:** rdouglas@ashrae.org

ASHRAE Learning Institute Spring 2011 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.




Using Standard 90.1 to Meet LEED Requirements
Monday, March 28, 2011 – 1:00 p.m. to 4:00 p.m.

District Cooling & Heating Systems: Central Plants
Wednesday, April 20, 2011 – 1:00 p.m. to 4:00 p.m.

Fundamental Requirements of ASHRAE Standard 62.1-2010
Wednesday, March 30, 2011 – 1:00 p.m. to 4:00 p.m.

Understanding Air-to-Air Energy Recovery Technologies & Applications
Monday, April 25, 2011 – 1:00 p.m. to 4:00 p.m.


Application of ASHRAE Standard 62.1-2010
Wednesday, April 6, 2011 – 1:00 p.m. to 4:00 p.m.

Basics of High Performance Building Design 
Wednesday, April 27, 2011 – 1:00 p.m. to 4:00 p.m.

The Commissioning Process & Guideline 0
Monday, April 11, 2011 – 1:00 p.m. to 4:00 p.m.

Complying with Standard 90.1-2010 HVAC/Mechanical
Monday, May 2, 2011 – 1:00 p.m. to 4:00 p.m.

Avoiding IAQ Problems Using ASHRAE's New IAQ Guide
Wednesday, April 13, 2011 – 1:00 p.m. to 4:00 p.m.

Advanced High Performance Building Design 
Wednesday, May 4, 2011 – 1:00 p.m. to 4:00 p.m.

Understanding Standard 189.1 for High Performance Buildings
Monday, April 18, 2011 – 1:00 p.m. to 4:00 p.m.

Complying with Standard 90.1-2010 Envelope/Lighting
Wednesday, May 11, 2011 – 1:00 p.m. to 4:00 p.m.



ASHRAE HVAC Design Essential Workshop

May 18-20 • ASHRAE Foundation Learning Center • Atlanta, GA

ASHRAE Certification Programs

In three days, you will

- Participate in in-depth, practice-focused training
- Improve overall building performance
- Effectively collaborate on an integrated design team
- Learn from industry leaders selected by ASHRAE
- Gain real-world experience to make immediate contribution to design projects

ASHRAE created the HVAC Design Essentials to provide intensive, practical education for HVAC designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides attendees with the fundamental and technical aspects of HVAC design in commercial buildings.

In three days, you will gain practical skills and knowledge to design, install and maintain HVAC systems that can be put to immediate use. The workshop provides real-world examples of HVAC systems including calculation of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.


Who Should Attend

Professionals at:

- Mechanical design firms
- Architectural firms
- Mechanical consulting firms
- Facility management departments
- Sales engineering firms
- Utility companies



Visit www.ashrae.org/hvacdesign to register

- Building Energy Assessment Professional (BEAP) 
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit
[www.ashrae.org/
certification](http://www.ashrae.org/certification)

*Hands-on modelers, principals responsible
for energy modeling projects – this conference is for you!*



ASHRAE | ENERGY MODELING CONFERENCE
Tools for Designing High Performance Buildings

April 4-6, 2011 ASHRAE Headquarters – Atlanta

ASHRAE Headquarters
Seating is limited- register early!

For more information and to register, visit
ashrae.org/energymodeling



ASHRAE | ENERGY MODELING CONFERENCE

Tools for Designing High Performance Buildings

April 4-6, 2011 ASHRAE Headquarters – Atlanta

Lynn G. Bellenger, P.E., ASHRAE president - Keynote speaker

William J. Worthen, AIA, LEED AP - Keynote speaker

Sessions include:

- ASHRAE standards
- Cost of energy modeling
- Modeling for a variety of building types, such as hospitals, data centers and labs
- Building information modeling and integrating building performance
- Case studies

The conference covers energy modeling procedures, elements, and systems; case studies; and how different software applications address similar energy modeling challenges all while providing ample opportunities for networking.

ASHRAE is offering a special administration of the Building Energy Modeling Professional (BEMP) certification examination on April 6.. There is a separate application fee for the certification exam. **Certification applications must be received by ASHRAE 30 days prior to the exam.**

Applications will not be accepted onsite.

As part of the conference, The U.S. Department of Energy launches its development roadmap for EnergyPlus, OpenStudio, EPGUI, and other tools and introduces new, formal channels for public input. Attendees can provide feedback on the roadmap and on DOE's general activities in the simulation tools area.

Energy modeling software companies will offer 30-minute demonstrations. One-on-one comprehensive demonstrations also are available.

Registration is \$450/Member of ASHRAE, USGBC, or AIA / \$500 Non Member

This conference is ideal for hands-on modelers, principals responsible for energy modeling projects. For more information, and to register for the conference and apply for the BEMP exam, visit ashrae.org/energymodeling. Seating is limited – register early!



ASHRAE | ENERGY MODELING CONFERENCE

Tools for Designing High Performance Buildings

April 4-6, 2011 ASHRAE Headquarters – Atlanta

REGISTRATION

This conference seeks to explain building energy modeling and computer-aided building simulation by providing a program that focuses on understanding, manipulating, and optimizing building design choices and dynamics. The program covers modeling fundamentals, building component contributions, day lighting, the impact of renewable sources and waste energy recovery, system right-sizing, and 3-D computer simulation advantages.

For more information, visit ashrae.org/energymodeling

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Member Number _____

Your registration cost includes continental breakfast and lunch on each day and a reception on Monday and Tuesday evenings.

___\$450/Member of ASHRAE, USGBC, or AIA

___\$500 Non Member

If paying by credit card

___ Visa ___ Mastercard ___ Diners Club ___ American Express

Credit Card Number _____

Name on Credit Card _____ Expiration Date _____

Please mail your registration to ASHRAE Meetings Department - 1791 Tullie Circle, Atlanta, GA 30329. You may also register online at ashrae.org/energymodeling.