



# Airways

**Hamilton Chapter No. 037**

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

*American Society of Heating, Refrigeration and Air Conditioning Engineers*

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*Our 49th Year*

December 2007

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**Tuesday, December 4, 2007**

## **"Engineers Without Borders"**

### **Chapter Christmas Event – Spouses/Children Welcome**

For the 800 million people who go hungry each day and the one billion who lack access to clean water, poverty is an absence of opportunity.

**Engineers Without Borders** responds to this need, helping people in developing communities gain access to technologies that will improve their lives. We believe that technology, when appropriately incorporated into each community's social, cultural, economic and political context, can drive extraordinary change.

**George Roter, P. Eng.** will be talking about how engineers can be, and already are, part of the effort to end extreme poverty.

### Feature Speaker

### **George Roter, P.Eng.**

George Roter, P. Eng. has been recognized as one of Canada's emerging leaders in the non-profit sector. He strongly believes that Canadians are passionate about driving social change both within our country's borders and abroad. He has dedicated the past 8 years of his life to building organizations that engage a broad cross-section of Canadians, and specifically foster the involvement of our country's next generation of leaders.

Most of that dedication and effort has been focused on building **Engineers Without Borders**, an organization that, together with Parker Mitchell, George co-founded and where he continues to serve as Co-CEO. While completing his Bachelor's degree in mechanical engineering at the University of Waterloo, George became aware of the **complex challenges facing three billion people** around the world who live in poverty. He also saw an **opportunity to mobilize engineers** and their unique problem-solving approach as agents for social change. And so he co-founded Engineers Without Borders.

**IMPORTANT**—Please confirm your attendance to Wilf Laman at [wflaman@vaxxine.com](mailto:wflaman@vaxxine.com) so he can confirm the number of meals with the RHYC.

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

**5:00 pm – Social Hour**

**6:00 pm – Dinner**

**7:00 pm – Feature Speaker**

**Dinner/Feature Speaker**

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

**George Roter, P. Eng. (Cont'd from Page 1)**

He has since learned that the challenges of poverty will not be solved overnight, nor with handouts. Since its inception in January 2000, EWB has taken the approach of **building capacity** of individuals and organizations in developing countries to be able to create sustainable change locally. To this end, EWB has sent over **250 volunteers** on projects in 25 countries around the world. EWB also engages **30,000 members** across the country who are helping Canada and Canadians be part of the solution through pro-poor actions, attitudes and policies. In recognition of the results it has achieved, EWB has won major international awards and was recently invited to be a delegate on the Governor General of Canada's State Visit to Africa (November 2006, which George attended on the organization's behalf).

George is a frequent speaker at conferences and events across North America. He was recently awarded the **Young Leaders Award from the Public Policy Forum** (2007) and has been named as one of **Canada's Top 40 Under 40** (2005). In 2004 he was awarded a prestigious **Action Canada Fellowship** (2004) on public policy, which added to previous awards for his work with Engineers Without Borders (**Canadian Bureau for International Education**, 2002; **University of Waterloo**, 2000). He has been featured by *Time* magazine as one of Canada's next generation of social leaders (2001), and has appeared on television, radio and in numerous print publications across the country. George serves on the Board of Directors for a number of non-profit organizations, including **Volunteer Canada**, the country's lead organization in promoting volunteerism.

When he is not working toward creating social change, George would like to think he can be found pounding the pavement in his running shoes or paddling his Old Towne canoe down the French River.

## **President's Report**

November's meeting provided us with a special insight as to how weather climate data from weather stations all over the world is collected, analyzed, checked for accuracy and eventually summarized in the ASHRAE Fundamentals Handbook, Chapter 28. The next edition of this manual is scheduled to be available to members in 2009. The work of Didier Thevanard and his staff of Numerical Logics will be used by thousands including users of the building codes, which echo this information. It was interesting to see how mean averages are calculated and exactly what they are based on.

George Roter from "Engineers Without Borders" will be on hand at the December event to discuss the work that this organization has done on a world-wide platform. Please RSVP to Wilf Laman at [wflaman@vaxxine.com](mailto:wflaman@vaxxine.com), if you already haven't done so, to confirm your attendance.

January's meeting will be on a special date and location – January 15<sup>th</sup> at the University of Waterloo. This evening will have a visit from the Region 2 CTTC RVC from Montreal and an award will be presented to Enermodal Engineering for the Sustainable Design of the Cambridge EMS Facility that we had a tour of last year. The primary topic for the evening will be presented by Distinguished Lecturer (DL) Brian Monk from Laval, Quebec. Details to follow. The event will start with a Social hour at 6:00pm, on campus, followed by Dinner and then the DL Speaker. Please refer to this Airways for further information and please note the date change.

Wishing you a Merry Christmas and a Happy Holiday.

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

## **Upcoming Chapter Meetings**

**Tuesday, Jan. 15/08 (not the 2nd Tuesday)**

**Theme: T.E.G.A.**

Technical Session - Speaker t.b.d. - Enermodal Engineering - will update Chapter members on the energy savings realized at the Region of Waterloo EMS facility [a follow-up to our tour of the facility in January 2006] and will be presented with an ASHRAE Award for this project.

Feature Speaker - Brian Monk - Carrier Corporation and ASHRAE Distinguished Lecturer - will make a presentation on Gas Phase Air Filtration.

Note that the January 15th meeting will be held at the University Club at the University of Waterloo.

**Tuesday, Feb. 12/08**

**Theme: Membership**

Feature Speaker - Shehwar Haque - ECOS Aire (Division of Dectron) will discuss computer room glycol cooling.

## **CTTC ISSUE UPDATE**

The CTTC ISSUE UPDATE newsletter for Fall 2007 is attached to this Airways. Please have a read.

## Upcoming Events of Interest

### **ASHRAE Winter Meeting (including AHR Expo)**

January 19 – 23, 2008  
New York, NY  
www.ashrae.org  
(Click on Meetings & Events)  
or www.ahrexpo.com

### **CMX/CIPHEX 2008**

March 27 – 29, 2008  
Metro Toronto Convention Centre  
Toronto, ON  
www.cmxshow.com

## ASHRAE Hamilton Chapter Scholarship Program

One of the benefits of being an ASHRAE Hamilton Chapter member is the *Hamilton Chapter Scholarship Program*.

This program is designed to support students entering post-secondary education in the field of science and technology at the community college or university level. It is open to the direct family of any ASHRAE 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.

An application form is available from the ASHRAE Hamilton Chapter website at [www.vaxxine.com/ashrae](http://www.vaxxine.com/ashrae).

## HVACR Heritage Centre Canada

Preserving and promoting the HVACR Industry's – and your – heritage and legacy is what the HVACR Heritage Centre Canada is all about. It is the only group in North America striving to preserve not only the significant technological achievements of the early 20th Century but also the pioneers, innovators and leaders who made all that you benefit from today.

Check out their website at [www.hhc-canada.net](http://www.hhc-canada.net) and view their educational presentation – 'Chilling Out' – on the evolution of refrigeration and its impact on lifestyles, culture, society and the economy during the 20th century. This is just one example of what this new group is striving to achieve.

***Above repeated from November Airways***

## Free Research Reports

As a new member benefit, members now have free online access to all ASHRAE Research Reports.

"Members who support ASHRAE research have already helped to fund these projects," said Lynn Bellenger, chair of Technology Council. "We are giving the members access to research they have funded, which seems only fair. They can use the results to educate themselves without waiting for the results to appear in subsequent Handbook volumes. For members on technical committees, especially those that cover related subjects but didn't sponsor the research, it may stimulate research projects on related topics."

Click here to view on the Web:  
<http://www.ashrae.org/publications/detail/16474>

## ASHRAE News Releases

### ASHRAE Launches New Magazine Dedicated to High-Performing Buildings

ATLANTA – ASHRAE has launched a new magazine to help decision-makers in the building community learn about the latest developments in innovative technologies and energy-efficient design and operation.

### Hitting the O&M Notes to Achieve Net-Zero-Energy Buildings

ATLANTA – In composing net-zero-energy buildings, operations and maintenance at two of the most important chords.

### Prediction of Building Lifecycles via BIM Explored in ASHRAE Session

ATLANTA – Imagine having a crystal ball that allows you to predict the design, construction and operation of a building while still in concept phase.

Building information modeling (BIM), which is the use of real-time, intelligent, multi-dimensional and dynamic models long used in the manufacturing and aerospace industries, provides you with that look into the future of a building.

### ASHRAE Studies Heat, Moisture Production Rates of Swine Houses

ATLANTA – The proverbial "little pig who stayed home" will be assured of good indoor environmental quality under proposed research from ASHRAE.

***Click here for complete news releases.***



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## 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>
December 4, 2007 (not 2 <sup>nd</sup> Tuesday)	History/ Past Presidents	Christmas Event — Dinner & Speaker—Spouses and Children Welcome <u>Engineers Without Borders</u> George Roter, P. Eng. – Co-Founder & Co-CEO	
January 15, 2008 (not 2 <sup>nd</sup> Tuesday) [at the University of Waterloo]	T.E.G.A.	Speaker t.b.d. <u>Enermodal Engineering</u> <b>Region of Waterloo</b> <b>EMS Energy Savings</b> [At the University of Waterloo]	Brian Monk Carrier Corporation (RCAN) ASHRAE Distinguished Lecturer <b>Gas-Phase Air Filtration</b> [At the University of Waterloo]
February 12, 2008	Membership	open	Shehwar Haque <u>ECOS Aire (Division of Dectron)</u> <b>Computer Room Glycol Cooling</b>
March 11, 2008	Students/ Y.E.A.	Noel Neelands <u>Neelands Refrigeration</u> <b>Tour of New Style Supermarket Refrigeration Technologies</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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ASHRAE

# CTTC ISSUE UPDATE

## Chapter Technology Transfer Committee

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### 2008 ASHRAE Satellite Broadcast/ Webcast On Integrated Building Design Named

By Bill Williams, P.E, LEED-AP  
CTTC Communications Coordinator

April 16, 2008 1-4 p.m. Eastern Time

The Ad Hoc Committee met in Atlanta on Oct. 25<sup>th</sup> to develop the program for the 2008 broadcast. After a slow start to knock out some logistics and await the arrival of a flight-delayed presenter & Ad Hoc Committee member, the group has put together a plan that has all of the signs of a stellar program. The Committee brainstormed and decided to name the program, *“Integrated Building Design – Putting The Pieces Together To Unleash The Power Of Teamwork.”*

The speakers were selected, as in years past, from recommendations from the Technical Committees relevant to the topic. The 2008 presenters are: Walter Grondzik, Ball State Univ., Chuck Gulledege, AC Corporation (Past CTTC Chair), Dru Crawley, US DOE, and Paul Torcellini, NREL.

After the success of the 2007 broadcast, improvement seemed to be a daunting task. At the end of the meeting, we were well on our way. An aggressive goal of increasing viewers by 25% was proposed. This can be achieved if the grassroots CTTC Chairs actively promote the program. In addition, the Ad Hoc Committee will be aggressively promoting the program to AIA and BOMA.

The program will be coming together rather quickly. Keep an eye on the developments on the ASHRAE webpage, <http://www.ashrae.org>.

Online registration will begin in March 2008 at <http://www.ashrae/ibdbroadcast.com>. There is no fee for registration. For additional information, email [ashrae-satellitebroadcast@ashrae.org](mailto:ashrae-satellitebroadcast@ashrae.org) or call 678-539-1139.

### Technology Award Winners Announced

By Steve Abernathy, P.E  
CTTC RVC-Region IV, Chair – Technology Awards Subcommittee

The long-awaited Technology Awards have been announced:

#### FIRST PLACE WINNERS

##### **Albert R. Barifeld, Region VII**

Gulf Power Company  
Pensacola, Florida  
Category I – Commercial Buildings – New Springhill Suites Pensacola, Florida

##### **Craig A. Watts, Region IX**

MKK Consulting Engineers, Inc.  
Greenwood Village, Colorado  
Category II – Institutional Buildings – New Fossil Ridge High School  
Fort Collins, Colorado

##### **Rick L. Grove, Region XI**

Stantec Consulting  
Seattle, Washington  
Category V – Public Assembly - New Firstenburg Community Center  
Vancouver, Washington

##### **Apichit Lumlertpongpana and Wichai Rungruangprug, Region XIII**

I.T.C. (1993) CO., Ltd.  
Bangkok, Thailand  
Category IV – Industrial Facilities or Processes – New Charoen Pokphan Foods Public Company Ltd.  
Chokchai, Thailand

##### **Laurier Nichols, Rejean Blais, Simon Pelletier, Oanh Nguyen, Jean Molina, & Marco Freitas, Region II**

Dessau-Soprin  
Category III – Health Care Facilities – Existing Rehabilitation of Honore-Mercier Hospital  
Saint-Hyacinthe, Quebec, Canada

#### SECOND PLACE WINNER

##### **David Kistler, Region V**

SmithGroup, Inc.  
Detroit, Michigan  
Category V – Public Assembly – New

Environmental Discovery Center  
Springfield Township, Michigan

## **HONORABLE MENTION WINNERS**

### **Martin Roy, Region II**

Martin Roy et Associes Inc.  
Deux-Montagnes, Quebec, Canada  
Category V – Public Assembly – New  
Canadian Amateur Musician Musiciens Amateurs  
Canadien  
Harrington, Quebec, Canada

### **Pierre Roussel, Region II**

Bouthillette Parizeau  
Montreal, Quebec, Canada  
Category I – Commercial Buildings – Existing  
Complexe les Ailes  
Montreal, Quebec, Canada

### **Stephane Sirard, Region II**

Dessau-Soprin  
Longueuil, Quebec, Canada  
Category II – Institutional Buildings – New  
Centre de Formation Professionnelle l'Horizon  
Mont-Tremblant, Quebec, Canada

### **Christopher Rauch, Region VI**

Epstein & Sons International, Inc.  
Chicago, Illinois  
Category IV – Industrial Facilities or Processes –  
New  
Aramark Chicago Industrial Laundry  
Chicago, Illinois

### **Steven Jones, Region X**

Taylor Teter Partnership, LLP  
Fresno, CA 93711  
Category I – Commercial Buildings – New  
Kern Schools Federal Credit Union Administration  
Building  
Bakersfield, California

Congratulations to the winners !

## **Call For Distinguished Lecturers**

**By Eric Binder**  
**CTTC Program Coordinator, Chair-DL Program**  
**Subcommittee**

**W**e invite you to nominate qualified candidates for the ASHRAE Distinguished Lecturer Program from outside the U.S. and Canada.

ASHRAE Distinguished Lecturer candidates are not required to be ASHRAE members, but must commit to participate in the program for at least two years and should be excellent speakers and public representatives of the principles of ethical and professional practice for which ASHRAE stands.

Please review the article “Call for Distinguished Lecturers” by Erich Binder, CTTC Distinguished Lecturer Subcommittee Chair, featured in the September 2007 issue of ASHRAE Insights. Mr. Binder highlights program benefits, nomination requirements, and the CTTC search for Distinguished Lecturer nominees from outside of the U.S. and Canada. You may access the article online at <http://www.ashrae.org/publications/detail/16443>.

For additional information, the Nomination Form and a listing of current lecturers, please visit <http://www.ashrae.org/DistinguishedLecturers>. If you need assistance, please contact Rosy Douglas, Chapter Technology Transfer Committee Staff Liaison, at [rdouglas@ashrae.org](mailto:rdouglas@ashrae.org).

## **Government Activities Update**

**By Tom Werkema, CTTC GA Consultant**

### **MONTREAL PROTOCOL CELEBRATES 20<sup>TH</sup> ANNIVERSARY**

**T**he Montreal Protocol Parties celebrated the MP 20th Anniversary in Montreal. The Parties agreed to changes in the HCFC phase out rules, with the most significant impact to developing countries. But developed countries also agreed to reduce HCFC availability from 35% (old) of baseline in 2010 to 25% (new). This will most directly impact HCFC-22 servicing, making the product significantly tighter. OEM's must stop using HCFC-22 in new equipment manufactured after January 1, 2010 in the US and Canada. Europe has already stopped using HCFC-22. But service uses continue, in particular for home air conditioning systems. HFC-410, a new alternative, is more desirable since it is not impacted by the reduction. The HCFC phase out date for developed countries remains the same - 2030. The US and Canada EPA's will need to adjust their domestic regulations to implement this change. Developing Countries agreed to the following schedule:

## Old HCFC Schedule 2016 freeze at 2015 levels

New HCFC Schedule  
-2013 freeze at '09, '10 average  
-2015 10% reduction  
-2020 35% reduction  
-2025 67.5% reduction  
-2030-'40 2.5% service  
-2040 phase out

2040 phase out

## **U.S. CLIMATE CHANGE ACTIVITY**

**S**ignificant activity has occurred within the US on climate change. Over 30 States are taking action, with California leading, and the White House hosted 13 countries on September 27,28 including India and China. The WH conference will lead to a "pledge and review" process where all countries make their own commitment to reductions, which will be then reviewed at some future date.

Additionally, many Congressional Bills have been introduced. In early October, the focal bill Lieberman-Warner was introduced in the Senate. Sub Committee hearings are expected yet this year and possibly full committee hearings as well. Key components of the bill include:

- A. 2005 baseline for emissions
- B. Restrictions commencing in 2012
- C. Includes all greenhouse gases
- D. Creates Auction system
- E. 1990 levels by 2020
- F. 65% below 1990 in 2050
- G. Diminishing free allowances, increasing Auction allowances
- H. Mandated use of Auction proceeds

Although the bill is not expected to be approved as is, negotiations this Fall will set the stage for more rigorous discussions in 2008 and 2009.

## **Advocacy**

**By Doug Read & Ryan Colker, ASHRAE Government Affairs**

<http://www.ashrae.org/advocacy>

**V**isit the new Government Affairs Webpage, <http://www.ashrae.org/governmentaffairs> for details on public policy activities and to sign up for the e-mail updates.

## **Long Beach Meeting Recap**

**By Guy Perreault, P. Eng. CTTC Vice Chair**

**T**he Chapter Technology Transfer Committee (CTTC) meeting in Long Beach was a success!

The main issues discussed were the Distinguished Lecturer Program (DL), the implementation of a Master Speaker Database, the Satellite Broadcast, CRC Orientation, the Technology Awards, the Dan Mills Award and the Government Activities Award (GA).

The Distinguished Lecturer Program has increased to 109 the number of allocations for 2007-08. The DL sub-committee also hopes to increase by 4 the number of DL's from outside the USA and Canada, which will provide more options for international chapters. The same sub-committee also worked with the College of Fellows to create a Master Speaker Database, more on the subject soon...

CTTC has selected "Integrated Building Design" as the subject for the April 16, 2008 Satellite Broadcast/Webcast.

The CRC Orientation Subcommittee planned to develop a strategy for CTTC Chapter Chair training reimbursement. The effort proved to be positive as Members Council gave it unanimous approval and will be effective as of July 2008.

The Technology Awards sub-committee is in the process of reviewing the criteria and application form for the Technology Awards. The objective of the revision is to simplify the submittal of a project and to improve the evaluation criteria. Support from cognizant TCs and SSPCs has been requested to help develop the criteria.

The Dan Mills Award subcommittee has selected a winner and will be recommended to Members Council for approval.

The Government Activities sub-committee had approved a revised form to make it easier for applicants to apply for this award.

Finally, CTTC would like to thank the following outgoing, committee members, Charles Gullledge III, Chair, Ron Thompson, Vice Chair, Douglass Abramson, Consultant/Energy and Bing Liu, Consultant/Technology.

## **New Magazine, High Performance Buildings, Announced**

**By Frederic Genest, CTTC RVC-Region II and Fred Turner, ASHRAE Journal Editor**

**A**SHRAE has launched a new magazine to help decision-makers in the building community learn about the latest developments in innovative

technologies and energy-efficient design and operation. Targeted at building owners, facility managers, architects and engineers, [High Performing Buildings](#) features working case studies of exemplary buildings developed by leading practitioners in the sustainability movement.

**ASHRAE members will receive a free digital subscription.** If they wish to receive a printed subscription, they will be required to pay it.

Also included is a “lessons learned” section in each article where building designers and operators explain what went right, what went wrong, how problems were resolved and what could have been done better.

“It is essential that ASHRAE share both the technologies and measured performance of high-performance buildings to change the status quo and help transform the building industry to a more sustainable built environment,” said Kent Peterson, ASHRAE president.

ASHRAE’s goal is to advance the concept of integrated building design with a focus on measured building performance, not just design of sustainable buildings. The case studies featured will provide performance data, verifying actual sustainability performance.

The cover story of the first issue focuses on Heifer International. By providing gifts of livestock and plants to financially disadvantaged families around the world, Heifer International teaches sustainability by showing recipients how to use those gifts wisely. The importance of passing on the gift of sustainability is also highlighted in the organization’s Arkansas headquarters, which features earth-friendly designs such as a constructed wetlands, a gray-water tower and energy-saving techniques.

“One thing that Heifer understands is that if we are going to have a lasting impact on world hunger, everything we do must be sustainable – that is the means for production of food and income must renew the environment and not deplete it,” Jo Luck, Heifer’s CEO and president, said. “In conceiving and constructing our new office building, we are striving to live up to the aspirations of Heifer’s own mission of ending hunger and saving the earth.”

To learn more, visit [www.HPBmagazine.org](http://www.HPBmagazine.org).

### **Energy Update**

**By Adam Hinge, CTTC Energy Consultant**

Interest in building energy efficiency opportunities and improvements is at an all time high, driven by

record high energy prices and increased activity toward carbon emissions reductions. Numerous recent studies have shown that energy efficiency in buildings is the lowest cost way of attaining significant carbon emissions reductions, and a wide variety of programs exist to help building owners understand how to implement energy savings projects.

At the Long Beach meeting, a number of programs highlighted ASHRAE’s activities in leading building energy performance improvement. A key part of Society President Kent Peterson’s theme is measuring and benchmarking building energy performance to understand improvement opportunities. For example, the Technical Committee on “Systems Energy Utilization” (TC 7.6) sponsored a seminar in Long Beach on “Benchmarking the Energy Performance of Commercial Buildings”; you can see the three presentations from the seminar at the TC 7.6 website:

<http://eber.ed.ornl.gov/tc96/LB2007Sem16.htm>

The new 2007 ASHRAE Applications Handbook has updated information from the US Energy Information Administration’s “Commercial Buildings Energy Consumption Survey” (CBECS). Several tables in that Handbook Chapter allow for comparison of building energy use vs. a large sample of similar buildings. Take the time to read this part of the Handbook (comments/suggestions for improvement to this Chapter of the Handbook are welcome; please send through your CTTC Regional Vice Chair).

ASHRAE’s sister organizations in Europe, including CIBSE (the UK Chartered Institute of Building Services Engineers), are actively involved in the implementation of the European Directive on the Energy Performance of Buildings. A seminar in Long Beach gave an update about the activities. Many of the activities are leading to new pan-European Standards issued through the European Committee for Standardization (CEN, much like ANSI in North America), with some quite similar to ASHRAE building energy standards. Much more can be learned about the Directive and the way various European member states are implementing it, along with a variety of related activities, at [www.buildingsplatform.org](http://www.buildingsplatform.org) or [www.epbd-ca.org](http://www.epbd-ca.org)