



ASHRAE

CTTC ISSUE UPDATE

Chapter Technology Transfer Committee

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. 25th 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 Gulledge, 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 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

We 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.

Government Activities Update

By Tom Werkema, CTTC GA Consultant

MONTREAL PROTOCOL CELEBRATES 20TH ANNIVERSARY

The 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

Significant 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>

Visit 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

The 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

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. 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.

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 or www.epbd-ca.org