

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
 ENGINEERS, INC.
 1791 Tullie Circle, N.E./Atlanta, GA 30329
 404-636-8400**

TC/TG/TRG MINUTES COVER SHEET

(Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/TRG NO 8.2 DATE Jan 11, 2012 APPROVED Jan 23, 2012

TC/TG/TRG TITLE Centrifugal Machines

DATE OF MEETING June 27, 2011 LOCATION Montreal, Quebec, Canada

MEMBERS PRESENT, appt yr	MEMBERS ABSENT	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Riyaz Papar (VM), 2009, Chair	Jeb Schreiber (VM), 2010	Samuel Yana - visitor
Phillip Johnson (VM), 2009, Vice Chair	Norbert Mueller (VM), 2009	Scott MacBain - visitor
Susanna Hanson (VM), 2010	Pradeep Bansal (Int'l VM), 2008	Edwin Huestis - visitor
Stephen Duda (VM), 2009	Rudy Chervil	Jay Ramkumar - visitor
Paul Kozlov (Intl VM), 2010	Rick Heiden	Myongng Sung Sohn - visitor
John Vucci (VM), 2010	Vin Gupta	Hyun Jae Joo - visitor
Saunders Smith	Gil Avery	
Mark Adams	Robert Bates	
Forrest Yount	Julian DeBullet	Nathan Hart - CTTC
Kostas Kontomaris	Richard Danks	Rick Hermanns – Research Liaison
Fred Betz	Bill Dietrich	Martin Dieryckx – Standard Liaison
Justin Kauffman	Karine Leblanc	Stephanie Reiniche – Mgr Standards
Raymond Good	Richard Niess	Michael Vaughn – Staff Liaison
Bill McQuade – Section Head	Ajay Iyengar	
	Andrew Price	
	David Reid	
	Roger Richmond-Smith	
	James Watts	
	Edward Ka Cheung Tsui	
	Daryl Showalter	
	Tom Watson	
	Mike Stark	
	Jonathan Spreeman	
	Valdemar Zdzitowiecki	
	Mike Thompson	

DISTRIBUTION

<i>All Members of TC/TG/TRG plus the following:</i>	
TAC Section Head:	Steve Duda SH8@ashrae.net
TAC Chair:	Donald Brundage dbrunda@southernco.com
All Committee Liaisons As Shown On TC/TG/TRG Rosters:	Program: Bill Dietrich bdietrich@baltimoreaircoil.com Research: Richard Hermans rick.hermans@mcquay.com Handbook: Russell Lindemann hbs4@ashrae.net Standards: Martin Dieryckx dieryckx.m@daikineurope.com Special Pubs: Dr. Stanley Mumma sam11@psu.edu Chapter Tech Transfer: Nathan Hart nhart@rwb.net ALI/PDC: Florentino Mendez tino.mendez@benham.com 90.1: Susanna Hanson shanson@trane.com 20/20 Vision: Tom Watson tom.watson@mcquay.com
Manager Of Standards:	Stephanie Reiniche sreiniche@ashrae.org
Manager Of Research & Technical Services:	Mike Vaughn mvaughn@ashrae.org

MEETING MINUTES

1. Call to Order at 2:15 on June 27, 2011.
2. Introduction of Attendees, Liaisons, Officers and Guests. Establish Quorum
 - Attendance sheet circulated
 - Quorum established, 5 of 7 voting members present (Papar, Johnson, Duda, Hanson, Vucci), 1 non-quorum international members present (Kozlov)
3. Review/Approval of Las Vegas Meeting Minutes (meeting date – January 2011)
 - Duda moved to approve minutes, Johnson 2nd, unanimous vote 6-0-0
4. Reports:
 - 4.1. Program Subcommittee S. Duda
 - Report **Attachment A**
 - Attendees – Betz, Duda, Good, Kauffman, Kontomaris, Johnson, Papar, and Yount attended 6/26/11 subcommittee meeting.
 - Conference Paper Program for Chicago – 3 papers to be presented. Reviewers needed – 9 were identified to review the papers.
 - Seminar to be submitted for Chicago – Back to Basics, Chiller Selection. To be co-chaired by TC 8.1. Fred Betz to speak from TC 8.2 and one other from TC 8.1. Motion to submit Seminar made by Susanna Hanson and 2nd by Steve Duda. Passed unanimously.
 - Report on Forum 3 in Montreal – 13 people attended. See Forum 3 Summary and Evaluation Results in appendix A.
 - For San Antonio – A conference Paper Program on Sustainable Chiller Plant Efficiency will be submitted. Abstracts are due by September 26. Possible co-sponsor TC 9.01. John Vucci would be one presenter. A conference call will be set up to discuss other possible writers / speakers.
 - A Subcommittee meeting will be held via conference call before the winter meeting in Chicago.
 - 4.2. Handbook Subcommittee J. Kaufmann
 - Subcommittee meeting held on Sunday June 26.
 - Members - Betz, Heiden, Miller, Gercek, Bates
 - Two Chapters that we are responsible for will be in the 2012 handbook – Chapters 37 and 42. There will be minor edits for this publication – but more significant edits are expected to be done for the next (2016) version.
 - Paul Kozlov stated that we need to address “oil free” compressors in Chapter 37. It is expected that we will publish something for the “mid-cycle” on-line.
 - Motion to approve both Chapters by Phil Johnson and seconded by John Vucci. Passed unanimously.
 - Paul Kozlov will be added to the Handbook subcommittee to replace Gercek.
 -

5.3 Standards – no subcommittee meeting in Montreal

- SPC 30, Standard Formation and Committee Membership Approved S. Smith
 - SPC 30 first meeting will be in Chicago, Jan 2012
 - Members – McQuade, Johnson, Vucci, Kyle Wessels
 - Saunders is still looking for additional committee members.

- SSPC 90.1 Update S. Hanson
 - Title – Energy Standard for Buildings Except Low-Rise Residential Buildings
 - No changes to status since the January meeting

- SPC 184 Update J. Vucci
 - Title – Method of Test, Field Performance of Liquid-Chilling Systems
 - They want to develop a checklist for Owners / Commissioning to be used before the field performance test
 - The Standard is close to having a complete draft for review. The draft for advisory review is to be voted on at the Montreal SPC meeting at 8:00 on Tuesday.
 - The “flow” is the stumbling block in completing the Standard – there were compromises in the previous meeting.
 - The Committee need to do a working plan update

5.4 Research Subcommittee M. Adams

- Members – Bansal, Heiden, Johnson, Kauffman, Kozlov, Kontomaris
- See **Attachment B** for discussion items from this meeting.

5.5 Membership F. Yount

- New roster for 2011 – 2012 is established
- Voting members are Phil Johnson, Rick Heiden, Forrest Yount, Norb Mueller, Kostas Kontomaris. Jeb Schreiber, and John Vucci. Non-Quorum voting members are Pradeep Bansal and Paul Kozlov.
- Committee assignments as follows:

Chair	Johnson
Vice - Chair	Heiden
Secretary	Betz
Program	Duda
Standards	Smith
Research	Adams
Handbook	Kauffman
Webmaster	Kauffman
Membership	Yount
Honors and Awards	Heiden

5.6 Honors and Awards P.Johnson

- Bill McQuade is being nominated for Distinguished Service Award.
- Julian DeBullet declined nomination for the Andrew T. Boggs Award for 2011 because he is on the Honors and Awards committee. We will consider nominating him after his term ends.
- We will nominate Tom Watson for the Boggs Award after Julian DeBullet.
- A new award has been established by TAC. It is the Hightower Award and will be an exceptional award for a specific project related to TAC. The deadline for nomination is September.

5.7 Web Master J. Kauffman

- Website is up to date
- Will add any additional data as suggested by TC membership
- Send any written presentations that are done for the TC to Jason for posting.
- Website address is <http://tc82.ashraetcs.org/>

5.8 International Update P. Bansal

- No report at Montreal meeting

5.9 Section 8 Chair's Breakfast R. Papar

- Meeting summary shown in *Attachment C*
- A new type of committee, called a Multidisciplinary Task Group (MTG), has been formed for topics involving 2 or more TC's. There are 4 MTG's. They are identified in the Attachment C. Our TC could have a representative on these committees if we desire.
- There are several upcoming conferences that are identified in Attachment C and more details can be found on the ASHRAE website.
- Bill Dietrich, CEC Chair, announced that there is a big increase in the number of Conference Papers being submitted and they are looking for reviewers. Contact Phil or Riyaz if you are interested in being a reviewer.
- ASHRAE will send a "letter of appreciation" to your employer for your efforts if you desire. See the ASHRAE website for information.

5. Old Business

- 5.1. Action Items from Las Vegas meeting were completed except for AHRI action item shown below under new business (carried over).

6. New Business

At this time Riyaz Papar turned the meeting over to the incoming Chair - Phil Johnson

Bill McQuade presented Riyaz a Certificate of Appreciation for his service as Committee Chair. The entire Committee thanked Riyaz

6.1. Action items

- Smith – determine if there is there interest from AHRI member companies to develop certification program for chiller refrigerant leakage once Standard 147 and 196 are released. There is no further news on this.

6.2 Justin Kauffman – TC 8.5 is interested in a Research Project regarding tube failure and wants to know if our TC is interested in co-sponsoring. TC 8.2 expressed interest in this co-sponsorship.

7. Adjournment at 4:05 pm

- 7.1. Johnson made motion, Vucci 2nd, Unanimous vote.

Respectfully submitted by:

Fred Betz

ATTACHMENT A
Program Subcommittee Report

TC 8.02 Program Subcommittee Report

2011 Annual Meeting, Montreal, PQ, Canada

Meeting Details: June 26, 2011 / 6:00 to 7:00 pm EDT / Hilton Bonaventure Hotel / St. Michel Room

Attendees: Stephen Duda (TC 8.02 Program Subcommittee Chair) / Ray Good, Kostas Kontomaris, Forrest Yount, Fred Betz, Justin Kauffman, Phil Johnson, Riyaz Pappar.

CEC Update:

- **Deadline** for Seminar/Forum submissions is August 12, 2011 for Chicago (2012 Winter). Tracks are
 - Track 1 Energy Efficiency - New Technologies and Applications
 - Track 2 Integrated Design
 - Track 3 Specialized Applications - Healthcare, Laboratories and Data Center
 - Track 4 Energy Modeling Applications
 - Track 5 Installation, Operation & Maintenance of HVAC Systems
 - Track 6 High Performance Buildings
 - Track 7 HVAC & R Systems and Equipment
 - Track 8 Professional Skills
 - Track 9 HVAC & R Fundamentals and Applications
 - Track 10 Refrigeration
- **Deadline** for written Conference Papers is July 8, 2011 for Chicago.
- **Deadline** for new Conference Paper Abstracts and Full Technical Papers is September 26 for San Antonio (2012 Annual). Tracks will be HVAC & R Fundamentals and Applications, HVAC & R Systems and Equipment, Integrated Energy Systems, Building Modeling Applications, Refrigeration Applications, Indoor Environmental Applications, Integrated Building Controls

Recent Past Programs:

- None from TC 8.02 were presented in Las Vegas (2011 Winter).

Montreal (Current) Programs:

- Forum 3 Monday, June 27, 2011, 9:45 am - 10:45 am; Hilton Bonaventure Room: Outremont: What updates are needed in Standard 30 (MOT for Liquid Chilling Packages)? Chair: Phil Johnson. Track: HVAC Systems and Equipment. Report given to full TC 8.02 Meeting by Phil Johnson.

Planned or Future Programs:

- Conference Paper Session for the 2012 Winter Conference in Chicago (already submitted and accepted by CEC): *Considerations for Chiller Life Cycle Evaluations Including Comparisons to ARI 550/590 IPLV*. Chair: Rick Heiden / Authors-Speakers: Steve Duda, Saunders Smith, Ryan Geister or substitute. Track: Systems and Equipment. Rick will need volunteer paper Reviewers; ask at full TC Meeting.
- Proposed Seminar for the 2012 Winter Conference in Chicago (Proposals due August 12): What applications are better suited or more appropriate for centrifugal chillers, and which for positive displacement chillers? Possible considerations for surge, lift, noise, energy, and so forth. Idea was suggested for cosponsorship from

TC 8.01. Potential Title: Back to Basics: *Selection of Proper Chiller Technology*. Fred Betz volunteered as a Speaker for this Session. ACTION ITEM FOR DUDA to organize the session; speak to TC 8.01.

- Proposed Conference Paper Session for the 2012 Annual Conference in San Antonio (details to be confirmed): *Sustainable Chiller Plant Efficiency – GPC 22 in Application*. Possible co-sponsorship with cognizant TC for GPC 22 (which is TC 9.01) and speakers to be solicited from former GPC 22 members. Chair, Speakers & Track TBD. ACTION ITEM: Duda will contact John Vucci and others to organize. ABSTRACTS DUE SEPT. 26. Suggested program of 3 authors/speakers is (1) an overview of Guideline; (2) somebody who has used it, such as a consulting engineer; and (3) a plant operator for a case study. Joe Hoose from Standard 184 was suggested as a candidate speaker as well. Susanna Hanson has information how something similar is being adopted to Code in Singapore.
- Regarding Standard 90.1-2013, AHRI is facilitating efficiency table discussions with their member companies. Is there a program idea here? Program suggestion would be to take a holistic approach with TC 9.01 on whole building on a performance basis. Avoid specific chiller promotion. Possible Seminar for 2012 Annual in San Antonio.

Brainstorm carryover from 2011 Winter Conference at Las Vegas:

- International groups are pushing hydrocarbons refrigerants. Is there a program idea here? Topic could be “Past, Present, and Future Refrigerants.” Bill McQuade would make a good Chair. Conference Paper Session. Possible cosponsorship with TC 3.01. Carry forward.
- Joint Seminar with TC 6.01 on water-side economizers? Considerations for design impact of the decision to use water-side economizer on chiller selection and/or operation, including but not limited to the changeover period from economizer (cold condenser water) to compressor operation (warm condenser water). A caution to avoid spoken and unspoken commercialism related to a chiller with a built-in refrigerant migration economizer if proprietary.
- Possible “Introduction to Standard 184” Program when Std. 184 (Vucci, MOFT for Chillers) is finished and released.

New Business

- Volunteer Peer Reviewers for Conference Papers: Phil Johnson, Justin Kauffman, Ray Good, Susanna Hanson, Riyaz Papar, Fred Betz, Paul Kozlov, Mike Zamalis.

Next Meeting

- To be held via telephone conference in December 2011, in advance of the Chicago Winter Conference. Date and Time to be announced. The subcommittee chair recommends face-to-face program subcommittee meetings once per year at the Annual Conferences, with telephone conferences each December in advance of the Winter Conferences.

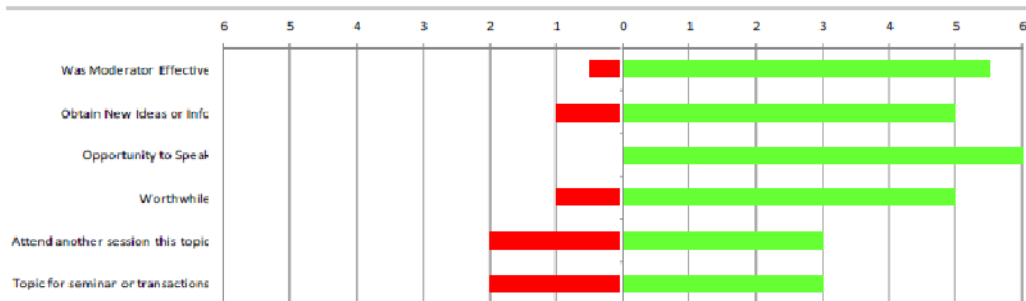
Respectfully submitted by:

Stephen W. Duda
TC 8.02 Program Subcommittee Chair
June 27, 2011

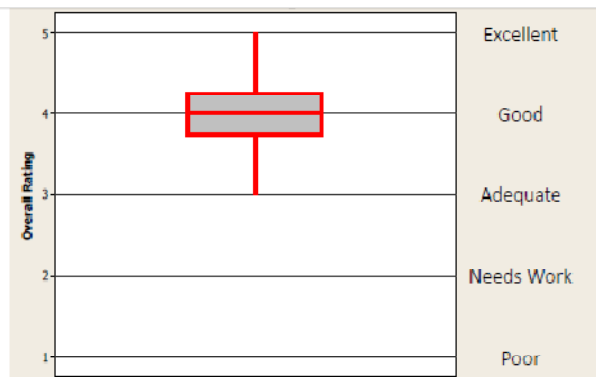
Forum 3 Summary

- Minor change required to TPS
- Suggestion to focus on MOT only
 - Gain more international acceptance if avoiding definition of target test conditions and weighted average performance metrics
 - Borrow from ISO 19298 draft, part A
 - Borrow from AHRI 550/590-2011

Forum 3 Evaluation Results



13 attendees
 6 evaluations completed



ATTACHMENT B
Research Subcommittee Report

TECHNICAL COMMITTEE MEETING
T.C. 8.2 CENTRIFUGAL MACHINES
TC 8.2 Research Subcommittee Report
2011 ASHRAE Annual Meeting, Montreal, Canada

June 27, 2011

Research S/C Chair Breakfast notes of interest

- ASHRAE Board is reviewing an MOU with the GPIC-HUB (Greater Philadelphia Innovation Cluster (GPIC) for Energy-Efficient Buildings) to coordinate and understand shared research goals. We are looking for mechanisms to pool resources on research projects of common interest. This is a Federally funded program in combination with Penn State University and located at the Philadelphia Navy Yard to research methods to improve Energy Efficiency in Existing Small Commercial Buildings
- We currently have 8-10 Tentative Research Projects (TRPs) waiting for funding. Plan to send 2 TRPs out for bid in the fall 2011.
- Innovative Research Grant program is being finalized. Seed funding for novel research (up \$125k) for ideas that have potential to significantly advance the state-of-the-art in HVAC engineering. The program is intended to encourage out-of-the-box research. Project budgets of \$50k per year for two years, additional \$25k possible with industrial matching. Pre-Proposals are due on August 15 (2-page white paper) to be reviewed by RPS/RAC (and invited experts) at Fall Meeting.

Current Activities

Research Subcommittee meeting was held on Sunday June 26, 2011.

Project Status

- RP-1476 - Woven Compressor Enabling Economic and Scalable R718 Chillers:
 - ASHRAE Funding Requested by the URP: \$228.3k (\$35.4k of funding provided by MSU) was approved in fall of 2009.
 - Update research project 1476-RP:
 - Project is complete.
 - Final report has been recently submitted and needs to be reviewed by PMS for approval. This approval will be obtained by letter ballot and then approval will be requested from the TC for approval by letter ballot.
- RP - 1486 - Fault Detection and Diagnostics of Centrifugal Chillers:
 - Project is complete

Future Activities

- RTAR for research related to 2L safety classification as applied to commercial and industrial centrifugal machines. A copy of the proposed RTAR was given to voting members at January meeting. Several organizations are working on similar studies. Committee has recommended that we hold on this project until it becomes clear what other work is proceeding.
- Develop a uniform (globally standardized) LCCP calculation method. DOE/Oak Ridge National Lab has started a project with similar scope. This project will not be pursued.
- New ideas for research projects will be generated for the winter meeting. Next meeting will be by conference call.

Respectfully submitted,
Mark Adams
July 4, 2011

ATTACHMENT C

Information from section head breakfast

**AGENDA
SECTION TC/TG/TRG CHAIR'S BREAKFAST MEETING
2011 Annual Meeting
Montreal, Canada**

Sunday, June 26th
6:30 A.M. – 8:00 A.M. EDT
All Section Meetings - Lower Level Floor – Hilton Hotel

- Section 1, Fontaine Salon H Room
- Section 2, Mansfield Room
- Section 3, St. Laurent Room
- Section 4, Fundy Room
- Section 5, Portage Room
- Section 6, St. Pierre Room
- Section 7, Jacques Cartier Room
- Section 8, Pointe-Aux-Trembles Room
- Section 9, Fontaine Salon F Room
- Section 10, Fontaine Salon E Room

- I. CALL TO ORDER
- II. ROLL CALL AND INTRODUCTIONS (5 minutes)
- III. CBC LIAISON (5 minutes)
- IV. ADDITIONS AND/OR CHANGES TO THE AGENDA (5 minutes)
- V. REVIEW MINUTES/NOTES, SPECIAL ASSIGNMENTS, ACTION ITEMS FROM LAST MEETING, AND NEW ISSUES (30 minutes).
New Assignments:
 - A. Annual review and renewal of TGs and TRGs in section
 - B. To be determined
- VI. IDENTIFY SHARED OPPORTUNITIES AND CHALLENGES FOR SECTION (10 minutes).
Society Strategic Plan? Strategic Plan for Research?, Sustainability Roadmap?, Handbook workshop recommendations?, etc.
- VII. REVIEW SECTION MBOs (10 minutes)

TC/TG/TRG CHAIRS (25 minutes)

Additional Announcements/Reminders:

- 1. 11-12 Rosters Access & Distribution
- 2. TC/TG/TRG Chair's Training Workshop Reminder
- 3. Location of Section Head Mailboxes at this Society meeting
- 4. Useful TC/TG/TRG Chair Information on ASHRAE website
- 5. New MTGs that have been formed
- 9. 2011-2012 Hightower Award & Service to ASHRAE Research Award Nominations
- 10. Upcoming Conferences (TBD.)
- 11. Thank retiring TC/TG/TRG chairs in section

12. Thank You Letters to Employers

IX. REMARKS FROM SOCIETY LIAISONS TO TC/TG/TRG CHAIRS

Liaison members from Research Administration, ASHRAE Program, Handbook, Standards, and other standing committees will have an opportunity to describe their committee activities that relate to the TC/TG/TRG functions, if time permits. Written announcements must be provided as a minimum by liaisons in order to have an opportunity to speak at this meeting.

ADJOURN

Announcements and Reminders for TC/TG/TRG Chairs Montreal 2011

1. 11-12 Roster Access and Distribution

Remember, the 2010-2011 Roster is in effect until after the Montreal meeting. The new rosters for 2011-2012 will go into effect on July 1, 2011 based upon the update information that each TC turned into their section head last January.

By now, each TC chair should have received a PDF & MS-Excel file of their 2011-2012 roster from staff for distribution to the TC. In addition, each member can view all of the rosters of their committees on the ASHRAE Website. Go to www.ashrae.org, click on the "Membership" tab in the header, click on "Manage Your Membership" text in the left sidebar, and log in (if you have not logged in lately, you might need to set up a new username and password). Click on the "Biographical Record System" link. Now, you should see your current "bio info". Click on "My Committees" on the left sidebar; all of the committees you are a member of will appear. Click on the "blue" roster text at the left hand side of a committee to reveal the roster with linked contact information. Make sure everyone on your committee also knows how to access the roster.

2. TC/TG/TRG Chair's Training Workshop Reminder

Sunday June 26 9:45-10:45a in the Hilton Hotel, Cote St. Luc Room (Lower level floor). As with the Breakfast meeting, both the Chair and Vice-Chair are expected to attend; attendance will be tracked so that we can assess who has been trained. Bring questions - if you need an answer, it's quite likely others also need the same answer. This particular session will also include a brief presentation and Q&A session with the chair of the Conferences & Exhibitions Committee (CEC) chair, Bill Dietrich, concerning the meeting technical program and recent or planned changes to it.

3. Location of Section Head Mailboxes at this Society meeting

Just outside ASHRAE Headquarters Office (Fairmont Hotel - Convention Level - Saint-Laurent Room).

4. Useful TC/TG/TRG Chair Information and forms on ASHRAE website

Information for TC/TG/TRG chairs can be found on the Technical Committee page of the ASHRAE website at the following link:
<http://www.ashrae.org/technology/page/104>.

The TC/TG/TRG Manual of Procedures (MOP) has been revised to include a new committee type, Multidisciplinary Task Groups (MTGs). MTGs are different from TCs, TGs, and TRGs. The objective of the MTG is to first try and better coordinate and focus the activities of the affiliated TC and non-TC groups (EHC, REF, SSPCs, outside groups, etc) that make-up the MTG on the task for which the MTG was created without duplicating the functions of a TC or TG so that the task can be completed as efficiently as possible. In special cases, MTGs may be authorized by TAC to assume some TC/TG functions, such as research, if it is deemed necessary to better complete their task assignment. Since the need, purpose, and progress of

each MTG is reassessed and reaffirmed by TAC each year, there are no term limits for the MTG Chair, Vice Chair, Members and Alternates.

5. Status on Tech. Council Steering Committees (BIM, Bldg. Performance Metrics)

The Tech. Council Steering Committees on Building Information Modeling (BIM), and Building Performance Metrics, have been converted by TAC into two new MTGs starting July 1, 2011. TAC has also approved since the Las Vegas meeting the formation of the following two new MTGs:

MTG.EEC Energy Efficient Classification of General Ventilation Air-Cleaning Devices

MTG.ET Energy Targets

6. CEC proposed or recently implemented technical program changes

CEC is working on ways to improve the quality of the technical program and they would like suggestions from the TCs on what parameters should be used by end users to rate and evaluate program sessions at the meeting.

TCs are also encouraged at this meeting to provide to their section head a list of TC members that are willing to possibly serve as a session chair and/or paper reviewer for future meetings. Please provide TC#, name, e-mail address, and areas of expertise for each individual on list. The information will be compiled into a database for use by CEC.

Also, the TC/TG/TRG Chair's Training Workshop on Sunday morning will include a brief presentation and Q&A session with the chair of the Conferences & Exhibitions Committee (CEC) chair, Bill Dietrich, concerning the meeting technical program and recent or planned changes to it.

7. TC/TG/TRG Websites

Is your committee website up to date? If not, please ask your webmaster to at least post the latest minutes and the Montreal meeting times and agenda. If your website has been neglected, add an action item for this meeting to appoint a responsible member of the TC/TG/TRG who will bring it back to life. This form of communication is critical to the efficient operation of your committee, and for attracting new members.

TAC and the Electronic Communications Committee (ECC) plan to stage a webinar this fall on how to set-up and maintain a basic TC website using the ASHRAE server and TC website template. Watch for future announcements concerning this webinar.

8. ASHRAE Google Sites & Groups tools for TCs/TGs and TRGs

Other tools that ECC is recommending that TCs use for their online collaboration space instead of a password protected "Members Only" folder on their TC website is Google Groups and Sites. Among other benefits, all members of the Google can post new information to the Site instead of just the TC webmaster.

TAC and the Electronic Communications Committee (ECC) plan to stage a webinar this fall on how to set-up and maintain a basic ASHRAE Google Group and Site. Watch for future announcements concerning this webinar.

The webinar that was given last fall on this subject is also posted on the Technical Committee page of the ASHRAE website.

9. Hightower Award Nomination Process and Deadline

Nominations for the 2011-2012 George B. Hightower Technical Achievement Award are due to you Section Head by September 1, 2011. The award recognizes outstanding technical leadership and contributions on a TC/TG/TRG during the past Society year, excluding research and standards activities. Please go to the following link to learn more about the award:
<http://www.ashrae.org/technology/page/104>.

10. Upcoming Workshops and Conferences:

- 10th IEA Heat Pump Conference 2011 (Heat Pumps - The Solution for a Low Carbon World), June 27-August 31, 2011 - Web Conference Due to Earthquake. <http://www.hpc2011.org/>
- ECOS 2011 (24th Intl Conference on Efficiency, Cost, Organization, Simulation & Environmental Impact of Energy Systems), July 4-7, 2011. <http://www.ecos2011.com/>
- 23rd IIR International Congress of Refrigeration, August 21-26, 2011, Prague, Czech Republic. <http://www.icr2011.org/>
- 48th AICARR International Conference, September 22-23, 2011, Lago Maggiore, Italy. <http://www.aicarr.org/>
- ISHVAC 2011: 7th International Symposium on Heating, Ventilating and Air-Conditioning, Nov. 6-9, 2011, Shanghai, China. <http://www.ishvac2011.org>
- Building Simulation 2011: 12th International Conference of the International Building Performance Simulation Assoc (BS2011), Nov. 14, 16, 2011. www.bs2011.org

11. Retiring TC/TG/TRG Chair Certificates

TC chairs that are completing their terms as chair at this Society meeting will be presented with a certificate of appreciation. Please coordinate with your Section Head as to when and where at the meeting you would like to be presented with the certificate (Section meeting or TC meeting).

12. Thank You Letters to Employers

ASHRAE President - Lynn Bellenger is offering to send letters of appreciation to employers whose support contributes significantly to employees' participation at all levels of the Society. Committee members who have served ASHRAE during the 2010-2011 Society year will receive an email during the month of July with

information on how to submit a request for the ASHRAE President to send a thank you letter to their employer. A link to the request form will be included in the letter.

Thank you letters will be sent to employers in late July or early August.

13. Upcoming Program Dates

Chicago Meeting - January 21-25, 2012

- Theme: High Performance Buildings, Integrated Design, Energy Modeling and Specialized Applications
- Conference Paper Abstract/Full Technical Papers due April 18, 2011
- Conference Papers Submitted for Review are due July 8, 2011
- Chicago Seminar and Forum Session Proposals are due August 12, 2011
- Conference Website: <http://www.ashrae.org/chicago/>

San Antonio Meeting - June 23-28, 2012

- Conference Site Live: June 20, 2011
- Conference Paper Abstract/Full Technical Papers due September 26, 2011
- San Antonio Seminar and Forum Session Proposals are due February 13, 2012
- Conference Website: <http://www.ashrae.org/sanantonio/>

The Conferences and Expositions Committee (CEC) oversees ASHRAE's annual and winter conferences and other specialty conferences and expositions globally. The CEC continually works to improve the conference experience for all attendees. To help keep a "pulse" on the technical issues facing professionals in the HVAC&R marketplace, the CEC seeks ideas for tracks for the San Antonio and annual and winter conferences beyond as well as topics for specialty conferences from TC members.

Please submit your suggestion using the following link:
<http://www.ashrae.org/events/page/2537>

14. Upcoming Document Peer Reviews

- Peer Review for the 60% Draft of the Performance Metrics Protocols - Best Practices Guide - Online Review Period - June 13 to June 30, 2011



News

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
1791 Tullie Circle, NE • Atlanta, GA 30329-2305 • 404-636-8400 • www.ashrae.org

Presenter Proposals Due July 15th

ASHRAE Announces Call for Presenters for Its High Performance Buildings Conference

ATLANTA – Building upon its 2009 Net-Zero Energy Conference, ASHRAE seeks to advance the industry's efforts to change the energy-use aspects of the built environment through its High Performance Buildings Conference: A Focus on Deep Energy Savings, March 12-13, 2012 in Mission Valley (near San Diego), Calif.

This conference will guide building design professionals, building owner/managers, building operating staff and government officials about what works and what doesn't when tackling major improvements in energy efficiency, renewable applications and operating practices. With an attendance limited to 300, the conference will allow an exchange of ideas and dialogue to facilitate understanding of current energy saving efforts, share best practices and to establish an action plan to substantially improve energy efficiency in buildings.

The conference will offer two tracks: 1) a technical applications track focusing on strategies, technologies, tools, measured performance and optimal operations, and 2) a policy track with a focus on current and future legislation and related programs in the areas of standards, performance rating and labeling, disclosure laws, etc. The conference's target facilities include both existing and new construction non-residential buildings. Case studies, especially from the region, are requested.

Call for Presenters

Presentation abstracts (300-500 words) are requested on the following topics:

- Applications results
- Energy audits
- Commissioning
- Benchmarking of utility consumption
- Economics, design and construction, and
- Energy efficiency strategies
 - Building envelopes
 - Lighting and daylighting
 - Passive
 - HVAC
 - Plug loads

Presentation proposals are due July 15, 2011. Decisions on proposal requests will be made by August.

For more information or to submit a presentation proposal, visit www.ashrae.org/HPBconference.

Montreal Conference CEC update for the Technical Committees – June 26, 2011

Bill Dietrich (CEC Chair) will be at the Sunday TC Chair Training session Sunday at 9:45 covering some of the conference basics.

A training session for TC Program Subcommittee chairs will be held on Tuesday June 28 from 11:15 am – 12:00 in the Speakers Lounge (Hilton, Fontaine Salons C/D). This is an excellent chance to ask questions and voice any concerns or suggestions you may have.

Chicago 2012 Conference Update

Theme "The Impact of HVAC&R on our Daily Lives"

The Chicago Conference will be held January 21 to 25, 2012. **Remember August 12th is the deadline for submission of seminar and forum proposals.** Don't forget to include six (6) Learning Objectives and ten (10) Questions/Answers for the session.

Since we are also submitting these programs to USGBC for LEEP AP[®] continuing education credits, a speaker biography (~100 words) is also required. Please try to have all this information together with the program submission.

The tracks are:

- **Track 1** Energy Efficiency – New Technologies and Applications – Track Chair: Kelley Cramm, kelly.cramm@hei-eng.com
- **Track 2** Integrated Design – Track Chair: Dennis Knight, dKnight@wholebuildingsystems.com
- **Track 3** Specialized Applications – Healthcare, Laboratories, and Data Centers – Track Chair: Ginger Scoggins, gscoggins@engineereddesigns.com
- **Track 4** Energy Modelling Applications – Track Chair: Bill Dean, bill.dean@nrc.ca
- **Track 5** Installation, Operation & Maintenance of HVAC Systems – Track Chair: Sarah Maston, sarah@advancedbuildingperformance.com
- **Track 6** High Performance Buildings – Track Chair: Mike McDermott, mxm@grummanbutkus.com
- **Track 7** HVAC&R Systems and Equipment – Track Chair: Pamela Androff, pamela.androff@gmail.com
- **Track 8** Professional Skills – Track Chair: Rob Risley, rrisley@fpl.com
- **Track 9** HVAC&R Fundamentals and Applications --Track Chair: Julia Keen, jkeen@ksu.edu
- **Track 10** Refrigeration -- Track Chair: Wade Conlan, wade.conlan@exp.com

San Antonio 2012 Conference Update

Themes have been eliminated starting with San Antonio. The Conference will be held June 23 to 27, 2012. The website went live on June 22, 2011.

There is still time to propose conference papers for the San Antonio Conference. Remember that the conference paper is an eight page paper that is published in ASHRAE Transactions and affords the author the chance to give an oral presentation. **Conference paper abstracts are due September 26, 2011. See the website, www.ashrae.org/sanantonio for details on the submission process.**

We have had more TCs sponsoring conference paper sessions as an alternative to regular seminars. The TC would provide the Conference Paper session chair in addition to the authors submitting their abstracts. The session chair is responsible for finding reviewers for the conference papers in his/her session. It is an excellent way for the TC to engage in a topic and provide published material as an end result.

The Tracks are:

- **Track 1** HVAC&R Systems & Equipment – Track Chair: Jon Cohen, jcohen@hohwatertechnology.com
- **Track 2** HVAC&R Fundamentals and Applications – Track Chair: Charlie Tenck, chenck@wralp.com
- **Track 3** Integrated Energy Systems – Track Chair: Mike McDermott, mxm@grummanbutkus.com
- **Track 4** Building Modeling Applications – Track Chair: Pam Androff, pamela.androff@gmail.com
- **Track 5** Refrigeration Applications – Track Chair: Monte Troutman, troutman@bceng.com
- **Track 6** Indoor Environmental Applications – Track Chair: Robert Baker, rbaker@bbienviron.com
- **Track 7** Integrated Building Controls – Track Chair: Sarah Maston, sarah@advancedbuildingperformance.com

High Performance Buildings Conference:

March 12-13, 2012

Mission Valley (near San Diego), CA

A call for presenters is currently open through July 15th. Submit online at www.ashrae.org/HPBconference.
A separate flyer is included with this handout.

Questions?

If you have any questions regarding the upcoming Annual and Winter Conferences, or the Specialty Conferences, please contact us. You can contact the track chairs for the Annual and Winter conference (contact information is on the Conference websites), or contact one of the CEC members listed below.

Conferences and Expositions Committee

Bill Dietrich – Chair (410-799-6237)

bdietrich@baltimoreaircoll.com

Dennis Wessel – Vice Chair (216-391-3700) –Incoming Committee Chair

dwessel@kapinskieng.com

Ben Leppard – Chair, Chicago Conference (770-270-1588) – Incoming Committee Vice-Chair

ben@leppardjohnson.com

Dunstan Macauley – Chair, San Antonio Conference (202-494-0874)

dmacauley@encongroup.com

Tony Giometti, ASHRAE Staff Liaison (404-636-8400)

giometti@ashrae.org

We are always in the Speakers Lounge during the Conference, so please stop by in Montreal if you have any questions.