

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 8.10 DATE 28 June 2011

TC/TG/TRG TITLE Mechanical Dehumidification Equipment and Heat Pipes

DATE OF MEETING Tuesday, 28 June 2011 LOCATION Montreal, Quebec, Canada

VOTING MEMBERS PRESENT	YEAR APPTD	VOTING MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Titu Doctor	2010	Samuel Sami (chair)	2008	Bill McQuade, Section Head
Ralph Kittler	2009	Julie Ferguson	2007	Dave Yashar, new Research Liason
Ness Lakdawala	2008	Scotty Hutto	2008	
Harry Milliken	2010			
Tim Sechrist	2007			See attached attendance for:
Randy Schrecengost	2010			Corresponding Members
				Guests

DISTRIBUTION

All Members of TC plus the following:	
TAC Section Head:	Bill McQuade
TAC Chair:	Charles Wilkin
All Committee Liaisons as Shown on Rosters:	Rick Hermans, Research Martin Dieyckx, Standards David John, Handbook
Manager of Standards:	Stephanie Reiniche
Manager of Research & Technical Services:	Mike Vaughn

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ADDITIONAL ATTENDANCE

Corresponding Members

- Danny Abate
- John Bloemer
- Steve Brown
- Craig Burg (vice chair)
- Reinhold Kittler
- John Murphy
- Mark Scott

Guests

- John Gierzak
- Alois Malik

Technical Committee 8.10
Mechanical Dehumidifiers & Heat Pipes
Meeting Agenda for 2011 Summer Meeting
Montreal, Quebec

Date: Tuesday, 28 June 2011

Place: Frontenac Room, Hilton Bonaventure, Montreal

Time: 3:30 PM to 6:00 PM

- | | | | |
|-----|---|----------------------------|-------------------------------|
| 1) | Call to Order | | S. Sami |
| 2) | Introduction of members | | |
| 3) | Determination of Quorum | | S. Sami |
| 4) | Chairman Report and Announcements | | S. Sami |
| 5) | Agenda Additions/Changes | | All |
| 6) | Liaison Reports | | |
| | TAC chair: Charles Wilkins | Research: Rick Hermans | |
| | Section 8 Head: Bill McQuade | Standards: Martin Dieryckx | |
| | | Handbook: David John | |
| 7) | Approval of minutes from Las Vegas, NV meeting | | S. Sami |
| 8) | Membership/Roster | | S. Sami & Membership Chairman |
| | a) 2011-2012 Roster Update | | |
| 9) | Subcommittee Reports | | |
| | a) Research: | | J. Ferguson |
| | i) RTAR Residential Dehumidification Sizing | | |
| | ii) RAC response to 1566-WS | | |
| | iii) Status of 1565-TRP | | |
| | b) Program | | T. Sechrist |
| | c) Handbook | | Ralph Kittler |
| | i) Chapter 24 Draft update for review and comment | | |
| | ii) Request for information from TC 10.2 | | |
| | d) Standards | | C. Burg |
| | i) Updates on SPC 190 and SPC 198 | | |
| | ii) Standards 62.1 and 55 | | |
| | e) Web Site | | |
| 10) | Old Business | | S. Sami |
| 11) | New Business | | S. Sami |
| | a) CDC has a Model Aquatic Health Code (MAHC) out for public review where they are making OA recommendations based on Standard 62.1 and a few other HVAC design recommendations | | |

ASHRAE endorsed events

- 2011 Jul 4-7 - ECOS 2011
- 2011 Aug 21-26 - 23rd IIR International Congress of Refrigeration
- 2011 Sep 22-23 - 48th AICARR International Conference
- 2011 Nov 6-9 - ISHVAC 2011
- 2011 Nov 14-16 - Building Simulation 2011: 12th International Conference of the International Building Performance Simulation Association (BS2011)
- 2012 Jan 23-25 - International Air-Conditioning, Heating, Refrigerating Exposition (AHR Expo)
- 2012 Mar 27-30 - Mostra Convegno Expocomfort 2012
- 2012 Apr 18-20 - Fan 2012

Minutes for 2011 Summer Meeting (Montreal, Quebec, Canada)

Vice Chairman Craig Burg (filling in for Chairman Samuel Sami) called the meeting to order at 3:30 PM. There was a quorum present (6 of 9 voting members). Self introductions were made.

Liaison Reports

Section 8 Head (Bill McQuade)

- Stephen Duda is the incoming Section Head.
- Bill asked if we had any concerns that should be passed on to Technical Activities Committee (TAC).
- Conferences & Expositions Committee (CEC) is asking for ideas to help offset the cost of conferences.
- CEC is working on ways to improve the quality of the technical program and they would like suggestions from the TCs as to which parameters should be used to rate and evaluate program sessions and presenters.
- CEC is looking for volunteers to be conference paper reviewers and session chairs for future meetings.
- TAC and Electronic Communications Committee (ECC) plan to hold a webinar this fall on how to setup and maintain a basic ASHRAE Google Group and Site.
- YEA is planning a mixer event at the Chicago meeting.
- Nominations for the 2011-2012 George B. Hightower Technical Achievement Award are due to the Section Head by 1 September 2011. This award recognizes outstanding technical leadership and contributions on a TC/TG/TRG during the past Society year, excluding research and standards activities.

RAC Liaison, incoming (Dave Yashar, dyashar@nist.gov)

- 1565-TRP: Rick Hermans (outgoing RAC Liaison) will recommend re-bidding the project in October 2011 at the RAC meeting on 29 June 2011, but we need to submit an expanded list of potential bidders to Dave.
- 1566-WS: Rick Hermans suggested that we enlist a university professor who has experience conducting ASHRAE research to help re-write this work statement and re-submit with our responses to RAC's comments.

Handbook Liaison (David John)

- Liason did not visit the TC meeting.

Standards Liaison (Martin Dieryckx)

- Liason did not visit the TC meeting.

Section 8 Chairs Meeting Report

- See report from Section 8 Head (above)
- See list of upcoming events (included with agenda)

Meeting Minutes

Motion: A motion was made by Randy Schrecengost and seconded by Ralph Kittler to approve the minutes from the 2011 Winter Meeting (Las Vegas, NV, January 2011). Motion carried 6-0-0-3-CNV.

Subcommittee Reports

Membership Subcommittee Report (Craig Burg and John Murphy for Dr. Samuel Sami)

- The following roster changes will take effect on 1 July 2011:
 - Julie Ferguson's term as a Voting Member ends, and she will become a Corresponding Member
 - Tim Sechrist's term as a Voting Member ends, and he will become a Corresponding Member
 - John Bloemer will become a Voting Member
 - Alois Malik and Eric Erdman will become Corresponding Members
- Alois Malik and John Murphy both expressed interest in becoming Voting Members next term

Research Subcommittee Report

- The 2010-2015 Research Strategic Plan is available at www.ashrae.org/research
- Status of current projects:
 - 1565-TRP, "Development of the ASHRAE Design Guide for Dedicated Outdoor Air Systems" (John Murphy)

- TC voted to approve and co-sponsor this work statement during the June 2009 meeting. Work statement was approved by the Research Administration Committee (RAC) in October 2009, but did not make the list of projects sent out for bid (insufficient funds for ASHRAE Research).
- In February 2011, funds were finally available and RAC approved releasing this project for bid. The RFP was distributed on 15 March 2011. Unfortunately, no proposals were submitted to ASHRAE by the May 15 deadline. ASHRAE contacted our list of recommended bidders; two of the three replied and indicated that they were too busy to bid the project.
- The Proposal Evaluation Subcommittee is currently developing an expanded list of recommended potential bidders, and will submit that to RAC with a request to re-release this project for bid in October 2011.
- 1566-WS, "Equations to Estimate Evaporation Rates From Wetted Surfaces" (Harry Milliken)
 - Harry has drafted a response to comments from the Research Administration Committee.
 - Steve Brown and Randy Schrecengost offered to help Harry solicit feedback from other researchers for improving this work statement.
- Research projects to be proposed:
 - RTAR on Residential Dehumidifier Sizing
 - Modify RTAR with an estimated budget (\$50,000) and project duration (12 months).
 - John Bloemer will send the revised RTAR to Julie Ferguson for submission to RAC by the next submission deadline.

Motion: A motion was made by Randy Schrecengost and seconded by Tim Sechrist to approve the RTAR titled "Develop a Method to Determine Residential Whole-Home Dehumidification Capacity Requirements" and submit to RAC. Motion carried 5-0-0-4-CNV.

- TC 10.2 (Automatic Ice Plants & Skating Rinks) has requested us to co-sponsor the RTAR titled "Develop and Validate Ice Arena Space Conditioning Load Calculation Methods."

Motion: A motion was made by Randy Schrecengost and seconded by Ralph Kittler to co-sponsor (with TC 10.2) the RTAR titled "Develop and Validate Ice Arena Space Conditioning Load Calculation Methods." Motion carried 5-0-0-4-CNV.

Program Subcommittee Report (Tim Sechrist)

- Seminar 21, "Energy Recovery Issues in Dedicated Outdoor Air Systems," was held on Monday morning. Speakers were John Murphy, Stan Mumma, and Craig Burg. Attendance was very good, with standing room only.
- Programs to submit for Chicago (due 12 August 2011)
 - 1) Seminar: Natatorium Design (chair: Tim Sechrist)
 - a) Harry Milliken (envelope construction)
 - b) Ralph Kittler (ventilation air)
 - c) Mark Scott (assurance of proper pressurization)
 - 2) Seminar: "Operating Experiences with Dedicated OA Systems" (chair: Craig Burg)
 - a) John Murphy (balanced vs. unbalanced airflows, data from ASHRAE HQ system?)
 - b) Steve Brown (monitoring of two similar buildings)
 - c) Titu Doctor

Motion: A motion was made by Tim Sechrist and seconded by Rand Schrecengost to submit two seminars (listed above) for Chicago. Motion carried 5-0-0-4-CNV.

- Craig Burg suggested a possible future forum, titled "Should ASHRAE Fund Research to Develop Better Energy Models for Dedicated OA Systems?"

Handbook Subcommittee Report (Ralph Kittler)

- Revised chapter was reviewed, discussed, and finalized during the Subcommittee meeting.
 - Change "hot gas reheat coil" to "refrigerant reheat coil" throughout text and figures

- Change “makeup air” or “ventilation air” to “outdoor air” throughout text and figures, except for in the discussion of process applications (page 9), where “makeup air” should be changed to “replacement air”
- Change “makeup air dehumidifier” to “dedicated outdoor air system (DOAS) unit” throughout text and figures
- The TC voted to approve the revised chapter, minus the recently-submitted new section on “Industrial Dehumidifiers.” Ralph will request the TC to review and comment on this new section in hopes that Handbook Committee will accept it after today’s deadline. If not, it will be submitted for the electronic version.
- Ralph will incorporate all revisions into the final draft and send back to the TC members.

Motion: A motion was made by Ralph Kittler and seconded by Harry Milliken to approve the revised “Mechanical Dehumidifiers and Related Components” chapter, and submit it to Handbook Committee for publication in the 2012 *HVAC Systems and Equipment* volume. Motion carried 5-0-0-4-CNV.

- John Murphy reported that the Handbook Committee has approved our proposal (approved at our June 2010 meeting in Albuquerque) to add a new chapter, titled “Dedicated Outdoor-Air Systems,” to the *HVAC Systems and Equipment* volume of the ASHRAE Handbook. The plan is for this new chapter to be drafted by the principal investigator for 1565-TRP (DOAS Design Guide), then it will go through the normal process of being reviewed and approved by this TC.

Standards Subcommittee Report (Craig Burg)

- SPC 190 met today and is close to finalizing the draft for a second public review. (Titu Doctor)
- SPC 198 met today and is on track for submitting a public review draft by the December 28 deadline. (Craig Burg)

Webmaster

- The address for the TC web site is <http://tc810.ashraetcs.org>
- Craig noticed that the web site was a bit out-of-date, and he offered to contact Scotty Hutto to make sure it gets updated.

Old Business

- Randy Schrecengost will take our change proposal for modifying the ventilation rates to accommodate wet deck areas (approved at the January 2011 meeting in Las Vegas) to SSPC 62.1.
- Danny Abbate (AHRI) reported on the current status of related AHRI standards:
 - AHRI 910 (pool dehumidifiers) has been approved and is currently available for download from the AHRI web site.
 - AHRI 920 (DX-DOAS dehumidifiers) is finished, but waiting for completion of the corresponding ASHRAE Standard 198 (method of test) before publication.
 - Working on a draft of AHRI 930 (wrap-around heat exchangers), with expected publication in 2012.
 - A new standard (AHRI 1270/1271) on the requirements for seismic qualification of HVAC&R equipment is nearly complete, with expected publication in September 2011.
- Craig Burg will follow-up with Dr. Sami to determine if our recommendation to change ASHRAE Standard 55 was submitted to SSPC 55.

New Business

- The Centers for Disease Control released a Model Aquatic Health Code (MAHC) for public review (deadline for comments was June 12). It includes OA recommendations based on Standard 62.1, as well as a few other recommendations related to HVAC design. Several members of this TC submitted comments on this code.

The times for the next meeting will be requested as follows. Subcommittee and SPC chairs are responsible for submitting requests for their meeting times and rooms.

Committee	Day	Time
SPC 198	Tuesday, January 24, 2012	Noon-1:00 PM
SPC 190	Tuesday, January 24, 2012	1:00-2:00 PM
TC 8.10 Subcommittee	Tuesday, January 24, 2012	2:00-3:30 PM

TC 8.10 Main Committee	Tuesday, January 24, 2012	3:30-6:00 PM
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The Secretary will send the draft minutes to ASHRAE Headquarters and publish them on the TC web site.
The Secretary will send the approved minutes for the Las Vegas meeting to ASHRAE HQ and update them on the TC web site

Motion: A motion was made by Randy Schrecengost, and seconded by Ralph Kittler, to adjourn at 5:52 PM.