

**These draft minutes have not yet been approved by the Technical Committee.
They will not be the official minutes until approved at the subsequent meeting.**

**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 NO TC 8.12 DATE 1/29/2007

TC TITLE Desiccant Dehumidification Equipment and Components

DATE OF MEETING 1/29/2007 LOCATION Dallas, TX

VOTING MEMBERS PRESENT	YE AR AP PT D	In Attendance		Email address
Doug Kosar	04	X		dkosar@uic.edu
Steve Brickley	04	X		steve_brickley@munters.com
Stan Slabinski	03	X		slabinski@bry-air.com
Andrew Mongar	05			andrewmongar@yahoo.com
William Lull	05	X		tc812@garrisonlull.com
Rich Sweetser	05	X		rsweetser@energypartners.com
Deepak Pahwa (International)	05	X		dpahwa@pahwa.com
CORRESPONDING MEMBERS & GUESTS		In Attendance		Email address
Steve Slayzak (CM)		X		steve_slayzak@nrel.gov
Dharam Punwani (CM)		X		dpunwani@avalonconsulting.com
Lew Harriman (CM)		X		lewharriman@masongroup.com
Paul Pieper (CM)		X		paul.pieper@carrier.utc.com
Ronnie Moffitt (CM)		X		rmoffitt@trane.com
Charlie Cromer (CM)		X		charlie@fsec.ucf.edu
Bruce Urban (CM)		X		bruce_urban@fmc.com
Andy Lowenstein (CM)		X		ail@air.com
Milton Medder (CM)		X		mmedder@designbuildsystems.com

Wayne Caudle (CM)		X		wcaudle@rotorsource.com
Jerry Wurm (CM)		X		schvejk@aol.com
Eric Johnson (CM)		X		ericjohnson@satx.rr.com
Bill Worek (CM)		X		wworek@uic.edu
Bill Girffiths (CM)		X		Wcg44@optonline.net
Tim Wagner (CM)		X		wagnertc@utrc.utc.com
Nandini Mouli		Guest		Nandini.c.mouli@usa.dupont.com
Francisco Torres		Guest		ptorres@icaen.gencat.net

* request to add to corresponding member list

DISTRIBUTION

All Members of TC/TG/TRG plus the following:

TAC SECTION HEAD:	Bryan Becker
TAC CHAIR:	Eckhard Groll
ASHRAE MANAGER OF TECHNICAL SERVICES:	Tara Thomas
ALL COMMITTEE LIAISONS AS SHOWN ON TC/TG/TRG ROSTERS:	Hank Bagheri (Hdbk Liaison 2009 Fundamentals) Doug Fitts (Hdbk Liaison 2008 Systems & Equip) Lynn Werman (Program Liaison) Michael Middleton (Chapter Tech Transfer Liaison) Steve Skalko (Standards Liaison) Ron Bailey (RAC Research Liaison)
MANAGER OF STANDARDS MANAGER OF RESEARCH	Claire Ramspeck Mike Vaughn

Minutes of the ASHRAE TC 8.12 Meeting
Dallas, Texas, Monday January 29th, 2007

- 1) The meeting was called to order by the TC Chair, Doug Kosar, at 2:19 pm.
- 2) The TC 8.12 scope was read aloud by Doug Kosar to the attendees by.
- 3) Self-introductions were made by those in attendance.
- 4) Roll call: 6 of 7 voting members present; quorum was met. In addition to the voting members, 15 corresponding members and 2 guests were present for a total attendance of 23.
- 5) The agenda for this meeting was approved, 6-0-0.
- 6) The previous Quebec City meeting minutes were approved without correction, 6-0-0.
- 7) Doug Kosar reported the following news from the TC Section 8 Meeting:
 - a. The Section 8 TC chair established the following priorities for all the TC chairs:
 1. Annual TC roster updates
 2. 6 month TC website updates
 3. TC activity feedback form submission after every meeting
 4. ASHRAE TC liaison questionnaire completion after this meeting
 - b. The individual TC chairs expressed these concerns to the Section 8 chair
 1. lack of volunteers for TC activities, including program activities
 2. RTAR's are getting "lost" in process though the liaisons
 - c. The TC chairs all felt that concern #1 will be compounded by the new registration policy for the Long Beach Meeting that will provide full complementary meeting registration only to **paper authors**, limit **seminar speakers and forum moderators** to one day meeting registration, and require **session chairs** to purchase registration. TC chairs indicated that they would pass a motion in their individual TC meetings to protest this new registration policy by citing:
 1. the negative impacts on future ASHRAE program quality, especially since we are already struggling for volunteer input to the TC driven meeting programs
 2. the lack of an adequate justification for this sudden policy change by ASHRAE that would take away one of the few incentives for volunteers to participate in the TC driven meeting programs

TC 8.12 believes that this decision will negatively affect program quality and meeting attendance. TC 8.12 passed a motion, 6-0-0, that recommends the ASHRAE Board of Directors provide the rationale for this registration policy change and an explanation as to how this decision will improve program quality before this decision is implemented.

- d. An additional \$0.8M in research money has become available, in addition to the \$3.0M already obligated.

8) The subcommittee chairs provided the following reports:

- a. Handbook Chair Steve Brickley – After the last meeting, Steve e-mailed the draft of Chapter 22 *Sorbents and Desiccants* for the 2009 Handbook of Fundamentals to TC members and received no feedback. The final version should be approved and voted on for acceptance by this time next year in New York City, if not before in Long Beach. Ron Moffit and Stan Slabinski will review chapter revisions with Steve.
- b. Program: Chair Andrew Mongar (absent) – Steve Slayzak reported that this meeting’s co-sponsored seminars with TC 8.10 and 8.11, Seminars 11 and 28 on *Energy Efficient Outside Air Systems, Parts 1 and 2*, respectively, were full. Nothing had been originally been scheduled for Long Beach, Doug Kosar volunteered to moderate a forum and prepare a program submission by the February 9 deadline on *Do We Need Drier Air in Buildings?*, which will explore the market drivers for operating below conventional 55 °F dew point levels for thermal comfort, down into the 45 °F dew point range.
- c. Research: Chair Steve Slayzak – reported on the following activities:
 - i. ASHRAE has requested TC Research chairs to provide feedback as to why there is a lack of RTARs submitted. Steve suggested the following reasons:
 - 1. “Black Hole” – Do not understand what happens to RTARs. Cyclic - Lots of money, then no money. Process is long and arduous taking a significant level of effort to succeed, and you often need to be physically present at ASHRAE RTAR review meetings.
 - 2. “ASHRAE Hurdles” – How much of HVAC community is impacted? Previously if not large enough, ASHRAE would not commit. This is problematic for “niche” technologies like desiccants.
 - ii. There were no bids on TC 8.12 TRP “Guidelines for Selection of Desiccant Equipment at Altitude”. Steve is to provide feedback to ASHRAE on why there were no bids.
 - iii. TC members are encouraged to submit new research concepts for RTARs. Steve pointed out that no other TC 8.12 research is currently in the queue and he welcomes input on research topics. Three topics were put forward at the meeting for discussion:
 - 1. Bill Lull – Cosponsored research with TC 2.3 to address humidity interaction issues with sorbents in air cleaners.
 - 2. Charlie Cromer/Doug.Kosar – Research on the application of Brunauer Type 3 desiccant dehumidifiers in emerging closely coupled DX cooling coil products, possibly cosponsored with TC 8.10 and/or TC 8.11.
 - 3. Odor retention and release by sorbents/desiccants, possibly cosponsored with TC 2.3 and/or TC 5.5. The following discussion ensued:

- a. Bede Wellford, guest, indicated that it was not an issue for TC 5.5 and that it does not happen often with existing equipment nor is it normally a consideration with equipment selection. There are specific companies whose rotors are designed to eliminate VOCs, but are not desiccant dehumidification wheels.
 - b. Bill Lull, active in TC 2.3, noted research is needed on desiccant/sorbent performance at ppb levels versus ppm levels.
- iv. Steve Slayzak received no input from TC members for this Dallas meeting regarding research topics based on the ASHRAE Strategic Plan Directives.
- v. California Energy Commission has a new program to co-fund ASHRAE research projects up to \$50,000 each. That new program is called the Building Energy Research Grant (BERG) and information can be found at: http://www.energy.ca.gov/contracts/pier_berg/index.html .
- d. Education & Website: Chair Bill Worek – indicated there were 35 attendees on Sunday afternoon at the short course, *Designers Introduction for Commercial Desiccant Systems*, he taught with Mark Nunnally. Doug Kosar will be presenting a new short course, *Emerging Dehumidification Enhancements for DX Cooling Systems*, which will discuss Brunauer Type 3 desiccant dehumidifiers in emerging closely coupled DX cooling coil systems.
- e. Standards: Chair Wayne Caudle – reported on two standards activities:
- i. Standard 139 to be voted on at spring session and should be published quickly.
 - ii. Standard 174P had quorum in Dallas and OK'ed small final draft changes for email ballot prior to February 19 and will go for publication review then in March.
- f. Membership: Chair Doug Kosar – repeated his ongoing request that a Vice Chair is needed to succeed him. With no vice chair in line to take over after the Long Beach meeting, Doug introduced the idea of combining 8.12 with another TC, possibly TC 8.10, and received a mixed reaction. Doug will continue to recruit a vice chair. If no volunteers come forward, he will send letters to the desiccant companies most affected asking them for a commitment of personnel to TC 8.12, specifically someone to take over the chair position.
- 9) New Business: Lew Harriman introduced a new project that is underway to develop the ASHRAE *Guide for Hot & Humid Climates*. Compared to Lew's previous ASHRAE publication, *Humidity Control Design Guide*, which essentially focused on dehumidification, this next publication will be much more comprehensive and cover the totality of building design and operational issues in hot and humid climates.
- 10) Old Business: Other than Doug Kosar's quest for a vice chair, no old business was discussed.
- 11) The meeting was adjourned at 4:09 pm.