

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS,
INC.**

**1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400**

TC/TG/MTG/TRG MINUTES COVER SHEET

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

TC/TG/MTG/TRG No. T C 8.10 DATE 06/25/2013

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

DATE OF MEETING Tuesday, June 25, 2013 LOCATION Denver, Colorado

| MEMBERS PRESENT | VOTING MBER Y/N | YEAR APPTD | MEMBERS ABSENT | VOTING MBER Y/N | YEAR APPTD | EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE |
|---------------------|-----------------|------------|------------------|-----------------|------------|--|
| Craig Burg – Chair | Y | 2012 | John Murphy | N | 2012 | Stephen Duda, |
| Ralph Kittler – VC | Y | 2013 | Tom Rice | N | 2012 | Marcus D’Arcy |
| RSchrecengost - Sec | Y | 2012 | Ron Bailey | N | 2009 | Detlef Westphalen |
| Timothy Sechrist | Y | 2012 | Mike Balistreri | N | 2009 | Jon Winkler |
| Julie Ferguson | Y | 2012 | Tom Brooke | N | 2006 | Peter Vandermeulen |
| John Bloemer | Y | 2011 | Stephen Brown | N | 2009 | Eric Brodsky |
| Titu Doctor | Y | 2010 | Chris Check | N | 2010 | |
| | | | Kenneth Cooper | N | 2008 | |
| Alois Malik | Y | 2012 | Keith Coursin | N | 2008 | |
| Mark Scott | Y | 2012 | Bryan Dunnivant | N | 2004 | |
| Harry Milliken | N | 2012 | Florin Gavrilut | N | 2009 | |
| Daniel Abbate | N | 2010 | Hugh Henderson | N | 2006 | |
| Dane Christensen | N | 2010 | Walter Horn | N | 2009 | |
| George Yeager | N | 2013 | Scotty Hutto | N | 2012 | |
| | | | Reinhold Kittler | N | 2006 | |
| | | | Doug Kosar | N | 2005 | |
| | | | Ness Lakdawala | N | 2012 | |
| | | | Chang-Seo Lee | N | 2009 | |
| | | | Bruce Lindsay | N | 2012 | |



TC 8.10 - Mechanical Dehumidifiers and Heat Pipes
APPROVED Meeting Minutes
Summer Conference Meeting
Denver, Colorado 2013

| MEMBERS PRESENT | VOTING MEMBER Y/N | YEAR APPTD | MEMBERS ABSENT | VOTING MEMBER Y/N | YEAR APPTD | EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE |
|------------------------|--------------------------|-------------------|-----------------------|--------------------------|-------------------|---|
| | | | Stanley Mumma | N | 2008 | |
| | | | Sunil Nanjundaram | N | 2010 | |
| | | | Armin Rudd | N | 2010 | |
| | | | Samuel M.Sami, | N | 2012 | |
| | | | Mike Scofield | N | 2010 | |
| | | | Mirza Shah | N | 2009 | |
| | | | Brian Simkins | N | 2006 | |
| | | | Frank Surani | N | 2006 | |
| | | | Harout Topikian | N | 2010 | |
| | | | Richard Trent | N | 2010 | |
| | | | Josephine Lau | N | 2013 | |
| | | | Walter Grondzik | N | 2013 | |
| | | | Hugh McMillan | N | 2013 | |
| | | | Thursten Simonsen | N | 2013 | |
| | | | Paul Lindahl | N | 2012 | |
| | | | David Yanshar | N | 2011 | |
| | | | Eric Erdman | N | 2011 | |
| | | | Eric S Johnson | N | 2006 | |
| | | | Ken Jurgensmeyer | Y | 2013 | |



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DISTRIBUTION

| | |
|--|---|
| <i>All Members of TC/TG/MTG/TRG plus the following:</i> | |
| TAC Section Head: | Steve Duda |
| TAC Chair: | Walter T Grondzik |
| All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters: | David Yanshar, Research Liason James Aswegan, Standards Liason |
| Manager Of Standards | Stephanie Reiniche |
| Manager Of Research & Technical Services | Mike Vaughn |



TC 8.10 - Mechanical Dehumidifiers and Heat Pipes
APPROVED Meeting Minutes
Summer Conference Meeting
Denver, Colorado 2013

Date: Tuesday – June 25, 2013

Place: Sheraton Hotel – Room: Aspen

Time: TC 8.10 Subcommittee Committee Meeting – 2:00 PM to 3:30 PM

(The full committee meets from 3:30 PM to 6:00 PM in the same room.) Note: Since this is a relatively small TC, we discuss research, handbook, and program activities during one combined subcommittee meeting. Voting members are strongly encouraged to attend the subcommittee meeting. Corresponding members and guests are welcome.

Sub-committees

1. Call to order & Introductions

- Vice-Chairman Craig Burg called the meeting to order at 2:00 PM.
- Everyone introduced themselves.
- Twelve (12) people were in attendance with eight (8) voting members.

2. Request for Any Additions to Subcommittee Agenda

- No Requests for changes

3. Research:

- Research Subcommittee Chair, Julie Ferguson (was not present so Chair reviewed)
- 1565-RP: Development of the ASHRAE Design Guide for Dedicated Outdoor-Air Systems
 - Sponsoring TC: 8.10 (Mechanical Dehumidification Equipment and Heat Pipes) with Co-Sponsoring TCs: 1.12 (Managing Moisture in Buildings), 5.5 (Air-to-Air Energy Recovery), 8.12 (Desiccant Dehumidification Equipment and Components)
 - Currently, the PMS has recommended cancelling the Contract and to go find another contractor. Refer to the attached 1565-RP Status report
 - The motion and voting results from the recent e-mail ballot (dated 20 May 2013) is in the above status report.
- RTAR – 1566 - “Equations to Estimate Evaporation Rates From Wetted Surfaces”
 - Sponsoring TC: 8.10 (Mechanical Dehumidification Equipment and Heat Pipes) with Co-Sponsoring TCs: 8.12 and 9.8.
 - Harry Milliken summarized some items related to this and with discussions with the liaison. Still need to circulate the latest document and have a letter ballot. Next step would be to find bidders and start a Project Monitoring Sub-committee (PMS).
- RTAR - “Develop a method to determine residential whole home dehumidification capacity requirements.”
 - John Bloemer summarized status of this RTAR.
 - Discussions about other guides or booklets out there are not “good” for sizing and are conflicting in information.



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- John will take a shot at an RTAR. Others can then review and provide input. Once complete send out for a letter ballot so our TC can vote on it.
- TC Co-Sponsors:
 - TC 1.12 wants to co-sponsor
 - TC 8.12 now shows some interest.
- Action item for the RTAR on water treatment. TC 3.6 – Water Treatment was only one interested and never got back to us. Close this item.
- New proposed RTAR from Stan Mumma. We need everyone to review and get back to the committee ASAP. We need more details to review.
- Other proposed research project ideas (long-range research plan). If they are farther down the list then we either postpone or take it off our goals and objectives.
 - Harry's RTAR on wetted deck. Action item to follow up.
 - Ventilation Air for pools and appealing to Std 62.1. No response back to us.
 - Gas filtration for chloramines – Alois Malik.
 - Ralph Kittler – ductwork material for swimming pools – overall performance for material, corrosion, etc. Ralph to do an RTAR.
 - Work Statement 1630 – something related to scientific evidence and lower limit relative humidity levels for IEQ

4. Handbook

- Handbook Subcommittee Chair, Ralph Kittler began the overall discussion. The 2016 Chapter revision cycle (due June 2015).
- Stated that we still need to start a section on Industrial dehumidifiers and try to expand the Chapter 25 in that area.
- Need to refer to the two Method of Tests (MOTs) that we've completed.
- Discussed what to pull together for a pool Chapter for Natatoriums. Probably no much removed.
- Discussed the DOAS Chapter has been approved. Follow-up with John Murphy on status.
- Some items were discussed about where to introduce the ventilation air with the dehumidifiers. Need to add in a comment to our Chapter at a minimum.

5. Programs

- Proposed program ideas for future meetings by Tim Sechrist.
- Reviewed the list of possible programs, etc.
 - Had submitted a Forum and got rejected. Found out these are lower priorities. Conference and Technical Papers have priority.
 - Need to talk to Tract Heads, etc. related to seminars and presentations to determine what might be needed, necessary.



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- Discussed possible seminars:
 - AHRI Standard 910 with SPC 190 - Building pressurization on natatoriums
 - Something on SPC 198, and AHRI Standard 920 - DOAS
 - .All need to be submitted by August 19th.
 - Discussed something on overall operating experiences with DOAS systems.

6. Standards

- SPC 190 (SPC Chair - Titu Doctor) – Going to be published very soon.
 - Will discuss the interpretation still out during the main committee.
- SPC 198 (SPC Chair – Craig Burg) – Has been published
- Discussion about a MOT for residential / whole house dehumidification (AHAM only one out there). Put on hold since ASHRAE needs the standard from another group. DOE has apparently started a review of dehumidifiers. Tabled for later discussion.

7. Request for additions to the main committee meeting agenda

- No requests for additions to the agenda until main meeting.

8. Review of TC 8.10 goals and accomplishments since last published listing.

- No discussion or update as there was not time available in the Subcommittee.

9. Adjourned: At 3:33 PM.



TC 8.10 - Mechanical Dehumidifiers and Heat Pipes
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Denver, Colorado 2013

Date: Tuesday – June 25, 2013

Place: Sheraton Hotel – Room: Aspen

Time: TC 8.10 General Committee Meeting – 3:30 PM to 6:00 PM

(The full committee meets from 3:30 PM to 6:00 PM in the same room.) Note: Since this is a relatively small TC, we discuss research, handbook, and program activities during one combined subcommittee meeting. Voting members are strongly encouraged to attend the subcommittee meeting. Corresponding members and guests are welcome.

General Meeting

1. Call to order & Member Introductions

- Chairman Craig Burg called the meeting to order at 3:48 PM.
- Introduction of members and guests
- Roll Call was completed, with eighteen (18) people in attendance of which there were eight (8) voting members so a quorum was present. Julie Ferguson was a little late – but generated nine (9) voting member after the fact.

2. Request for any Additions to the Agenda:

- There were no other additions or changes to the agenda requested

3. Request for approval to Dallas Minutes

- One change was illustrated by Harry Milliken who was listed incorrectly as a Voting Member in Dallas. He was not a voting member.
- Member table indicating Present / Absent needs to be updated as well.
- With the changes above, acceptance of meeting minutes as modified, was moved by Ralph Kittler and seconded by Titu Doctor (passed 7-0-0-CNV). Ms. Ferguson did not vote on this item.

4. Roster Updates:

- Discussions about fact our Roster needs to be fixed – again.
- Steve Duda explained that Roster updates are being streamlined.

5. Liaison Reports

| | |
|---------------------|--------------------|
| Section Head | Steve Duda |
| TAC Chair | Walter T Grondzik |
| Handbook | Paul A Lindahl, Jr |
| Research | David Yanshar |

- TAC - Steve Duda (Head for Section 8)
 - Feel free to contact with any questions or comments - email sh8@ashrae.net
 - Mentioned the need to update bio on employment category.



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- Discussed Roster change modifications being worked on.

6. Chairman Announcements:

- A new Multi-Disciplinary Program Group (MPG) – working on Cold Climate Design Guide
- Updated TC’s Goals and Objectives – please review.

7. Subcommittee Reports

| | |
|------------------|----------------|
| Program | Tim Sechrist |
| Handbook | Ralph Kittler |
| Research | Julie Ferguson |
| Standards | Craig Burg |
| Webmaster | John Murphy |

• **Research Subcommittee Report (Craig Burg, Julie Ferguson)**

- 1565-TRP, “Development of the ASHRAE Design Guide for Dedicated Outdoor Air Systems” (John Murphy)
 - Discussion on status then Julie Ferguson moved we put this back out to bid and Ralph Kittler seconded. Motion passed 8-0-0-CNV
- RTAR 1566 - "Equations to Estimate Evaporation Rates from Wetted Surfaces"
 - Harry Milliken discussed and items will be summarized and sent for ballot vote.
- New Research proposal - Develop “Method to determine residential whole home dehumidification capacity requirements.”
 - John Bloemer - Action item is to re-write the RTAR and move forward.
 - Julie Ferguson to send out format on RTARs.
- Most all other options will be put on Hold Status and/or require more discussions.
 - Mentioned Stan Mumma’s new RTAR and will be sent out for review and editing.
 - Discussed the Work Statement 1630 again for the Committee. General consensus is to review and take a letter ballot later.
 - Design and performance of duct materials in indoor poor environment - Ralph Kittler to write RTAR. Then send out letter ballot.
 - RTAR – “Gas Filtration Eliminating Chloramines”. Alois Malik will continue to work on this one.

• **Program Subcommittee Report (Tim Sechrist)**

- One Forum was submitted for Denver and rejected by John Bloemer on the Residential Dehumidification items “What do we need for a Residential Dehumidification Guide”. Will not resubmit.
- Discussed two seminars for New York – modify and move toward Seattle as necessary.
 - AHRI Standard 910 with SPC 190 – building pressurization on natatoriums – possibly Mark Scott.
 - Something on SPC 198, and AHRI Standard 920 – DOAS



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- Discussion on 2 or 3 speakers and time frame for it. Need to get someone bring in some application to prevent it from being too dry.
- Tim moved and Ralph seconded and it passed 8-0-0-CNV
- **Handbook Subcommittee Report (Ralph Kittler)**
 - Ralph to circulate a word document for the committee to review.
 - He will talk with John Murphy on the DOAS information.
 - An expanded version of industrial dehumidification needs to be added and included
- **Standards Subcommittee Report (Craig Burg)**
 - SPC 198 (SPC Chair – Craig Burg) – Has been published
 - SPC 190 (SPC Chair - Titu Doctor) – Going to be published very soon.
 - Discussed the open request for the interpretation still out.
 - Titu will send out a letter within the next few weeks to the SPC to review. This will include a letter ballot.
 - There is a proposed AHRI 930 for dehumidification equipment and ASHRAE may want to come up with a MOT for it. Something for our TC to consider.
- **Website (Craig Burg, John Murphy)**
 - Webmaster John Murphy was not present.
 - Approved meeting minutes will be uploaded soon. Otherwise the site is updated.
 - The address for the TC web site is <http://tc810.ashraetcs.org>
- 8. TC Goals and Objectives Status and Updates (Craig Berg)**
 - Did a quick review, covered what was complete, on-going, and what was on hold and what was removed. An updated list will be sent out to members.
- 9. New Business**
 - Discussion on taking more time up front on Sub-Committees now that the SPCs are being dissolved.
 - Randy Schrecengost moved that we extend the Subcommittee meeting from 1:00 pm to 3:30 pm. and keep the regular meeting times the same. Tim Sechrist seconded Motion passed 8-0-0-CNV
- 10. Motion to adjourn:**
 - Ralph Kittler at 5:07 pm.