



TC 6.8 Geothermal Heat Pump and Energy Recovery Applications

Chicago, IL 2018 Winter Meeting

Location: Palmer House Buckingham Room (5th Floor)

T.C. 6.8 FULL COMMITTEE MEETING AGENDA

Tuesday, January 23rd, 2018

3:30-6:00PM

<p>Voting Members in Attendance</p> <ul style="list-style-type: none">○ Dr Chris M Gray: Chair○ Mr Scott P Hackel: Vice○ Mr Michael P Kuk: Sectary○ Mr John M Filler, Jr, PE: Handbook○ Ms Lisa M. Meline, PE: Standards○ Dr Harrison M Skye, PhD: Handbook○ Mr Cary Smith○ Ms Karen C Thrasher○ Mr Warren A Austin, III, PE○ Mr Michel Bernier○ Dr William E Murphy, PE PhD○ Mr Howard W Newton	<p>Non-Voting Members / Corresponding Members in Attendance</p> <ul style="list-style-type: none">○ Dr. Jeffrey Spitler: Research Subcommittee Chair○ Mr. Dennis Koop: Webmaster○ Dr. Ziaobing Liu: Subcommittee Chair○ Dr Mohamed R.H. Abdelsalam○ Mr Derek Birdsall○ Prof Ryoza Ooka, PhD○ Mr Steven W Carlson○ Mr N. Scott Emery, P.E.,○ Mr Carl F Huber, PE○ Dr Stephen P Kavanaugh○ Dr Mukesh K Khattar, PhD○ Mr Timothy M Roos○ Mr John A Shonder○ Mr Greg Tinkler
<p>Voting Members NOT in Attendance</p> <ul style="list-style-type: none">○ Bruce Baccei (Member non quorem)○ Ed Lohrenze (Member non quorem)	<p>Guests in Attendance</p> <ul style="list-style-type: none">○ Omar A Abdelaziz, Ph.D. (Research Liaison)○ Mr Dawen Lu, PE (section head)○ Ted Wayne○ Martin Forxen○ Eric Peterson○ Christine Kettner○ Matthew Slager○ Defeng Qien○ Lei Wang○ Yao Yu○ Stephanie Mages

1. Call to Order 3:30

- Welcome, Introductions, and Sign-In
- Visitor Welcome: 1st timers and YEA
- Review Voting Members & Determination of Quorum
 - 12 voting members in attendance
 - 2 members non-quorum not in attendance
 - 1 voting member not in attendance

2. Approval of minutes from Annual 2017 (Long Beach)

- Changes to subcommittee members noted for correction
- Approval noting changes, Murphy move, Smith second. Vote: 12-0-0 approved with noted changes

3. Announcements from ASHRAE

- Section Head – Dawen Lu: No comments
- Liaisons
 - Staff – Any: None in attendance



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- Standards – Erick Phelps: None
- Research – Dr. Omar Abdelaziz
 - Discussed deadline requirements March, May, August, December 15 date requirements. He is available to assist as needed.
- Handbook – Dhamshala (S)/Werman (A)
- TAC – Kelley Cramm: Wanted to make sure we voted soon on our chapter and have available
- ALI/PDC – Bochat: None
- Codes: Steve Ferguson: None

4. Announcements from the Chair

- Briefing from Chair's Breakfast
 - For the 2019-2020 year ASHRAE will celebrate its 125th anniversary. ASHRAE is seeking articles for the Journal celebrating technological advances from 1920 to present. If you would like to submit an article around technological developments, please contact Emily Sigman: esigman@ashrae.org.
 - There is an updated TAC presentation that gives an overview of what TCs do for members to present at their local chapters. Please use this as a way to support and educate your local chapters.
 - TC 7.3 is conducting a survey as part of RP-1650 to gain insights on the skills and knowledge requirements of O&M Staff of High Performance Buildings. Please complete this survey and share with others in the industry who may be able to support:
 - https://montana.qualtrics.com/jfe/form/SV_2ixnELa2V9IfaRL

5. Subcommittee Reports:

- KTM Award – Lisa Meline
 - The recipient of the second annual Kirk T. Mescher award is Laurent Gagne-Boisvert from Quebec, Canada. The \$1500 award was presented on January 15, 2018 at the Montréal Chapter meeting of ASHRAE by Dr. Michel Bernier (left), who represented ASHRAE TC6.8 at the ceremony. More information and the application for the 2018 award will be posted on the TC6.8 website shortly.
- Handbook -
 - Geothermal – Harrison Skye
 - Chpt 34 is moving along well. ASHRAE asked if can submit by March 1 instead of July deadline so don't get hit all at once. Committee thinks can have approval by March 15, if voted on in February. Keeping comments open for another week or so. Skye will resubmit where we are in the next week or so (get a copy for minutes).
 - Proposed vote time line for final vote Feb. 16th (votes need to be cast). Chair asked if can submit Feb. 5th. Chair wishes to have one draft revision, not two. Asked Skye to submit in track changes format.
 - Issue raised at handbook subcommittee meeting. Ted Rainhardt (SIC?) asked for us to change terminology of chapter (see minutes when get)
 - Committee gave thanks to Skye for outstanding work
 - Report Heat Recovery – Mike Filler
 - Chpt 9-2016 systems and equipment. Did update last cycle. Could use help for review before Houston meeting.
- Standards – Lisa Meline (minutes attached)
 - Talked about standard (get minutes from her). CSA is asking for contributions from other organizations to help fund revision in 2019. Lisa asked if we as a committee to ask ASHRAE to contribute. Chris was not sure if and how can do.



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- Cary update on IAPMO. Pretty well along. 3 people on committee. Got 98% (approx.) of changes requested. Set for geothermal section. Other areas (solar etc..) slowing things down.
 - Bill Standard 194 is available in bookstore.
 - Programs - Michael Kuk : **Chicago, Houston, Atlanta**
 - Presented minutes. Pursuing two seminars for Houston. And possibly two more.
 - 1) Targeting Heat Recovery Chillers to meet energy code (Mike Filler)
 - 2) Seminar on Professional Skills (Lisa Meline).
 - 3) Dr. Spitler (possible) to pursue research track topic
 - 4) Cary Smith (possible) to pursue
 - Noted tracks for Atlanta.
 - Cary Smith brought up request to co-sponsor a TC for a seminar he is speaking on. Members voted 12-0-0 approval.
 - Research - Dr. Jeff Spitler : **Work statements and RTARs**
 - **Looking for volunteers to work on committee**
 - **Two items of business**
 - Work statement 1812 brought up again (get copy for minutes)
 - Asked to move for a vote to approve co-sponsorship of Work Statement 1812 (Dr. Spitler motioned, Michel seconded).
 - Discussion Kay asked for summary of changes, need. Dr. Spitler feels auto fault detection is a need for the future. Bill asked what we do, if approved. A: If TC 6.8 approves, then goes to RAC for approval. Misc other discussion in support.
 - 9-1-1 (chair no vote) in approval (1 against, 1 abstain)
 - Discussion 1817-RTAR. Committee planning on submitting a draft work statement to the TC well in advance of summer meeting
 - Discussion on need for more sites to investigate, that are working well
 - Dennis Koop mentioned he had a large database, can probably find 20-30 good sites.
 - Membership - Cary Smith: **Roll-on / Roll-off Members**
 - 5 members rolling off. Gray and Hackel will be working to fill those slots in coming weeks
 - Education and Special Publications/Journal - Vacant:
 - Webmaster - Dennis Koop: **Website Status and Needs**
 - Website doing fine. Would like to add a portal in research. Add seminar topics (tracks for future meetings) to website
 - Asked
- 6. Industry Liaison Reports**
- IGSHPA – Cary Smith
 - IAPMO – Cary Smith
 - NGWA – Cary Smith
 - MTG-ASEC – Cary Smith
 - GEO – New Liaison?
- 7. New Business**
- Open Discussion
- 8. Adjourn**
- a. **Motion chair, second Filler 12-0-0**