



TC 6.8 Geothermal Heat Pump and Energy Recovery Applications

Houston, TX 2018 Winter Meeting

Location: George R. Brown Convention Center 371CF

T.C. 6.8 FULL COMMITTEE MEETING MINUTES - FINAL

Tuesday, June 26th, 2018

3:30-6:00PM

1. Call to Order

- Welcome, Introductions, and Sign-In (SEE ATTACHED ATTENDANCE LIST)
- Visitors Welcomed: 1st timers and YEA
- Reviewed Voting Members & Determination of Quorum (SEE ATTACHED ATTENDANCE LIST)
 - Quorum achieved at 3:42.

2. Approval of minutes from Annual 2018 (Chicago 2018)

- Some minor edits from Meline
- Second Murphy, Meline propose 8-0-0

3. Announcements from ASHRAE

- Section Head – Dawen Lu
 - Gave highlights from breakfast
 - High tower awards deadline sept 1
 - Urgent request to be sure TCs properly use letterhead
 - Deadline for seminars August 3rd
 - Thankyou letters for employer available. Ask TC chair if need.
- Liaisons
 - Staff – No report
 - Standards – Erick Phelps- No report
 - Research – Dr. Omar Abdelaziz – No report
 - Handbook – Dhamshala (S)/Werman (A)- No Report
 - TAC – Kelley Cramm- No Report
 - ALI/PDC – Bochat- No Report
 - Codes: Steve Ferguson- No Report

4. Announcements from the Chair

- Topics from Chair's Breakfast
 - Looking for volunteers for historical papers to Dec. 7 deadline
 - TAC survey on SWAT analysis for TC's...deadline is for end of day tomorrow

5. Subcommittee Reports:

- KTM Award – Lisa Meline
 - If go to TC 6.8 website, can get more info. Think deadline is Nov 1st.
- Handbook -
 - Geothermal – Harrison Skye
 - Submitted to ASHRAE in March. Awaiting ASHRAE response.
 - Report Heat Recovery – Mike Filler
 - Chapter on applied heater recovery. No changes made. Looking for volunteers and feedback, suggestions. If have any, send to Mike. Nothing else to report
 - Frank Pucciano brought up desire to start a subcommittee meeting on Tuesday mornings on heat recovery portion of our full committee. Mike Filler would like to try and start in Atlanta.
- Standards – Lisa Meline
 - Nothing to report
- Programs - Michael Kuk : **Houston, Atlanta, Kansas City (see attached minutes)**

CURRENT VOTING MEMBERS

- Dr. Chris Gray (18) Present
- Lisa Meline (18) Present
- Trey Austin (18) Not present
- Michel Bernier (18) Not present
- Howard Newton (18) Not present
- Michael Kuk (19) Present
- Mike Filler (19) Present
- Scott Hackel (20) Present-remote
- Bruce Baccei (20) – MNQ (not present)
- Ed Lohrenz (20) – MNQ (not present)
- Kay Thrasher (20) Present
- Dr. Bill Murphy (20) Present
- Dr. Saojie Wang (20) Not present
- Dr. Harrison Skye (21) Present
- Cary Smith (21) Not Present



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- Summarized activities from Chicago, and Houston.
 - Skye reviewed the meeting results (get from Skye)
 - Skye will chair Track 3
 - Kuk will chair Track 5 (which may turn into Track 4)
 - We don't have a chair for Track 7
 - Research - Dr. Jeff Spitler : **Work statements and RTARs** (see attachment)
 - Sub meeting held Monday June 25th
 - Handed out work statement for "long term temperature change of ground heat exchangers."
 - May 10th went out to TC members. Received comments back.
 - Email with revisions went out last night (6/25)
 - Discussion: Kay Thrasher had some significant concerns that this may not be what we want. She does not support this work statement as she feels that the data may not be accurate enough to use for updating/changing current design procedures.
 - Lisa Meline's concern was that it is unclear to her that the work statement as written (including proposed contract value) will provide information to the practicing engineer needed to reduce the uncertainty of GHX calculations.
 - L. Meline also asked on behalf of Dr. Kavanaugh to have his name taken off of the document.
 - Dr. Spitler asked for K. Thrasher to give comments for wording changes by next week
 - Vote: with minor editorial changes and take Dr. Kavanaugh off of work statement 6 for, 2 against 0 abstentions
 - Other meeting topics:
 - L. Meline suggesting creating a standard spec.
 - Discussed other meeting activities
 - Membership - Cary Smith: **Roll-on / Roll-off Members**
 - Five members rolling off
 - Chris Gray
 - Lisa Meline
 - Trey Austin
 - Michel Bernier
 - Howard Newton
 - New Leadership:
 - Chair: Scott Hackel
 - Vice Chair: Steve Hamstra
 - Secretary: Dennis Koop
 - Standards: Cary Smith
 - Programs: Harrison Skye
 - New Voting Members:
 - Dr. Piljae Im
 - Derek Birdsall
 - Hugh Henderson
 - Dennis Koop
 - Steve Hamstra
 - Education and Special Publications/Journal - Vacant:
 - Webmaster - Dennis Koop: **Website Needs and Webmaster**
 - Craig Buschur has volunteered to take over webmaster position
- 6. Industry Liaison Reports:**



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- IGSHPA, IAPMO, NGWA – Cary Smith
 - No update
- GEO – New Liaison?
 - Cary Smith recommended for taking over Geo Liaison roll. (CS not in attendance this meeting)

7. New Business

- Open Discussion
 - Craig Buschur: 90.1 is apparently having a discussion if geo is considered renewable energy
 - Guest: General discussion on pre-engineering solutions
 - Meline: Discussed need to bring others into our committee
 - Thank you to Dr. Gray for two years of service

8. Adjourn

Motion: Lisa Meline, second Dr. Spitler approved all