

ASHRAE TC 8.3 Absorption and Heat Operated Machines

Meeting Minutes

Monday, June 27, 2016

Summer Meeting – St. Louis, MO

1. *TC8.3 Chair Rajesh Dixit called the meeting to order at 3.32 pm, and asked for members and visitors to sign the attendance sheet and give their introductions. Rajesh also acknowledged the Section 8 Head Dustin Meredith.*
2. *Four voting members and zero member non-quorum (MNQ) were present. TC8.3 has seven voting members. Therefore, a quorum was established for the meeting. The voting members present were: Rajesh Dixit, Ersin Gercek, Kyle Gluesenkamp and Reinhard Radermacher. In addition to the voting members, six corresponding members and five guests were also present.*
3. *Rajesh Dixit read the statement of purpose for TC 8.3.*
4. *Rajesh Dixit moved that the minutes from the winter meeting in Orlando be accepted as submitted. Uwe Rockenfeller seconded the motion. The motion was accepted (4, 0, 0 CV).*
5. *Subcommittee reports were presented:*
 - a. *Standards: Jay Kohler presented the report. The SPC required to update “ASHRAE Standard 182: Method of Test for Absorption Chillers” has begun meeting (once a month). There are currently six members: Jay (Chair), Rupal, Paul, Kyle, Dennis and Ken. It is not well attended and may need new members. The quorum was not established. Standard 182 is aligned with AHRI 560:2000 (SPC is now waiting on AHRI 560:2000). The plan is for AHRI to adopt ASHRAE’s method of test. The SPC meets at the ASHRAE conferences on Monday mornings from 8:00-12:00.*

No activity as such for Standard 40.

- b. *Research: Uwe Rockenfeller presented the subcommittee report, including a review of the subcommittee minutes from the Orlando meeting and a report based upon the subcommittee meeting held immediately prior to the TC meeting. The minutes were reviewed and no changes were requested by the subcommittee members.*

Uwe Rockenfeller reported that the RTAR (# 1796) titled ‘Design Guide for Absorption Chillers and Heat Pumps’ has been submitted by Paul Sarkisian to RAC. A copy of the submission with the new title voted on in the January 2016 main committee meeting is enclosed in the Research Subcommittee Meeting Minutes (available on TC 8.3 website).

*Bill Ryan volunteered to lead the effort on RTAR development: “**Simulation Studies in Absorption and Co-generation Applications to Buildings**”. The draft circulated prior to the Research Subcommittee meeting is enclosed in the Research Subcommittee Meeting Minutes (available on the TC 8.3 website). The idea is to develop improved co-relations for absorption and cogeneration for the DOE’s e-Quest software. A period of performance of 36 months was recommended. A cost target of \$ 180,000 was suggested. Bill Ryan requested co-sponsorship with TC 1.10 and TC 6.2. Bill Ryan will also explore possible co-sponsorship and timing with*

Mr. Gary McNeal EPA CHP Partnership. Co-funding needs to be resolved prior to submission in the fall of 2016. The concept of making the effort also applicable to Energy-Plus and other open source was discussed to be included in the scope of work. A motion to submit the RTAR with the discussed revisions was made in the main committee and accepted 4-0-0 CV.

*Tim Wagner volunteered to develop a first draft of the RTAR for a “**Design Guide for Thermally Activated Heat Pumps**” in the Orlando 2016 meeting. Tim Wagner was not present at the St. Louis meeting.*

Xiao Lin suggested follow-up work on heat and mass transfer mechanisms. Xiao Lin agreed to draft an RTAR for such effort.

Kumar Sivagnanam initiated on software development and refinement for heat and mass transfer. TC 8.3 may co-sponsor such future effort.

- c. Website: Ken Schultz (webmaster) was not present at the St. Louis meeting. Everyone is encouraged to check out the new website and provide feedback or suggestions for improvement.*
- d. Programs: Ersin Gercek reported on the seminar session #5 sponsored by TC8.3: “**Innovative Absorption System Applications for Both Heating and Cooling**” presented by Patrick Geoghegan, Doug Davis and Rajesh Dixit (on behalf of Rajesh Sinha). It was well attended and the audience asked several good questions.*

*The deadline for submitting Seminar proposals for Las Vegas is August 8, 2016. Ersin Gercek made a motion to sponsor a seminar titled “**Latest Sorption Equipment for Heat Pumping**”. Uwe Rockenfeller seconded the motion and it passed (4-0-0 CV).*

*Ersin Gercek made a motion to sponsor a seminar titled “**Sorption Economics**”. Uwe Rockenfeller seconded the motion and it passed (4-0-0 CV).*

- e. Handbook: Reinhard Radermacher reported that everything was done with revised Fundamentals Chapter 2. There was a discussion if absorption should be moved from Refrigeration to Equipment. Rajesh Dixit made a motion to leave as is. Reinhard Radermacher seconded the motion and it was passed (4-0-0-CV).
HB Refrigeration Liaison David Scott Fisher reported that there is a new authoring tool and a training class on it which may be useful to the new HB Subcommittee Chair Jurgen Scharfe.*

6. Rajesh Dixit presented the Chairman’s Overview and Report.

- a. Requested each member to review ASHRAE code of ethics at the start of meeting (<https://www.ashrae.org/about-ashrae/>)*
- b. Option for TC Subcommittee meetings via conference calls and web meetings*
- c. MTGs that have been formed since Orlando meeting – MTG.IAST & MTG.OBB*
- d. There were no volunteers for the Secretary position during the meeting.*
- e. Rajesh Dixit provided an overview of existing and new (effective 1/7/2016) voting members*
- f. Rajesh Dixit provided an overview of existing and new (effective 1/7/2016) TC 8.3. member positions*

- g. *Seminar and Forum proposals for Las Vegas are due by Monday, August 8, 2016*
- h. *2016-2017 Hightower Award & Service to ASHRAE Research Award Nominations are due by Thursday September 1st, 2016*
- i. *The PDC (Professional Development Committee) is seeking ideas for new ASHRAE Learning Institute (ALI) courses*
- j. *Las Vegas Meeting January 28 – February 1, 2017*
- k. *Long Beach Meeting June 24-28, 2017*
- l. *Several other upcoming workshops and conferences.*
- m. *Bias Disclosure: Starting at the 2016 Annual Meeting in St. Louis, speakers will be asked to fill out a potential sources bias disclosure document that will note an affiliations/involvement with any organizations with financial or commercial interest in the subject matter to the discussed, in accordance with the ASHRAE code of ethics.*

A procedure will be implemented with Las Vegas in 2017 for all papers presentations to provide a source of potential bias. A form will be required when abstracts are submitted, but will not be part of abstract approval or paper approval. Bias will be disclosed on all published papers and presentations. Author's will be required to provide this information and is to be included by the authors with submissions and presentations.

- n. *The eight tracks for Las Vegas 2017 and nine tracks Long Beach 2017 conference were announced. There was a discussion around having a separate track for absorption for Chicago 2018.*
7. *Old Business: TC 8.3 members would like to know the status of the MTG.ASEC (Avoided Source Energy Consumption)*
 8. *New business: Don Erickson and Eric Smith discussed about ammonia-water absorption chillers. Eric Smith suggested that exceptions in ASHRAE 15 be replaced by referencing the IAR2 standard. Eric Smith proposed that IAR2 standard will be modified to include ammonia-water absorption chillers.*
 9. *The next meeting will be held on Monday January 30th, 2017 in Las Vegas*
 10. *Uwe Rockenfeller moved that the meeting be adjourned. Kyle Gluesenkamp seconded the motion and it was approved (4, 0, 0 CV). The meeting was adjourned at approximately 5.37 pm.*