

ASHRAE TC 8.3 Absorption and Heat Operated Machines

Meeting Minutes

Monday, June 30, 2014

Summer Meeting – Seattle

*These minutes were approved at the Chicago meeting (25-Jan-2015)
and are now the official record of the Seattle meeting.*

1. Jay Kohler, the Vice-Chair, started the meeting at 3:40 pm, and asked for members and visitors to sign the attendance sheet and give their introductions.
2. A quorum was not established for the meeting, with four out of eight voting members present. The voting members present were: Rajesh Dixit, Laura Schaefer, Reinhard Radermacher, and Paul Sarkisian. In addition to the voting members, four corresponding members, and three guests were also present.
3. Jay Kohler announced that starting in July, he will continue as Vice-Chair and Standards Sub-Committee Chair, Rajesh Dixit will be chair, Ken Schultz will continue as web master, Reinhard Radermacher will continue as Handbook Sub-Committee Chair, Ersin Gercek will continue as Program Sub-Committee Chair, Laura Schaefer will continue as Secretary, and Uwe Rockenfeller will continue as Research Sub-Committee Chair.
4. David Yuill, the Liaison for Handbooks, discussed the upcoming deadlines for our chapters. In Fundamentals, we share a chapter on Thermodynamics with 1.1. We are asked to consider including a practical design example and a sustainability calculation example, as well as an international member perspective. The deadline for the Fundamentals chapter is July 28, 2016. We can also submit electronic/on-line content. Rajesh Dixit discussed some topics that could address these requested examples. Jay Kohler discussed some issues with respect to the international member perspective.
5. Jay Kohler read the statement of purpose for the TC.
6. Jay Kohler asked for any possible corrections or additions to the minutes from the winter meeting in New York (the minutes were made available via email before the meeting).
7. Subcommittee reports were presented:
 - a. Programs: Ersin Gercek was not present, and had forwarded no report on programs. At the Seattle meeting, TC 8.3 sponsored Seminar 48: *Successfully Applying Sorption Technologies for Fun and Profit*, on Wednesday at 9:45 am. For the winter meeting in Chicago, the seminar and forum submission deadline is August 11. Jay Kohler asked for ideas for seminar topics for Chicago. Rajesh Dixit said that he might be able to organize a seminar, and suggested a topic on *Absorption Heat Pumps for District Heating* in the Systems and Equipment track. He will contact Ersin Gercek to submit that topic. For a potential symposium in Atlanta next summer, the topic of *Emerging Applications Using Sorption Technology* was suggested for the Systems and Equipment track. The abstracts for that symposium are due by August 11, and the draft papers by January 5. For both sessions, an e-mail ballot will need to be distributed for approval by the TC.

- b. Research: Uwe Rockenfeller presented the subcommittee report, which was based upon the subcommittee meeting held immediately prior to the TC meeting. There was also a project review held prior to the general TC meeting. For TRP 1462 (Active Mechanisms for Enhancing Heat and Mass Transfer in Sorption Applications), a fourth project review was held. There were some issues with this project review as well. For example, while the contractor is the University of Nebraska at Lincoln, the actual project work is being conducted in Beijing, China. This has caused some issues with oversight of the test rig and the resulting data. The chiller that is used had actual operational limits that were different from the manufacturer's specifications. As a result, the data are all for partially loaded heat transfer surfaces. More details on these concerns and more (temperature levels, measurement tolerances/accuracy, etc.) can be found in the Research Subcommittee report, and the slides from the presentation. These issues were discussed among the entire committee. Additionally, there were some minor issues on the attendance of the PMS committee members, so Kyle Gleusenkamp volunteered to join with Uwe Rockenfeller and Tim Wagner.

Paul Sarkisian reported on upcoming deadline for submission of edited RTAR 1638 (Absorption Refrigeration Cycle Training Simulator for Sustainable Resource Use). He will make sure that this is done in good time. (This was already voted on at the last meeting.)

Finally, the Application Guide for Absorption Cooling/Refrigeration using Recovered Heat was discussed. Rajesh Dixit stated that the document is quite old, and needs a major transformation. The document is not at all in line with state-of-the-art, current technology. It was proposed that a research project is needed to update the application guide. Rajesh Dixit will look for other members who might be interested in formulating an RTAR to this effect. Tim Wagner and Kyle Gleusenkamp are two possibilities for this.

- c. Handbook: Reinhard Radermacher discussed the need to update the Fundamentals chapter. He has approached Keith Herold to help with this, and they will aim for a draft by December of this year.

(The Section Head spoke at this point in the meeting; this will be summarized in the next numbered section, below.)

- d. Standards: Jay Kohler presented the report. Rupal Choksi stated that AHRI is working on Standard 550/590 right now; Standard 560 is the next one on the agenda, and should be completed by the end of the year. With work on that standard moving forward, TC 8.3 can commence efforts on ASHRAE Standard 182. As discussed at the previous meeting, Jay Kohler agreed to chair the PC. Joe Brillhart and Paul Sarkisian will also help with the PC (and possibly Ken Schultz). Rupal Choksi and Kyle Gleusenkamp (who mentioned that heating methods in addition to cooling methods should perhaps be included) volunteered to help as well.

Standard 40 is now completed and available to be purchased.

- e. Website: Ken Schultz continues to do an excellent job maintaining the website.

8. The Section Head, Steve Duda, presented on issues relevant to TAC and Section 8. The new roster begins the afternoon of July 2. There is a certificate of appreciation for Ersin Gercek, which will be mailed to him. A one-page report on activities should be turned in by the TC by tomorrow (Tuesday, July 1) night.
9. Jay Kohler presented the Chairman's Overview and Report.
 - a. Jay Kohler first presented the ASHRAE code of ethics, and discussed the new Outstanding TC Award. There is a point system for the latter.
 - b. The Hightower Award was also discussed; nominations cannot be submitted for a TC member from one's own TC.
 - c. An MTG was just established for Building Dampness; more MTGs can be established on request.
 - d. All members are encouraged to update their on-line bios.
 - e. ASHRAE encourages the use of conference calls for meetings through their Electronic Presence program, and has equipment and facilities that TCs can use. This is particularly of use for TC members who might not attend the ASHRAE meeting otherwise. The same can be done for Sub-Committees (via phone or web).
 - f. Upcoming conferences and workshops were listed.
10. There was no old business that needed to be addressed.
11. Under new business, Uwe Rockenfeller requested that Rajesh Dixit ask for the same room for the Research Sub-Committee meeting and the overall TC meeting.
12. The meeting was adjourned at approximately 5:30 pm.