

ASHRAE TC 8.3 Absorption and Heat Operated Machines
Meeting Minutes
For Monday January 26, 2004
ASHRAE 2004 Winter Meeting – Anaheim, California

The meeting was called to order at 6:30 p.m. Vikas Patnaik distributed the meeting agenda and sign-in sheet, and read the scope of the TC. Introductions were made, and Patnaik invited visitors to apply to become corresponding members. The voting totals throughout these minutes are in the format of for-against-abstain.

Liaison Reports

1. Ben Sun presented a liaison report for the ASHRAE Handbook. Handbook chapters are due on August 1. The 2005 edition of the Handbook will include a CD-ROM. ASHRAE would like the Handbook to become more practical. For the CD-ROM, up to 2 MB of enhancements can be added. The electronic version is not considered to be the official version.
2. Eckhard Groll presented the Section Head report. He stated that there are now planning meetings for the TC chairs, and that there is an increased focus on collaboration/interaction, particularly in regard to the Handbook.

Review and Revision of Agenda

No changes were made to the agenda.

Determination of Quorum

Seven out of nine voting members for TC 8.3 attended the meeting, so a quorum was achieved. In addition to the voting members, seven corresponding members and four guests attended the meeting.

Roster and Committee Positions

For the next roster rollover, Sam Shelton and Uwe Rockenfeller will cease to be voting members, and Paul Sarkisian and Srinivas Garimella will take their places. There are a minimum of six voting members required for each TC.

As of July 1, 2004, Vikas Patnaik will no longer be Chair (he will remain a voting member, however). Jay Kohler will be the new Chair (**he will ask for a two-year extension as a voting member**), Laura Schaefer will be the new Vice-Chair, and John Bevington will become the secretary.

Review and Approval of Minutes

The minutes from the Kansas City summer meeting were approved 7-0-0.

Sub-Committee Reports

Research

Research Sub-Committee Chairperson Uwe Rockenfeller provided an update on the committee's research activities. No exceptions or additions were made to the minutes of the Kansas City Research Sub-Committee meeting.

1. For the RTAR 2005-04, *Transient LiBr/H₂O and NH₃/H₂O Systems*, U. Rockenfeller discussed whether a collaboration with TC 1.4 should be established, as well as the feasibility of the budget (\$120,000) and the time frame. **R. Radermacher will check into databases relevant to the RTAR, and then a revised RTAR will be developed.**
2. The withdrawal of WS-1064 has finally been resolved.
3. ASHRAE research funding is now \$2.2 million (approximately 2/3 of its previous level). WSs are due May 15, and RTARs are due August 1. RTARs should be limited to 2-3 pages, and must adhere to the proper format. They should be as quantitative as possible, and include references and a minimum of four suggested bidders. An RTAR should include a 100-word abstract to justify the technical merit and current relevancy of the topic.
4. The deadline for the updated research plan is August 1. The next priority for the TC is an *Educational Tool for BCHP Applications*. No one at the meeting volunteered to write an abstract for that topic, but **three people in the research meeting said that they would submit ideas for new priorities/RTARs by the summer meeting.** Voting on the priority of those ideas will be done in Nashville.
5. A closed session was called to vote on the contractor for the TRP-1200 proposal. Jay Kohler, Paul Sarkisian, and Dharam Punwani were selected for the PMS committee, which was approved 6-0-0. The bidder selected by the research sub-committee was approved for submission to the Research Committee 6-0-0 (one voting member was recused from this topic).

Programs

Laura Schaefer presented the Program Sub-Committee report. The seminar presented in Kansas City was well-attended, and all of the presenters are to be thanked for their contributions.

1. TC 8.3 sponsored two sessions in Anaheim: a symposium on “Absorption/Sorption Heat Pumps and Refrigeration Systems,” and a forum on “Can Absorption Help Alleviate Utility Volatility/Supply Interruption.” Both sessions were well attended, and the symposium was particularly popular.
2. For future sessions, a seminar will be presented in Nashville, and a symposium will be presented in Orlando. Those priorities were approved 8-0-0 (Reinhard Radermacher, an additional voting member, was now present at the meeting).
3. The seminar TC 8.3 will sponsor in Nashville will be titled “Novel Ideas in Absorption Technology.” Don Erickson, Hany Al-Ansary, Tim Wagner, and Reinhard Radermacher all volunteered to prepare presentations. All presentations will now be made available on the web by ASHRAE.
4. R. Radermacher announced the upcoming International Sorption Conference in Denver in 2005, and distributed a call for papers.
5. A request was made for a new Program Chair. **No one at the meeting volunteered for the position, so it remains open.**

Handbook

Don Erickson presented the Handbook Sub-Committee report.

1. The pending revision to Chapter 1 was approved at the last meeting.
2. Sandy Klein compared Ammonia-Water data from EES, Tillner-Roth, and the figure in Ch. 17. The figure compared well, since it had originally been generated from EES. Klein recommended continuing to reference both EES and Tillner-Roth. No feedback was provided on the LiBr properties. **Ken Schultz has received some programs from Keith Herold to look at those properties.** Any additions or changes will not be received in time for the current volume, but may be able to be included in the electronic version.

3. Other proposed additions were to include two more $\text{NH}_3/\text{H}_2\text{O}$ references from 1995 and 1998 (Malendar and Patek and Klumvar). Further useful correlations in EES and REFPROP 7 were also proposed for citation. A motion to include these additions was approved 8-0-0.
4. The electronic version of the Handbook is pending. **Better electronic versions of the figures are needed, and a request for suggestions for enhancements was made.** The file size limit is 2 MB. Radermacher suggested that ORNL has a program that animates a GAX cycle that may be appropriate. Klein's EES files will likely be too big, but NIST might be able to include a version of REFPROP configured solely for $\text{NH}_3/\text{H}_2\text{O}$.

Standards

Steve Petty was absent, so Vikas Patnaik presented the Standards Sub-Committee report.

1. The ARI standard 560-200 Methods of Testing is currently being examined for development into an ASHRAE standard. At the last meeting, creation of a title, purpose, and scope was approved, and then composed by Patnaik.
2. Changes to the title, purpose, and scope were made to narrow the focus to $\text{LiBr}/\text{H}_2\text{O}$ and change the phrasing of "flashed-off." The altered document was approved 8-0-0.
3. A chairperson was then selected for the SBC. **Jay Kohler volunteered to serve, and Ken Schultz will assist him.**

Website

Ken Schultz presented the Website Sub-Committee report. From the Kansas City seminar, he has the presentations given by Jay Kohler and Vikas Patnaik, but not G. Anand. He is also including the minutes, research plans, etc., from the TC.

Other Business and Additions to the Agenda

1. ASHRAE wishes to know what new services may be useful for the TCs. On-line voting and a TC listserv were proposed.
2. TC 2.8 has worked on the development and improvement of the ASHRAE Green Guide. There is no mention of concepts such as CHP. This will hopefully be included in the 2nd edition.
3. ASHRAE would like to investigate potential involvement in Homeland Security research. It was decided that TC 8.3 is largely unrelated to this area, with the possible exception of the broader energy issue. Bruce Urban pointed out the role of distributed power/CHP/absorption.
4. Laura Schaefer gave a 20-minute presentation on computational modeling of two-phase, two-component microchannel flow. That research was conducted as part of Schaefer's New Investigator Award, for which TC 8.3 is the supervising committee.

A motion to adjourn the meeting was approved 8-0-0 at 9:05 p.m.

Submitted by Laura Schaefer.