

TC 8.3 ABSORPTION AND HEAT OPERATED MACHINES

ASHRAE 2019 Annual Conference

June 22 – 26, 2019

Kansas City, MO

Seminar 53: *Novel Optimization Techniques for Water Heating Using Sorption Systems*

Tuesday, June 25, 11:00AM to 12:30 PM

Location: KCCC, First Floor, 2104A. Chair: William Ryan

Speakers: Christopher Keinath, Zhiyao Yang, Ahmad Abu-Heiba

Research/Handbook Subcommittee

Monday, June 24th, 2:15 PM to 3:30 PM

Marriott-West, Second Floor Yard Bird B

Committee Meeting

Monday, June 24th, 3:30 PM to 6:00 PM

Marriott-West, Second Floor Yard Bird B

Agenda:

- | | |
|---|-------------------|
| 1. Welcome new members, visitors | Patrick Geoghegan |
| 2. Call to Order / Roll Call / Introductions | All |
| 3. ASHRAE Code of Ethics Commitment | Patrick Geoghegan |
| 3. Introduction of ASHRAE Liaisons on Arrival | Patrick Geoghegan |
| 4. Establishment of Quorum | Davide Ziviani |
| 5. Roster | Davide Ziviani |
| 6. TC 8.3 Purpose Statement | Patrick Geoghegan |
| 7. Minutes of the 2019 Winter Meeting (Atlanta) | Patrick Geoghegan |
| 8. Subcommittee Reports | |
| a. Program | Bill Ryan |
| b. Research | Uwe Rockenfeller |
| c. Handbook and Publications | Jürgen Sharfe |
| d. Standards | Jay Kohler |
| e. Membership | Doug Davis |
| f. TC Website | Chris Keinath |
| 9. Chairman's Overview and Report | Patrick Geoghegan |
| 10. Old Business | All |
| 11. New Business | All |
| 12. Next subcommittee and committee meetings | Patrick Geoghegan |
| 13. Adjourn | All |

TC 8.3 is concerned with the design, performance and application of equipment energized by a heat source and using a thermodynamic cycle to provide an air-conditioning, refrigerating or heating function; with the properties of absorbent solutions or special working fluids used in these cycles; and with components of the cycle requiring specific design characteristics.

Total roster 65

Voting members:

Patrick Goeghegan x
Douglas Davis
Uwe Rockenfeller x
William Ryan x
Reinhard Radermacher x
Eric Smith x
Timothy Wagner x

#Gershon Grossman (member non quorum)

#Juergen Scharfe (member non quorum) – not counting due to international

Approving the minutes 5-0-0 (Prof. Radermacher came in late)

Programs:

- Merging TC8.3, CHP (TC 1.10) + Chillers. Take the lead with a new scope
- Enhance program presence (seminars, workshop, panel)
- Research and product development; overview of product development, progress, and not in the lab. Field test.
- Review presentation or panel/forum (4 people)
- Winter: seminar “Product and Development of absorption” (August 3, 2019); Summer: propose a workshop
 - Vote Seminar Orlando “Product and Development in Absorption and Heat Operated Machines”: Motion William, Second Uwe, 6-0-0.
 - Vote Seminar Austin TX “Product and Development in Absorption and Heat Operated Machines”: Motion William, Second Uwe, 6-0-0.
 - Approval for development of workshop either Winter or next Summer: “All applications of Absorption” Motion William, Second Uwe, 6-0-0.

Research:

- 1796-WS:
 1. amend the references to Chinese work; Bibliography text Kyle G.
 2. pushed back on \$140,000. RAC pushed back, but according to the Research Subcommittee meeting we maintain \$140,000 due to the need of 6-months professional + 6 months of student. Submit a justification letter. Absorption industry has grown over the last 20+ years. International recognition since the absorption industry is more international. Not modifying the WS, but just add references.
- 1842-WS:
 1. Submitted to Chis Seeton. Wait response from RAC
 2. Voting August 15, 2019
 - Vote missing
 - Establishing PMS
- White papers:
 1. Not really draft for RTAR
 2. Informational purposes it will be better put them into program
 3. If there is research content, we can develop an RTAR
- Handbook:
 1. Liaison for Fundamentals and reminded March 1, 2020. Jurgen needs to follow up.
 2. Chapter in refrigeration is not due in a couple of years
 3. Action item: follow up with Jurgen about Handbook commitment.
- Standards:
 1. ASHRAE 182: Standards Project subcommittee (SPS). Try to get it finalized to go public review. It was supposed to do in KC, but the intention is method of testing for AHRI 560. Standards Action list to stay updated and get notified when it goes out public review.
 2. ASHRAE 40 (smaller equipment): last year it was approved a periodical maintenance. It is with Standards.
- Membership:

1. Brian Fronk joined Pro-CM; possible to become Research SubComm Chair from ORL, 2020
- Website:
 1. Update meetings.
 2. Uwe to send minutes to Chris
- Old Business
 1. Uwe would like to step down after Orlando;
 2. Timothy, UTRC: uncertain about the availability after Orlando;
- New Business:
 1. Talk to TC1.10
 2. Try to put together a tentative scope.
 3. Ammonia, Ammonia-water Design requirements on absorption IR2; <6.6 lb is not covered.
- Orlando
 1. Reserve room

Motion to adjourn:

Uwe, second: Prof. Radermacher
6-0-0