

ASHRAE TC 1.10 COMMITTEE MINUTES
Seattle, WA
July 1, 2014

The TC 1.10 meeting was called to order by the Vice-Chair, Dharam Punwani, at 3:32 PM. Tim Wagner, the Chair expressed regrets for not being able to attend.

1. Vice-Chair Dharam Punwani welcomed all members and acknowledged the guests.
2. Self-introductions were made by all present. TC 1.10 has 9 Voting Members of which 7 were present. Hence, a quorum was established.
3. Secretary Dragos Paraschiv read the TC 1.10 mission statement.

Mission Statement: TC 1.10 is concerned with cogeneration systems, their cycles, and components including heat recovery, energy conversion, and system integration. The systems provide both power (electric and/or shaft) and thermal energy (heating and/or cooling) and are variously known as cogeneration systems; trigeneration systems; combined heat and power (CHP); combined cooling, heating, and power (CCHP); and integrated energy systems (IES).

4. Copies of the draft minutes of the meeting held in New York City, NY were distributed to the attendees of the meeting. Harold Smith made a motion to approve the minutes of the meeting (after correcting minor typing errors noted by John Andrepont). The motion was seconded by John Andrepont and approved (7, 0, 2, CV).
5. Dr. Eric Adams, TAC Chair for Section 1, presented a Certificate of Appreciation for Tim Wagner. TC1.10 expressed appreciation for Tim's effort as a chair and his overall contribution to the TC activities.

6. **Subcommittee Reports**

a. **Programs:** Rich Sweetser

Rich expressed regrets for not being able to attend.

No seminars sponsored by TC1.10 at this conference.

Chicago Proposals:

A seminar on CHP for mission critical applications was proposed at the last meeting in NYC. Dharam Punwani will follow up with Rich regarding the seminar proposal submission.

Atlanta Proposals:

No proposed topics. Dharam Punwari will follow up with Rich Sweetser. A potential topic could be a seminar on the updated CHP Design Guide.

Orlando Proposals:

Seminar of Case study on Reedy Creek has CHP, TES, CTIC, and District Cooling. This is the facility that serves Disney World and could provide an excellent overview of all of these systems. A tour in the afternoon following the morning session may be suitable if possible to arrange. John Andrepont will follow up with Reedy Creek.

b. Research: Dragos Paraschiv

Dragos attended the research meeting on Monday and announced the following:

There are 63 active research projects with \$10.8 million in total value.

At Seattle, RAC evaluated 9 RTARs (5 accepted with comments, 4 rejected with comments), 8WSs (4 conditionally accepted, 4 returned with comments).

RTARs & WSs submissions continue to be based on ASHRAE Research Strategic Plan 2010-2015.

TC 1.10 Research

CHP Design Guide Update:

ASHRAE could not provide Artwork from the old design guide in electronic form. Motion by Harold Smith to approve an increase in funding of \$15,000 and an extension of 2 months for the project to address the missing artwork. Seconded by John Andrepont. (7, 0, 2, CV).

New CTIC Design Guide:

Dharam Punwani prepared the RTAR for this and it was reviewed by Art Geisler, Research Liaison. Dharam or Annette will contact the ASHRAE Publications Department to find out how many copies of the old CTIAC Design Guide had been sold.

c. Handbook: Lucas Hyman

Chapter 7: Lucas Hyman

Lucas noted that 2 only volunteers actively participated in revising Chapter 7 (prof. Birol Kilkis and Dharam Punwani). He invited more comments by August 1, 2014.

ASHARE due date for final submission is March of 2015. The TC should vote on this at the Jan 2015 meeting.

Riyaz proposed a seminar session at the next meeting after the revised chapter is published.

Chapter 8: Dharam Punwani

ASHARE due date for final submission is in July of 2015. The TC should vote on this at the Jun 2015 meeting.

Handbook Liaison Report by Annette Dwyer: Annette is the Handbook Liaison for the 2016 Volume of the Systems and Equipment. She provided the above due dates for both Chapters 7 & 8. She also informed that subscriptions for and revision histories of the Handbooks are available online for members. .

d. CTIC Subcommittee: Annette Dwyer

New meeting time: CTIC subcommittee (Chapter 8) from 1:00 pm – 2 pm on TUESDAY.

Annette Dwyer reported that four (4) members attended the subcommittee meeting

The CTIC Handbook (Chapter 8) is discussed above.: There are no Programs planned. Research status is discussed. She informed that the subcommittee will be pursue action regarding the RTAR for updating the CTIC Design Guide.

e. Membership: Dharam Punwani

Dharam Punwani reported that currently we have nine (9) voting members. On July 1, 2014, Tim will be rolling off as Chair as well as a voting member, Dharam will move to Chair, Annette will move to Vice Chair, and Dragos will start as Secretary. All other subcommittee positions are staying the same.

Annette and Lucas will be rolling on as voting members.

New visitors wishing to become corresponding members were asked to give business card/contact information and ASHRAE number to Dharam. We will update the email list accordingly.

f) Web Site: Dragos Paraschiv

Dragos reported that the TC 1.10 website was up to date. Please contact him with any suggestions for webpage contents.

g) Honors & Awards: Dharam Punwani

Vic Penar, the outgoing Section 1 head, received the Distinguish Service Award. On behalf of the TC, Dharam congratulated Vic and everyone applauded him.

h) Standards: Mark Davis

Mark Davies expressed regrets for not being able to attend the meeting. SPC 204P will have a meeting on Aug 20, 2014.

7. Chairman's Overview and Report: Dharam Punwani

Appreciation was expressed for Tim's contribution to the TC1.10 activity.

8. Old Business:

CHP-2 course webinar is scheduled for Nov 20, 2014.

CHP-2 course is scheduled for the Winter Meeting in Chicago.

John Andrepont reported on IDEA activities: See the attachment to this document for his report.

9. New Business:

TC 6.2 & 6.9 are working on a new RTAR, John Andrepont will act as liaison.

Meeting Times for 2015 Winter Conference in Chicago: (Tuesday, January 27, 2015)

TC 1.10 Handbook, Chapter 7 from 12:00pm – 1:00pm.

CTIC subcommittee Chapter 8 from 1:00 pm – 2 pm

TC 1.10 Handbook, Research, and Programs from 2:00 pm – 3:00 pm

TC 1.10 main meeting from 3:30 pm - 5 pm

Adjourn

Harold Smith moved that the meeting be adjourned. Geoff seconded the motion and it was unanimously approved by all present.

Minutes prepared and respectfully submitted by Dragos Paraschiv, TC 1.10 Secretary.