

AMERICAN SOCIETY OF HEATING REFRIGURATION AND AIR-CONDITIONING
ENGINEERS, INC.
1791 Tullie Circle, N.E./ Atlanta GA 30329
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TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. 6.10 DATE 7/11/11

TC/TG/MTG/TRG TITLE FUELS AND COMBUSTION

DATE OF MEETING 6/28/11 LOCATION Montreal QC

MEMBERS PRESENT	MEMBERS ABSENT	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Bill Roy (VM – Acting Chr)	Earl Rightmier (VM-Chr)	Thomas Neill (G)
Corey Weiss (VM-hb)	Larry Brand (VM)	Saunders Smith (G)
Paul Sohler (VM – Acting Sec.)	Shamel Kassab (VM)	Mehdi Doura (G)
Ray Albrecht (CM)	George Kusterer (VM)	John Dunlap (L/Sec Head)
Tom Butcher (VM – prg)	Marc Neufcourt (VM)	Jaap Hogeling (L/Research)
	Hall Virgil (VM)	

Key: CM = Corresponding Member, G = Guest, L = ASHRAE Liaison, IM = International Member

Distribution

ALL MEMBERS OF THE TC/TG/TRG

TECHNICAL ACTIVITIES COMMITTEE CHAIRMAN: Craig Wray (TACchair@ashrae.net)

TAC SECTION HEAD: John Dunlap (JDunLap@DunLappartners.com)

ASHRAE LIAISONS:

Program: Lane Jackins (PL6@ashrae.net)

Research: Lawrence Markel (RL6@ashrae.net)

MANAGER OF RESEARCH: Michael Vaughn (MORTS@ashrae.net)

ADDITIONAL DISTRIBUTION: TCStaff@ashrae.net

These draft minutes have not been approved and are not the official, approved record until approved by this committee

ASHRAE TC 6.10 Meeting Minutes

Date: June 28th, 2011
Location: Montreal, QC

Acting Chair: Bill Roy

- 1) Call to Order – Meeting was called to order at 3:33PM
- 2) Quorum Determination – Three of 10 voting members were present, so no quorum was established.
- 3) Review and Approval of Minutes - The minutes of the 2/1/2011 meeting in Las Vegas were reviewed but could not be voted on due to the lack of a quorum. Mr. Roy agreed to letter ballot approval of these minutes.
- 4) Liaison Reports – The following reports from other committees were presented:
 - a. Professional Development Committee (PDC) – Saunders Smith reported that the PDC is looking for members to develop and present technical courses. These courses should be approximately three hours long and be suitable for earning professional development hours. These courses may be offered during ASHRAE meetings or at other locations. Ms. Smith noted that ASHRAE will pay the instructor for their travel expenses, but not for the development of the course itself. Any members interested in teaching such a course should first develop the basic course content and submit it to the PDC.
 - b. Section 6 – John Dunlap (Section 6 Leader) reported the following:
 - i. A mixer is planned at the Chicago meeting for new ASHRAE members.
 - ii. Volunteers are needed to review technical papers. Anyone interested should advise the Section via Mr. Roy.
 - iii. Nominations for the Hightower Award are now being accepted.
 - iv. Requests for “Thank you letters” (letters to committee member’s employers thanking them for the member’s participation) must be made before mid-July.
 - v. A certificate of appreciation will be awarded to Earl Rightmier, the departing TC 6.10 chair, for his service in that capacity.
 - c. Chair Meeting – Mr. Roy reported on the TC chair breakfast:
 - i. Julia Keen reported that any TC putting together a set of three speakers on a given topic is almost certain to get a program “slot” at an upcoming meeting. Additional discussion on this topic ensued, but is presented in the Program section of these minutes.
 - ii. ASHRAE would like to see all voting TC members serve on a subcommittee. Mr. Roy assigned, or acknowledged, the following participation on TC 6.10 subcommittees:
 1. Larry Brand – Research
 2. Tom Butcher – Program Chair
 3. Earl Rightmier - Research Chair
 4. Marc Neufcourt – Programs
 5. Paul Sohler – Handbook
 6. Corey Weiss – Handbook Chair

Mr. Roy said he would touch base with the voting members not on the above list to see where they would like to serve.

- d. Research - Jaap Hogeling (Research Liaison) – Mr. Hogeling reported the following:
 - i. ASHRAE staff had told him that they had not yet received a vote from the committee approving the 1388 (High Altitude Boiler and Water Heater Research Project) report or paper. Mr. Roy assured him that in fact both had been approved by the committee and submitted to ASHRAE several weeks ago.
 - ii. Mr. Roy informed Mr. Hogeling that project 1517 (Combustion Driven Oscillation in Boilers) is on schedule.
 - iii. Mr. Hogeling asked about the status of the 1497 RTAR (Vent Software). Mr. Roy reported that its status is currently uncertain since GTI has accomplished many of the goals originally set for this project. In the absence of any member interest in pursuing this project further, it may be allowed to die.
 - iv. Mr. Hogeling announced that he will no longer be serving as the Research Liaison for TC 6.10. The new Research Liaison will be Steve Hancock.
- 5) Handbook – Mr. Weiss reported on Handbook subcommittee activities and also submitted minutes of the subcommittee meeting held on June 27th :
- a. The *Systems and Equipment* Chapters have been submitted to ASHRAE. Mr. Weiss has not yet seen the galleys for them, however.
 - b. ASHRAE wants the handbook chapters to contain at least one practical design example, a sustainability calculation and include an international perspective.
 - c. The “CD+” versions of the handbooks are being discontinued.
 - d. ASHRAE is looking for smart phone applications incorporating handbook material.
 - e. The subcommittee’s current focus is Chapter 28 in the *Fundamentals* handbook (Fuels and Combustion). Revisions to this Chapter are due at ASHRAE by sometime in early 2012 (after the Chicago meeting). Mr. Weiss has obtained volunteers to review all of the chapters in this section except for:
 - i. Fuel Classification
 - ii. Gaseous Fuels
 - iii. Combustion Calculations
- Mr. Weiss will review the references to make sure that they are still available and also to make sure that any “permission letters” required for these references are obtained. Mr. Weiss also distributed a schedule for the subcommittee to use in revising this chapter. This schedule calls for subcommittee members to have initial revisions to Mr. Weiss by August 31st and for the final draft to be voted on at the subcommittee’s January 24, 2012 meeting.
- 6) Research – Mr. Roy reported that Earl Rightmier is the incoming chairman if the Research Subcommittee. In addition, the following projects were discussed:
- a. Mr. Sohler provided a brief update on the status of RP1517 (Combustion Driven Oscillations in Boilers). He noted that the testing to establish the conditions under which the two test boilers exhibit combustion driven oscillations is complete and that Dr. Baade (the PMS head) and Dr. Herron (the contractor’s team leader) were not certain that the original model would predict the oscillations observed in boiler #2 because they think that these oscillations are at least in part caused by oscillations in the air-fuel ratio. Mr. Sohler reported that measurement of the cold impedance of the two boilers is now underway.

- b. In response to Mr. Sohler's report, the TC discussed posting the latest University of Kentucky power point presentation (from the April 18th meeting), as well as a video of Dr. Baade's December 9th 2010 lecture (held at U of K) on the TC 6.10 website. After some discussion, the following plan was arrived at for doing this:
 - i. Bill Roy will ask David Herron for permission to post both of these items on the website.
 - ii. If such permission is granted, Mr. Sohler will review the Power Point slides and remove any photographs, or other information, which could allow the viewer to identify the manufacturers of the boilers used in this project.
 - iii. Mr. Roy will forward the revised slides to the donors of the boilers for permission to post these slides.
 - iv. Dr. Butcher will post all items approved by the appropriate stakeholders onto the web site.
 - c. Mr. Roy reported that the paper and reports for RP1388 (High Altitude Boiler and Water Heater Research Project) were approved by the TC and sent to ASHRAE. Mr. Roy said that he would approach Carl Suchovsky (the contractor) about presenting the paper in Chicago.
 - d. Dr. Butcher said that he would contact Larry Brand of GTI to see if he has any interest in revising the scope of, and resubmitting, RTAR1497 (Gas Venting Software).
- 7) Website – Dr. Butcher reported that the website is up and running, but has very little content at the moment. After some discussion, it was agreed that Mr. Roy would contact the Section 6 leader to see whether links to TC member's employer websites could be posted without violating ASHRAE "commercialization" policies.
- 8) Programs – The deadline for submitting papers to ASHRAE for the Chicago meeting is July 8th and the deadline for submitting seminars is August 12th. The following programs were discussed for the Chicago meeting:
- a. Presentation of the RP1388 paper by Carl Suchovsky.
 - b. A forum on portable combustion analyzer field experience chaired by George Kusterer and including representatives of interested combustion analyzer manufacturers. Dr. Butcher agreed to prepare an abstract for this program and also to approach TC 1.2 to see if there is any interest in co-sponsoring this program.
 - c. A seminar on "new combustion technology". Tom Butcher will approach Larry Brand to see if he has any interest in developing this seminar. Dr. Butcher also agreed to develop the abstract for this seminar.
 - d. A seminar on greenhouse gas emissions for various fuels from source to use. Mr. Albrecht will develop a title for this seminar and also chair it. Mr. Roy agreed to develop the abstract for this seminar and also to contact Neil Leslie of GTI to see if he is interested in participating. Mr. Albrecht agreed to find a contact to represent bio diesel.
- 9) Standards – Mr. Neill provided a brief update on the status of draft standard 155P (MOT for measurement of commercial boiler seasonal efficiency).
- 10) Adjournment – Meeting was adjourned at approximately 6:00PM

Respectfully Submitted,

Paul Sohler
Acting Secretary