

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 1/2/14  
TC/TG/MTG/TRG TITLE FUELS AND COMBUSTION  
DATE OF MEETING 6/25/13 LOCATION Denver CO

MEMBERS PRESENT	MEMBERS ABSENT	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Larry Brand (VM)	Bill Roy (VM – Chr)	Craig Grider (G)
Tom Butcher (CM – V.Chr, prg)	David Bixby (CM)	Steve Hancock (L/Research)
Mehdi Doura (CM)	Paul Glanville (CM)	Diane Jakobs (G)
Jennifer Guerrero- Ferreira (CM-hb)	Shamel Kassab (VM)	Anuj Mistry (G)
David Herrin (CM)	Earl Rightmier (CM – rsch.)	
George Kusterer (VM)	Hall Virgil (VM)	
Thomas Neill (CM)	Justin Westmoreland (CM)	
Paul Sohler (VM-Sec.)		
Cory Weiss (CM)		
Aykut Yilmaz (CM)		

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

Distribution

ALL MEMBERS OF THE TC/TG/TRG

TECHNICAL ACTIVITIES COMMITTEE CHAIRMAN: Walter Grondzik ([TACchair@ashrae.net](mailto:TACchair@ashrae.net))

TAC SECTION HEAD: Mark Hegberg ([mhegberg@comcast.net](mailto:mhegberg@comcast.net))

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## ASHRAE TC 6.10 Meeting Minutes

Date: June 25<sup>th</sup>, 2013  
Location: Denver, CO

Chair: Paul Sohler (Acting)

- 1) Call to Order – Meeting was called to order at 3:33 PM
- 2) Quorum Determination – Three of six voting members were present at the beginning of the meeting, so no quorum was established.
- 3) Approval of Agenda - The TC reviewed, but made no changes to, the agenda distributed prior to the meeting.
- 4) Review and Approval of Minutes – No vote was taken to approve the minutes from the January meeting in Dallas because of the lack of a quorum, however the following two corrections to these minutes were noted:
  - a. Mr. Mistry noted the name of the AHRI Gas Detector and Analysis Section was incorrectly reported in the Programs section of the minutes as the “AHRI Analyzers and Analysis Section”. In addition, it was noted that members of this section would work on the program, not the AHRI section itself.
  - b. It was noted that “My” should be “Mr” in the last bullet under “other business”.

Mr. Sohler agreed to make the above corrections and submit the revised Dallas minutes for approval by the committee.
- 5) Liaison Reports – The following reports from other committees were presented:
  - a. Research - Steve Hancock (Research Liaison) provided the following updates:
    - i. Mike Vaughn had again requested a project “Disposition of Research Form” to close out RP1388 (High Altitude Boiler and Water Heater Research Project). Mr. Sohler reported that he had completed and submitted this report.
    - ii. The TC needs to approve the report presented by the contractor for RP1517 (Combustion Driven Oscillations in Boilers).
    - iii. There is lots of funding currently available for research and relatively few projects in the application process.
    - iv. There is a new format for RTARs
  - b. Section 6 – John Dunlap reminded the TC to include categories on the committee roster so that it is possible to verify membership balance. Mr. Sohler also provided a brief report on the Section 6 breakfast, noting that Mark Hegberg will be replacing John Dunlop as Section 6 Chair effective July 1. He also noted that Winter Meeting (New York) program submittals were due by August 12<sup>th</sup>. Finally, he reported that the TC 6.3 chair has approached him at the breakfast about co-sponsoring the Combustion Analyzer program.
- 6) Handbook – Jennifer Guerrero- Ferreira reported that the TC is scheduled to review Chapters 31 (Automatic Fuel Burning Systems) and 35 (Chimney, Vent, and Fireplace Systems) in *HVAC Systems and Equipment*. Changes to Chapter 31 are due April 11, 2015 and changes to Chapter 35 May 9<sup>th</sup> 2015. Dr. Butcher and Mr. Sohler volunteered to review Chapter 31.

- 7) Research – The status of RP1517 (Combustion Driven Oscillations in Boilers) was discussed. Mr. Sohler reported that he had letter balloted the PMS for a recommendation to the TC for approval of the report shortly before the meeting. He also reported that one of the reviewers of the papers felt that they needed additional revisions before being published and before the TC approved the report. As a representative of the contractor, Dr. Herrin reported that he had only become aware of these concerns a few hours before this TC meeting and was concerned that these papers might be permanently pulled from publication if he attempted to make any revisions to them at this point. Tom Butcher and Larry Brand agreed with this concern and also noted that, for better or worse, the review of the papers falls primarily within the purview of the peer review process, not the TC.

During this discussion, a member of the PMS who was present cast the remaining outstanding vote in favor of recommending approval of the report to the TC. Because a quorum was not present, Mr. Sohler said he would letter ballot the TC for approval of the research report.

It was reported that two of the RP1517 papers were to be presented the next day. A third paper is to be released in January that will focus on applying knowledge gained from this project in the boiler design process.

Possible future research projects were discussed including:

- A follow-up project to RP1517 possibly co-sponsored with TC6.6 (Service Water Heating Systems) and focused primarily on combustion driven oscillation in water heaters. One of the reasons given for focusing on water heaters was their “simpler design” which might make application of the 1517 model simpler. Mr. Doura questioned the premise that water heaters are acoustically simpler. Mr. Kusterer said that he thought this project should include modulating burner systems. It was also noted that Earl Rightmier had volunteered to draft a work statement for this project. Mr. Sohler agreed to check with Earl on the status of this and also to contact the chair of TC 6.6 to see if there is interest in co-sponsoring such a project.
- It was reported that SPC62.2 had submitted an RTAR covering unvented appliances. A discussion ensued about the desirability of co-sponsoring this. Larry Brand asked if residential cooking issues might fall under TC6.10s scope and also noted that LBNL has been doing a lot of work on combustion safety in commercial cooking. Both Larry Brand and Tom Butcher urged caution in becoming involved with this project.
- Tom Butcher suggested pellet stoves and/or pellet storage as possible topics for research project. There was general agreement that these would be valid topics for an RTAR.

- 8) Website – The following items were suggested for inclusion on the website:

- The abstract from the RP1517 report
- Updated membership list
- Photos (or videos) of “interesting flames”
- Video of Dr. Baade’s 2010 presentation on combustion driven oscillation at the University of Kentucky.
- Links to some of the videos and/or photos from the RP1517 project (with permission of equipment donors).

- 9) Programs – It was agreed to propose two seminars for the New York meeting; one on the design and application of combustion analyzers and a second covering biomass combustion, as well as wood pellet storage). Mr. Kusterer agreed to chair the first seminar and Tom Butcher agreed to prepare proposals for both seminars and also to find speakers for the biomass seminar.

Dr. Butcher also proposed that 6.10 sponsor a trip to Brookhaven National Labs on the Wednesday, January 22<sup>nd</sup>. Mr. Sohler agreed to send an email to the TC shortly before the New York meeting to see how many members would be willing and able to visit.

- 10) Standards – It was reported that the NFPA-31 committee has been reconvened to work on the 2015 edition.

- 11) Membership – Effective 7/1/13 the following changes in membership occurred:

- Mr Kuster and Mr Roy rolled off as voting members

- Tom Butcher, Mehdi Doura, Jennifer Guerrero- Ferreira, and Earl Rightmier rolled on as voting members.
- Paul Sohler is TC Chair
- Tom Neil volunteered to replace Paul Sohler as secretary
- Anuj Mistry asked to be added as a corresponding member

12) Adjournment – Meeting was adjourned at approximately 6 PM.

Respectfully Submitted,

Paul Sohler  
Secretary

DRAFT