

ASHRAE TC 6.7 – SOLAR ENERGY UTILIZATION
Summer Meeting – April 23, 2001
ASES/Solar 2001– Meeting Room 9, Renaissance Hotel, Washington, D.C.

APPROVED MEETING MINUTES

Meeting Called to Order: 7:05 PM

Attendees:	Henry Healey (VM)	-	Chairman
	Tim Merrigan (VM)	-	Vice Chair/Standards Subcommittee Chair
	Dave Menicucci (VM)	-	Sandia National Labs
	Paul Ziegler (VM)	-	Research Subcommittee Chair
	Brian Dougherty (CM)	-	NIST
	Jim Huggins (CM)	-	FSEC
	Fairborz Mahjouri(CM)	-	Thermomax
	Bruce Hunn	-	ASHRAE TD
	Josh Plaisted	-	Sun Earth
	David Kunz	-	Taco

There was a quorum with 4 of 7 voting members present.

INTRODUCTIONS

The attendees made self-introductions and a roster was circulated. Minutes from the January 2001 meeting of the technical committee were not available for review. Henry Healey circulated a meeting agenda (see attachment). Henry Healey and Brian Dougherty agreed to collectively be responsible for the meeting minutes.

MEETING COORDINATION BETWEEN ASES AND ASHRAE ANNUAL MEETINGS

Technical Committee 6.7 has established a policy of having its Asummer@ meeting at the annual meeting of the American Solar Energy Society (which is usually co-sponsored by ASHRAE and others) in order to improve attendance by both TC members and members of the solar energy community. The attendees reaffirmed that this strategy has been effective, should be continued, and agreed to meet at the ASES meeting in June 2002 (Reno, Nevada)

Tim Merrigan and Brian Dougherty plan to attend the ASHRAE 2001 Annual Meeting in Cincinnati. They agreed to cover the time slot reserved for a TC 6.7 meeting.

HANDBOOK

Attendees reasserted the need to perform a major rewrite of the handbook chapters on solar energy: Applications Handbook, Chapter 32 and System & Equipment Handbook, Chapters 15 and 23. The general opinion is that the existing chapters are too technical and need to be better tailored for use by the field engineer/designer. Attendees suggested seeking input on the handbook content from ASHRAE members, possibly via requests to regional councils and/or each ASHRAE Chapter president.

Dave Menicucci recalled that he had generated a list of recommended Handbook changes a few years ago. Dave indicated that he would see if he could locate those recommendations and provide those to the Handbook subcommittee chair, Mark Hertel. Jim Huggins stated that the Florida Solar Energy Center has printed information that committee members may want to review while revising the handbook chapters. Henry Healy and Fairborz Mahjouri volunteered to review handbook chapters and possibly assist with generating an outline.

PROGRAMS AND EDUCATION

Program possibilities for the ASHRAE 2002 Winter Meeting in Atlantic City were discussed. Possibilities included holding a forum that would seek to get suggestions on the handbook chapters. Paul Zeigler suggested holding a

seminar on “green building” case studies. Other technical committees that address sustainability issues (TCs 1.10, 4.12, and TG titled Building Impacts and the Environment) may be willing to co-sponsor. The attendees also endorsed holding a continuing education course on cost effective commercial and industrial solar applications. Henry Healy would be the recommended instructor.

For the 2002 summer meeting at the ASES conference in Reno, holding an ASHRAE-type seminar was suggested. Attendees agreed that they should seek speakers from the local ASHRAE chapters. Henry Healy will speak with Byard Wood for possible speakers and topics. Bruce Hunn is on the planning committee for the Reno conference. The TC, in addition, is leaving open the possibility for a program at the 2002 ASHRAE Annual meeting in Honolulu. The Honolulu meeting is scheduled a week after the 2002 ASES conference.

As an element to his ASHRAE-funded research project, Steven Strong will write a technical paper. This paper may be ready for either the Reno or Honolulu conferences. One other name suggested as a possible speaker within a future TC 6.7-sponsored program was FSEC’s Danny Parker.

Henry Healy also reported on a solar energy workshop that was held at the start of the ASES conference. The workshop -- which was taught by Henry, Steven Strong, and Paul Torcellini -- was attended by approximately 40 people and well received. TC 6.7 meeting attendees agreed that such a workshop should be considered for the 2002 ASES meeting. Finally, the idea of an advance solar energy workshop was suggested as another possibility for the ASES meeting.

STANDARDS

The attendees discussed the option of adopting ISO standards in lieu of revising ASHRAE Standards 93 and 96. Jim Huggins is coordinating this effort and will report to the committee at the next meeting.

RESEARCH

The TC is presently sponsoring one research project. The project seeks to demonstrate the feasibility of a combined thermal/photovoltaic solar collector. The submittal date for the final report has been exceeded and a no-cost extension has been requested from ASHRAE. Paul Zeigler has asked the research project’s principal investigator, Steven Strong, to include the following in the final report: (1) recommendations for follow-up work, (2) identify applications for the hybrid collector technology, and (3) provide supporting information and data. Paul expects the final submission from Steven Strong in the next few weeks. Paul Zeigler, Dave Menicucci, Tim Merrigan, and Henry Healy serve on the project monitoring subcommittee. Steven Strong will make a presentation on the Wednesday after this meeting as part of the 2001 ASES conference. A research forum is scheduled immediately after this presentation.

Paul Ziegler commented that a previously submitted work statement on solar absorption chiller optimization needs to be revised in accordance with comments received from the ASHRAE Research Administration Committee. At the previous Winter ASHRAE meeting in Atlanta, Paul had been unsuccessful in his attempt to find a TC to co-sponsor the work statement.

NEW BUSINESS

In some cases, ASHRAE sells non-ASHRAE publications if they are deemed useful to the ASHRAE membership. IEA may be one source of useful solar energy publications. Bruce Hunn indicated that ASHRAE’s Steve Comstock should be consulted if the committee identifies appropriate non-ASHRAE publications that should be considered for sale by ASHRAE.

The meeting was adjourned at 8:30 PM

Submitted by Brian Dougherty and Henry Healy