



# AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

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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:** TC 6.9

**DATE:** Wednesday August 8, 2012

**TC/TG/MTG/TRG TITLE:** Thermal Energy Storage

**DATE & LOCATION OF MEETING:** Monday, June 25, 2012 San Antonio, TX

VOTING MEMBERS PRESENT	YEAR APPTD	VOTING MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Lucas Hyman	2010	Chang Sohn	2002	Michael Frohnapple
John S. Andrepont	2011	John H. Nix	2011	Mike Filler
Brian M. Silveti	2000			Joe Swann
Geoffrey Bares	2011			Julian de Bullet
Guy Frankenfield	2011			Drew Overmiller
Charissa Garcia	2012			Jennifer Rees
Robert R. Willis	2011			Yoram Shabbay
John F. Dunlap	2010			Hal Stillman
Scott A. Shaffer	2011			Kenneth M. Fulk-CM
Paul Steffes	2002			John E. Kraft-CM
Harshal R. Upadhye	2011			Charles E. Dorgan-CM
				Ivan Thomas-CM
				David E. Knebel-CM
				Ed P. Lohrenz-CM
				Henry A. Becker-CM
				Verle A. Williams-CM
				Gregory Henderson-CM
				Jeffrey M. Kane-CM
				Steven Benz-CM
				Ahmad K. Sleiti-CM
				Mark M. MacCracken-CM
				Douglas T. Reindl-CM
				Dharam V. Punwani-CM
				Larry Markel - CM

### DISTRIBUTION

*All Members of TC/TG/MTG/TRG plus the following:*

<b>TAC Section Head:</b>	Lucas Hyman of Goss Engineering Inc.
<b>TAC Chair:</b>	Charlie Culp of Texas A&M
<b>ALL COMMITTEE LIAISONS AS SHOWN ON TC/TG/MTG/TRG ROSTERS:</b>	
<b>Manager Of Standards</b>	
<b>Manager Of Research &amp; Technical Services</b>	

## ASHRAE Technical Subcommittee 6.9 - Thermal Storage

### Meeting Minutes – San Antonio, TX

June 25, 2012

#### **1. Preliminaries**

- a. The meeting was called to order at 4:30 PM by Lucas Hyman, Chair.
- b. The agenda and sign in sheet were distributed. (attached separately)
- c. A roll call of voting members was taken.
- d. A quorum of voting committee members was established; 10 of the 13 voting members attended this meeting.
- e. Self introductions were made.
- f. There were no changes to the agenda as proposed.

#### **2. Approval of Minutes**

Minutes from the 2012 winter meeting in Chicago, IL were reviewed and two minor typo changes (Bares & swapped) were noted. Steve Benz made a motion to approve minutes with the two minor typo changes. Robert Willis seconded the motion. Motion passed unanimously.

#### **3. Announcements by Chair – Lucas Hyman**

- a. If you want to be a “reviewer” of technical documents, please notify Lucas Hyman.
- b. Track Sessions – we may consider having a future [“District Energy”](#) Track Sessions with TC 1.10 and 6.2.
- c. ASHRAE has a Wiki that provides a description of acronyms.
- d. There will be Research Training in Denver.
- e. Presentations will be made by ASHRAE to some chapters by TC members to educate them on the TC’s.
- f. ASHRAE logo has changed. ASHRAE (the logo) is no longer an acronym.

*These Draft Minutes have not been approved and are not the Official, approved record until approved by the committee.*

#### **4. Liaison Reports –**

- a. Professional Development – no report
- b. Section 6 TC Section Head – John Dunlap –
  - i. In upcoming conferences there will be no themes to the programs.
  - ii. In the future, TC 6.9 can hold a “virtual” meeting but some rules will apply.

#### **5. Handbook, Guy Frankenfield**

- a. Our revisions were included in the recently published 2012 Systems and Equipment Handbook, Chapter 51.
- b. Guy Frankenfield is stepping down from this position.
- c. John Lau will be the new Handbook Chair beginning immediately.
- d. See the attached Handbook Meeting minutes for more details.

#### **6. Programs, Geoff Bares**

- a. John Andrepont and Geoff Bares are planning on developing a Track Session on District Energy.
- b. Geoff provided a summary of the past program in Chicago.
- c. Geoff provided a summary of the current seminar in San Antonio.
- d. Geoff provided a summary of the future program submittals.
- e. See attached Programs Agenda for more details.

#### **7. Standards, Robert Willis**

- a. The status of SPC 150 – a meeting was held on June 24, 2012.
- b. Robert provided a summary of the Standards subcommittee meeting.
- c. See attached Standards Agenda for more details.

#### **8. Long Range Planning, Lucas Hyman**

- a. A short course on TES is planned to be updated ~~by Charissa Garcia and Steve Benz.~~
- b. Updating the TES Design Guide will be handled as a Research project.
- c. Advocacy – white paper by AHRI. ASHRAE can advocate but not lobby.
- d. Website – for corrections to the website, please send specific corrections to Charissa Garcia.

**9. Research, Brian Silvetti**

- a. Brian provided a summary of the two research projects.
  - i. The tool for Carbon Emission Metrics is still being worked on by NREL (under the direction of Michael Deru). NREL has milestone dates of August and October of 2012 to provide presentations to show progress. It is recommended that we continue to keep our Work Statement on hold awaiting the outcome of NREL's tool.
  - ii. Larry Markel is working on revising the "...TES to Increase the Effectiveness of Wind Energy..." work statement.
- b. Brian provided a summary of the Research projects.
- c. See the attached Research Agenda.

**10. Old Business**

No old business.

**11. New Business**

- a. We will continue with the new schedule where the subcommittee meetings are on the same day as the main TC 6.9 meeting.
- b. The official roster was not updated by ASHRAE, even though changes were submitted by the Chair immediately after the Winter meeting in Chicago. Lucas Hyman will continue to follow up.
- c. If you would like to commit to being a voting member, please see Lucas Hyman.
- d. A presentation on a new Phase Change Material will be provided after this meeting is adjourned.
- e. Hans Hansen of TC 6.1 would like to work with us on a CHW program in Denver, or Track Session in New York.

**12. Adjourn**

Motion by John Andrepont to adjourn, and seconded by Steve Benz. Motion passed unanimously, and the meeting was adjourned.