

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

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TC/TG/TRG MINUTES COVER SHEET

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

TC/TG/TRG NO TC 3.5 DATE _____

TC/TG/TRG TITLE Desiccant and Sorption Technology

DATE OF MEETING 1/27/2003 LOCATION Chicago, IL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Steve Slayzak	02	Jerry Wurm	01	Steve Brickly (CM)
Wayne Caudle	01			Jim Sand (CM)
Marek Czachorski	01			Ali Jalalzadeh (CM)
Lew Harriman	02			Bill Worek (CM)
Rich Sweetser	99			Andy Lowenstein (CM)
Ed Vineyard	02			Davor Novosel (CM)
Milton Meckler	00			Joseph A. Pietsch (CM)
Bill Lull	99			David Simkins (CM)
Bill Belding	99			Stanley Slabinski (CM)
Bill Griffiths	99			Stephen Petty (CM)

DISTRIBUTION

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

TAC SECTION HEAD:	
TAC CHAIR:	
ASHRAE MANAGER OF TECHNICAL SERVICES:	
ALL COMMITTEE LIAISONS AS SHOWN ON TC/TG/TRG ROSTERS:	
ADDITIONAL DISTRIBUTION	
MANAGER OF STANDARDS MANAGER OF RESEARCH	Claire Ramspeck Bill Seaton

Minutes of the ASHRAE TC 3.5 Meeting

Chicago, IL, January 27, 2003

- 1) The meeting was called to order by Chairman Steve Slayzak at 2:15 p.m.
- 2) Self-introductions were made.
- 3) Roll call: nine (9) voting members and seventeen (17) corresponding members and guests were present. Quorum was met.
- 4) The agenda for the meeting was approved by 9-0-0.
- 5) Motion to accept the Minutes of the June 2002 meeting in Honolulu passed (9-0-0).
- 6) The Chairman presented communication and news items:
 - a. The current website meets the needs of TC. Bill Worek will oversee the web site.
 - b. Seminar presentations can now be posted on the ASHRAE website as PDF files. If a file is too large, it should be sent to Bill Worek on a CD. Seminar presentations have not been peer reviewed in the past.
 - c. ASHRAE requires a liaison from each TC to ASHRAE Learning Institute (ALI). Ali Jalalzadeh volunteered to serve as a liaison to ALI.
 - d. E-News Letter has been very useful.
 - e. Lew Harriman pointed out that it is now easier to have papers published in the ASHRAE Journal. Authors can identify potential reviewers.
 - f. Now you can get information from an internet-based audio program.
 - g. There are no nominees for distinguished service. Information regarding the activities of the members in terms of education, publication, and other services should be requested from ASHRAE.
 - h. The general consensus was that it is a good way of appreciation to offer an extra copy to those who review the handbook chapters. A motion made by Lew Harriman for continuing this reward passed by 9-0-0 votes.
- 7) Subcommittee reports:
 - a. Membership: A number of people, including Jim Sand, expressed interest in becoming a voting member.
 - b. Handbook: Lew Harriman reported that the revision of Chapter 22 in Systems is due March 2003, but no major changes are required. The website will have a desiccant calculator and will offer links to PDF files. Lew will handle (electronically) the review of the proposed modifications to the handbook. Chapter 22 of the Fundamentals has to be revised in the future as well, although no major revision seems to be necessary.

George Carscallen, an ASHRAE handbook liaison, notified that the deadline for revision of the Fundamentals is March 15, 2004. Some information that could be included in the CD version may not be available in the hardcopy. Any available animation for desiccant technology should be sent to Lew Harriman for his review and consideration for the CD handbook.

- c. Program: Ed Vineyard reported that three papers had been received for the symposium in Kansas City; and the symposium will take place.
- d. Research: Steve Brickley pointed out that the research funding is down. The number of research projects has dropped from 100⁺ to about 80. Critical research areas should be identified. One RTAR is still in the system which has not been approved yet. Bill Lull stated that there should be coordination with TC 2.3 RTAR. He said that this TC is now in part II of a research on VOC sorption in building materials. Milt Meckler raised a question of whether there should be a research on the VOC discharge from desiccant wheels to the process air. Jim Sand stressed the importance of this issue in IAQ. Those who are interested in this topic will work with Lull to prepare an RTAR.
- e. Education: Bill Worek reported that seventy five (75) people attended Part I of Humidity Control Course that he covered. Lew Harriman was going to cover Part II. (Both parts were offered at the ASHRAE Meeting in Chicago.)
- f. Standards: Wayne Caudle reported that there was a discussion on packaged systems in the Hawaii meeting with no quorum. The committee for Standard 174 was scheduled to have a meeting on the same day, January 27, following the TC meeting. There are no comments from the public on Std. 174. A new committee liaison has been appointed for Std. 174.

8) Liaisons:

- a. Air-to-Air: Davor Novosel mentioned that an ASHRAE research project was previously performed on certain desiccants to investigate their potential role in air cleaning. The research report can be obtained from ASHRAE. He also added that research is needed to investigate the effect of desiccants on bio-contamination removal.

Standards cannot be reaffirmed more than once without a review from a standard review committee. ANSI process has a 10-year cycle. Other standards organizations have cycles less than 10 years. Arthur Hallstrom reported that Standard 139 is in good shape.

- b. ARI: No report.

- 9) New Business: Lew Harriman stated that people are interested in mole/mildew issues. He added that an ad hoc committee has been formed to prepare 1) position briefing (ASHRAE's position related to this issue), 2) documentation (definitions), and 3) recommendations for mold prevention publication (maximum of 20-30 pages). This committee will report to the ASHRAE board for a decision. If the committee's report is approved, ASHRAE will set up another committee to write up a report for legislature.

Bill Lull addressed the importance of having a liaison with other ASHRAE TC's, including the new TC 9.14, Moisture Management.

10) Old Business: None.

11) Adjournment: (9) Approved, (0) Against, and (0) Abstain

General Information on TC 3.5

Scope of Technical Committee 3.5, Desiccant and Sorption Technology:

TC 3.5 is concerned with the theoretical aspects of sorption, the performance of liquid and solid sorbents, sorption equipment and its operation, application engineering and related load calculations. All sorption processes of interest to ASHRAE fall within the scope of TC 3.5, except as it is related to contamination control of refrigeration systems, which are the responsibility of TC 3.3.

Future ASHRAE meetings:

Anaheim, CA	January 24-28, 2004
Nashville, TN	June 26-30, 2004

Note: Presenters receive a discount on the conference registration fee.
You may request an author's manual from ASHRAE (check the web site: www.ashrae.org)

ASHRAE Program Tracks: (Presented to jog your interest: for research / paper topics.)

AH	Air Handling ***
AT	Alternate Technologies *** (desiccant cooling)
AE	Atmospheric Emissions (CFC, Global Warming) ***
CS	Computers and Software
EA	Education / ASHRAE ***
EC	Energy & Controls ***
FWU	Fundamentals ***, Weather ***, Utilities ***
IAQ	IAQ *** and comfort ***
LC	Load Calculations ***
MP	Materials *** and Processes *** (this is really us: TC 3.5)
OM	Operations and Maintenance ***
PRE	Packaged A/C *** and Refrigeration Equipment (proposed new standard)
SA	Systems *** and Applications ***
VAD	Ventilation *** and Air distribution

*** Of interest to TC 3.5

Seminar: Presentation of topical interest: no paper. Note: A seminar presentation may later be submitted as a paper for publication in ASHRAE Transactions but may not be presented in Symposia.