

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING  
ENGINEERS, INC.  
1791 Tullie Circle, N.E./Atlanta, GA 30329  
404-636-8400**

**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. 2.2 DATE Jan. 28, 2013

TC/TG/MTG/TRG TITLE Plant & Animal Environments  
DATE OF MEETING January 28, 2013 LOCATION Dallas, TX

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Jim Coogan	2012	Patrick Carpenter	2011	Henry Hays
Bill Dean	2012	Sheryll Jerez	2009	Carol Donovan
		Lingying Zhao	2012	Xinlei Wang
		Yuanhui Zhang	2011	Scott Rusk
				Kristin Schaefer
				Dave Rausch
				Gerald Williams (net)
				Larry Howlett (net)
				Gerald Riskowski (net)

**DISTRIBUTION**

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

TAC Section Head:	Tom Sobieski
TAC Chair:	William McQuade
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:	
Manager Of Standards Manager Of Research & Technical Services	Stephanie Reiniche Mike Vaughn

### **Call to Order**

Meeting called to order at 4:28 by Jim Coogan

### **Welcome and Introduction / Attendance Sheet**

All in attendance introduced themselves and signed in.

No quorum. 2 of 6 voting members in attendance.

3 attended by web. G Williams. G Riskowski. L Howlett

### **Revise and Accept Agenda**

Agenda reviewed. M: HH S:CAROL

### **Approve Minutes from the Previous Meeting**

Minutes reviewed, no errors reported.

### **Report from Section Head**

D Rausch – will bring list of MTGs

Tom Sobieski visited.

### **Status of the committee**

Overall good shape, six members.

### **Handbook**

Handbook Applications 2015 - Bill reported on the status of the handbook chapters and the pending deadlines. We currently have about a year to review and edit the two chapters assigned to our TC.

### **Research**

RP 1475 (Updating Heat and Moisture Production Rates from Modern Swine) is still behind schedule. It is now nearing the end. They are currently analyzing and summarizing data. Draft report is planned for June meeting and final report August 30 2013. Final technical paper presentation is planned for January, 2014 in NYC. Henry Hays recommended that we need to extend contract to January 22, 2014. The PI presented some data in Chicago, additional time has been spent checking field conditions. Moisture and heat production has changed since the data was last published.

Is there any new research we should consider? It should be linked with handbook review.

Larry Howlett supports a project on seed storage conditions. We need a better definition of seed storage. The duration and purpose for storage affect the required conditions. What do we need to know? Larry has designed seed facilities he wants to formalize the idea and develop it. Larry has been considering an improved theory for osmosis and vapor pressure in seed storage. Bill will work with Larry to help define the requirements. Kristin volunteered to write the RTAR.

X Wang – would like to benchmark energy use in ag buildings. Benchmarking of agriculture buildings could include animal buildings and greenhouses. We could collect data and produce a model then evaluate the number of buildings required to establish benchmarks including swine, poultry, other livestock, greenhouses. This may produce a BEQ for ag facilities. We should start with a paper review of energy use in ag buildings. Kansas bioscience authority funds lots of research and has their own processes. Kristin will see if somebody at Texas A&M has energy data. We should also look at Agricultural Energy Consumers Association. Xinlei will look for some consumption information (probably swine and poultry).

### **Program**

Xinlei Wang is the program chair and reported that the seminar “Tools and Methods to Manage Animal Research Facilities for Effective and Efficient Long-term Operations” on Sunday was success with about 40 in the audience.

Ideas for future programs: Next meeting in Denver there is an equipment track –Energy efficiency in lab equipment. Will try to generate a seminar for Denver with fall back to NYC. Lab TC 9.10 may be interested in co-sponsoring. NIH held a conference on equipment. Equipment would include freezers, autoclaves and animal watering. We could consider a forum on how to select equipment and how to define needs? Carol will attempt seminar for Denver or shift to NYC conference if necessary.

### **Standards**

No activity.

### **Roster**

Jim will add Kristin, Dave and Carol as voting members. Chris Robbian could also be considered. Sheryll Jerez rolls off in June. Jim will check attendance records, to see if any other voting member should become a corresponding member.

A discussion of the ideal number of committee members was held. The objective will be to have 7 voting members. Jim to issue roster to TAC.

### **Announcements**

- TAC is encouraging nominations for the Hightower award.
- Review ASHRAE CODE OF ETHICS
- TAC has a PowerPoint presentation on TC's for chapter meetings
- Draft of refrigeration guide out for review
- Please update your bio for employment discipline before Denver.
- Promote electronic and physical meetings.
- New MTGs formed. David will get list of MTGs and see if the TC should be aware
- Volunteers are requested to review papers and help as session chairs. Xinlei will prepare a list of reviewers. Kristin will volunteer as will Jim. Training for program subcommittee chairs will be Tuesday. Kristin will go instead of Xnlei.

**Old business**

None

**New Business**

Electronic meeting did not work for the whole meeting today. We were able to use it initially to get some information from the three corresponding members on-line.

Membership is still an issue. We need to think strategically about what the TC wants to accomplish and who it aims to serve.

Our immediate approach is to take prompt action on the items discussed in this meeting, to involve the members.

**Adjourn**

Motion to adjourn at 6:30 by Henry Hayes.