

MEETING MINUTES

Technical Committee TC3.6 Water Treatment Tuesday, January 15, 2002 Atlantic City, NJ

Chairman Mark Hodgson called the meeting to order at 1:00 PM.

Members and guests in attendance introduced themselves. Eleven voting members were in attendance, constituting a quorum.

Amended minutes of the Cincinnati meeting were approved. Amendments are shown below:

- Regarding **Efficacy of “shutdown-and-clean” versus “best routine practices” for control of Legionella**, Mike Adams volunteered to check with a sheet metal contractor he knows to see if he could build the test unit and provide an estimated price. Also, text for the work statement “good water treatment” practices will have to be agreed to and written before the bid process, with flexibility for adjustment after the site is known. Kerry Zimmerman will be included in the review of “good water treatment” with Howard Benisvy, Mike Adams, and Bill Pearson.
- Current project **What is the Economic Impact of the Aging of Pipe in HVAC Systems?** is from TC6.1 (Hydronic Systems) with co-sponsorship by TC8.10 (Centrifugal Pumping and Piping), not TC5.7 (Evaporative Coolers).

Section Chair Breakfast summary – Mark Hodgson:

- There has been concern expressed regarding attendance at the Honolulu meeting. Each Voting Member should contact Mark Hodgson to confirm whether they will be attending. If too few members are present to constitute a quorum, no meeting will be held.
- Mark Hodgson confirmed that scheduling the Program, Research, and Handbook committee meetings on Sunday afternoons, with the TC3.6 meeting on Tuesday afternoon is acceptable.
- Mark Hodgson provided clarification concerning maintenance of the ASHRAE Handbook. Since the official handbook is now the CD-ROM version, it should be viewed as open for continuous revision, as opposed to having specific target dates for making revisions. Efforts should be made to make the Handbook interactive – graphics, video clips, interactive calculations, etc. are all encouraged.
- TC3.6 needs a Webmaster. Mark reported that ASHRAE will now provide a host location, and training will be provided in Hawaii. Barry Fields and Hal Roth have volunteered, pending what ASHRAE comes up with relative to training in Honolulu.

- The Program subcommittee requests that program submittals for Honolulu be submitted electronically. The deadline for submissions of programs for Honolulu is February 8.
- If you see ASHRAE standards quoted in the marketplace, advise Mark Hodgson.

Handbook Subcommittee Report – Mike Adams

Modifications to the Water Treatment chapter will include a paragraph on magnetics (Young Cho), a brief discussion on Legionella (Bill Thomas), and an intro for Guideline 12-2000 (Dave Geary). Target date for completion is in August.

Program Subcommittee Report – Hal Roth:

- **Atlantic City** – Forum 21 “Utilization of Guideline 12-2000” is scheduled for Wednesday, January 16 at 9 AM with David Geary moderating. Concern was expressed that the timing (last day of the meeting) and abbreviation of the title may affect attendance.
- **Honolulu** – It was moved and accepted unanimously that a seminar be presented in Honolulu titled “Protecting Idle Equipment”. Discussions to include (a) What goes wrong in idle equipment?, (b) Idle system failures – boilers, open recirculating cooling systems, chilled systems and potable; (c) New construction lay-up and start-up; and (d) Seasonal lay-up and re-start. Speakers will most likely be H Benisvy, R Wood, M Adams, and M Hodgson, with H Roth moderating.
- **Chicago** – We are planning a symposium. Papers must be completed and reviewed by August 2. Possible topics for papers:
 - RP954 – Biocide Efficacy vs. Legionella – Bill Thomas
 - RP1155 – Non-Chemical Water Treatment – Young Cho
 - Ford’s Experiences regarding Legionella Outbreaks and Corrective Action Taken – Mark Hodgson
 - Any others? Contact Hal Roth

Research Subcommittee Report – Amanda Meitz

- **Legionella and Biocides RP-954** – Barry Fields reported that he project is well behind schedule, but the rig has now been overhauled, and testing is to resume. Barry reviewed the test protocol for the duration of the project. Testing should end by April 1, with a draft of the manuscript submitted by May 1. Presentation in Chicago is anticipated. A discussion ensued regarding acceptable dosages of isothiazolin and THPS. H Benisvy and B Pearson are to determine what dosages should be tested, and report to Barry so that Bill Thomas can be advised.
- **Magnetics RP-1155** – Alan Spence reported that the testing is 90% complete in 90% of the time at 90% of budget! Young Cho gave an overview of results seen to date. It is anticipated that a paper will be presented in Chicago.
- **White Rust RP-988** – This paper has not been presented. Amanda Meitz will investigate.

- **Efficacy of “shutdown-and-clean” versus “best routine practices” for control of Legionella** – No activity since Cincinnati. It was agreed that the approach outlined in Cincinnati was sound (see minutes of that meeting for details), and that an owner was needed to assure that this moved forward. Dave Geary will follow up with those who were assigned activity in June and respond. A draft is needed by March 15.
- **Use of Gray Water in Cooling Systems** – Due to reduced priority (versus the shut-down-and-clean project), a work statement will not be issued at this time. However, Amanda is still looking for case histories where gray water is being used in cooling systems. If you come across any, please let her know.
- **Water-side Fouling Inside Smooth and Augmented Copper Alloy Condenser Tubes in Cooling Tower Water Applications RP-1205** – Hal Roth gave a brief update of this project sponsored by TC8.5. Projected completion date is May, 2004.

Other Research Topics –

- Impact of repeated chlorination on metal corrosion rates
- Use of ORP or other on-line methods to control dosing of corrosion inhibitors
- Volatile amine exposures in steam humidification

Membership Subcommittee – David Geary:

Membership continues to be in great shape, thanks to the efforts of Dave. We are allowed 18 voting members, and we are at 15.

Changes to the roster include:

- John Lane to become a corresponding member
- Bill Pearson to become a voting member
- John Dresty to become a corresponding member
- Amanda Meitz to become a Voting Member
- Hal Roth to become a Voting Member
- Pat Thomas will become a corresponding member
- Kerry Zimmerman to become a corresponding member

John Lane volunteered to serve as the CTI liaison.

Contact Dave Geary if you know anyone interested in becoming a member of TC3.6.

Old Business

It was confirmed that there is still interest in the short course on Legionella as discussed in the Cincinnati minutes:

“Prior to the meeting, David Geary had distributed a draft of a short course on Legionella. If approved, a Course Development Committee will be formed, and initial offering would most likely be in June, 2002 (Honolulu). We will need volunteers to serve as instructors. A motion for approval was accepted (14-0-0).”

Hal Roth was recognized for his efforts in locating a site for the Social night on Monday. Scott Mayes volunteered to find a site for the dinner in Honolulu.

New Business

- Earl Clark of TC8.2 (Centrifugal Chillers) asked TC3.6 to provide speakers for water treatment issues in their “Back-to-Basics” seminar in Honolulu. Howard Benisvy, Hal Roth, and Scott Mayes volunteered conditionally.
- Mark Hodgson initiated discussion regarding the title and scope of TC3.6. It was agreed that committee responsibilities should include potable applications and issues (Legionella, corrosion inhibition, etc.), and pre-treatment equipment (ion exchange, RO, etc.). Mark will write a revised scope and submit it to the committee for a vote.
- Mark Hodgson asked Howard Benisvy to assume the role of Committee Vice-Chairman.

Next Meeting

Tuesday, June 25 in Honolulu.

Program, Handbook, and Research Subcommittees – Sunday, June 23.

Social Night – Monday, June 24.

The meeting was adjourned at 2:50 PM.