



ASHRAE

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MEMBERS FIRST!

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### TECHNICAL ACTIVITIES COMMITTEE

As the new society year unfolds, TAC (Technical Activities Committee) is making progress toward its goals. TAC has implemented a new TC/TG/TRG roster procedure to facilitate the addition of corresponding members throughout the year so that willing volunteers from around the world have a positive experience when applying for membership on a TC/TG/TRG. This new procedure has received positive response from the Society's membership. TAC is also improving and automating the roster update workbook. Furthermore, TAC has reviewed and streamlined the TAC Manual Of Procedures and is developing a new TAC/TC Reference Manual to agree with the new approved Rules of the Board.

At the recent Tech Weekend, held in the newly renovated ASHRAE Headquarters, TAC selected the 2008-2009 recipient of the George B. Hightower Technical Achievement Award for volunteer service in the area of TC, TG and TRG activities, except for research and standards. TAC will forward its recommendation to the Honors and Awards Committee for final determination.

The TAC Special Assignments Coordinator is working with TC 9.5 to expedite development of a brochure that will educate consumers on selecting and maintaining residential HVAC systems in response to a PubEd Council referral and a Tech Council action item.

The TAC Liaison Coordinator is currently assessing the impact that the 2005 Handbook Workshop had on the 2008 S&E volume.

TRG 7.UFAD is reviewing and rewriting the ASHRAE Underfloor Air Distribution Design Guide to incorporate practical

In an effort to enhance the recognition, impact and interest in the ASHRAE Technical Program at the TC level, TAC leadership will initiate a series of meetings with the

leadership of the Conferences and Expositions Committee (CEC). The purpose of these meetings will be to discuss program initiatives and issues emanating from the TC's.

TRG 7.UFAD is reviewing and rewriting the ASHRAE Underfloor Air Distribution Design Guide to incorporate practical design, construction, and operational experiences that have become available since its original publication in 2003. The TRG aims to have a completed draft of the UFAD design guide for the Winter Meeting in Chicago.

TC 9.6 – Healthcare Facilities proposes to develop a new special publication design guide on quarantine (isolation) stations and an update to the ASHRAE HVAC Design Manual for Hospitals and Clinics. Both design guides are also expected to address the latest technical guidance on SARS, bird flu, and other airborne-transmitted diseases, which was first requested by ASHRAE members in a 2004 referral from the Hong Kong chapter.

TC 9.11 has begun work on a new design guide for clean spaces and will cover applications such as semiconductor & micro-electronics, aerospace, optical, pharmaceuticals & medical devices, healthcare & Bio-Tech facilities, food processing, and bulk chemicals. The first draft of the design guide is expected to be completed by June 2009. A call for volunteers to help with the design guide is now in process.

6.7, Solar Energy Utilization, was updated. The name of TC 6.6 was changed from Service Water Heating to Service Water Heating Systems.

*Bryan Becker, Chair*

### ENVIRONMENTAL HEALTH COMMITTEE (EHC)

The Environmental Health Committee gathered together in Atlanta at Tech Weekend to move forward on its 2008-2009 objectives as follows.

As envisioned in Vision 2020, Net Zero Energy Buildings (NZEBS) must comprise systems to provide safe water and air to at least the same extent as that which is acceptable today. However, "safe" building water and air has not been defined for the NZEB

ASHRAE Technology is for ASHRAE members. The **Members First!** newsletter is issued after each Technology Council meeting to provide highlights of ASHRAE technical activities and keep members informed. Our goal is to make the work of the technical side of ASHRAE open to all ASHRAE members. If you have technical questions for ASHRAE, please contact Steve Hammerling, Assistant Manager of Research and Technical Services, at 678 539-1158 or via email at [shammerling@ashrae.org](mailto:shammerling@ashrae.org).

Your feedback is welcome and encouraged! Please write to Tom Watson, Vice Chair, Technology Council at [tom.watson@mail.ashrae.org](mailto:tom.watson@mail.ashrae.org).



concept. There must be a benchmark established in order to ensure that Indoor Environmental Quality (IEQ) has not been degraded in the pursuit of more efficient buildings. The Environmental Health Committee (EHC) is no in the process of developing a quantitative description of unsafe building water and air including acceptable numerical ranges for known health hazards based on published references from various cognizant authorities in government and academe.

Objective 1 - By June 2009, a quantitative description of unsafe building water will be produced for use in the NZEB initiative to define the benchmark for claiming no degradation of safety in the indoor environment.

Objective 2 - By June 2009, a quantitative description of unsafe building air will be produced for use in the NZEB initiative to define the benchmark for claiming no degradation of safety in the indoor environment.

The EHC is also planning to establish a research project on the costs and benefits of ozone removal from outdoor supply air. The health effects of ozone in the indoor environment are emerging as one of the most important issues today

William McCoy, Chair

Update on the 2010-2015 Research Strategic Plan

As we noted in the Summer issue of *Members First*, ASHRAE's research priorities are guided by our Research Strategic Plan (RSP). The Research Advisory Panel (RAP) charged with developing the 2010-2015 Research Strategic Plan conducted a survey this summer to gather input from the membership. Almost 400 people responded, three-fourths from the U.S. and one-fourth from 28 other countries. Respondents included many chapter officers, members of technical committees and standards/guideline committees and members of Society committees and councils. The largest number of respondents hold positions in design/application, followed by research and management.

RAP is currently digesting this wealth of input. Initial analyses clearly indicate that issues related to energy and resources are members' highest priority for research funding. Full results will be posted on the ASHRAE website later this fall.

RAP will hold a forum at the Winter Meeting in Chicago to gather further input on strategic research needs.

Martha Hewitt, Chair

RESEARCH ADMINISTRATION COMMITTEE (RAC)

New Research Projects

ASHRAE research projects provide a steady stream of data and tools that help ASHRAE members achieve their goals. Two projects were approved for award at Technology Weekend in Atlanta. These are:

1365-RP, "Thermal Performance of Building Envelope Details for Mid- and High-Rise Buildings," awarded to the Morrison Hershfield Ltd. of Vancouver, B.C. Sponsored by TC4.4 Building Materials and Building Envelope Performance.

1475-RP, "Updating Heat and Moisture Production Rates of Modern Swine and Their Housing Systems," awarded to U.S. Meat Animal Research Center in Clay Center, NE. Iowa State University is a subcontractor on this project. Sponsored by TC 2.2, Plant and Animal Environment

Up to eleven new research projects are expected to be released for bid in late October 2008. At Technology Weekend RAC reviewed 18 new research ideas from the Technical Committees (TCs) that the TCs will develop into work statements.

STANDARDS

At Tech Weekend 2008 Standards Committee reported that the all the documents in the fall public review cycle were processed entirely with the online comment database. The feedback on the online comment database continues to be positive and staff is always asking for feedback on ways to improve the database.

Standards Committee (and subsequently the Board) approved the following standards committee documents for publication in Salt Lake City

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BSR/ASHRAE/IESNA Addenda m, s, t, u, and w to Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings

BSR/ASHRAE Addenda b and m to ANSI/ASHRAE Standard 135-2004, BACnet – A Data Communication Protocol for Building Automation and Control Networks

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### Standards Continued

Standards Committee approved (and subsequently the Board) a title, purpose, and scope for ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*. This TPS change will go out for public review as Addendum *au* in the late fall.

*Hugh Crowther, Chair*

### ASHRAE's Staff Returns To Headquarters

**ASHRAE** has returned home to its newly renovated Headquarters building, which now features a variety of sustainable design measures. To learn more about the project, including a list of partners in the renewal and photos of the renovated facility, go to <http://301.ashrae.biz/?c=29>.



## Engineering tomorrow...today 2009 ASHRAE Winter Conference

January 24-28

ASHRAE 09

CHICAGO, IL

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