

**MEMBERS FIRST!**

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. Your feedback is welcome and encouraged. Please write to Lynn Bellenger, Vice Chair, Technology Council at lbellenger@pathfinder.com.

STRATEGIC PLANNING DOCUMENTS

Within the past year, three documents that map the future direction for ASHRAE and Technology Council have been approved by the ASHRAE Board of Directors. The **Research Strategic Plan** was developed over a three year period and provides a clear focus for ASHRAE funded research. It centers on the concept of sustainability and outlines research goals for the next five years. **ASHRAE's Sustainability Roadmap** guides the Society's efforts in defining a leadership role in sustainability and identifies and quantifies ASHRAE's sustainability impacts, beginning with the process of setting goals and continuing through implementing strategies for improving those impacts in the years ahead. Finally, the **ASHRAE Strategic Plan**, adopted March 20, 2006, identifies four principal strategic directions that define where ASHRAE will focus its efforts and resources in the next several years, in addition to its commitment to ongoing programs and services. All documents can be found on the ASHRAE website.

TECHNOLOGY COUNCIL'S ROLE

Technology Council has accepted the leading role in implementing Direction 1 of the ASHRAE Strategic Plan, "ASHRAE will lead the advancement of sustainable building design and operations." Each of the 8 strategies under Direction 1 has been assigned a champion from Technology Council. The champions are working with the Tech Council

committees, Technical Committees (TCs), and Task Groups (TGs) to develop action plans for implementing these strategies.

RESEARCH ADMINISTRATION COMMITTEE

The Research Administration Committee (RAC) conducts and coordinates basic research and technical studies in the HVAC&R fields to benefit public welfare.

At the June meeting in Quebec City, RAC followed the new **ASHRAE Strategic Plan** in selecting and prioritizing projects. The **Research Strategic Plan**, discussed in the Last Newsletter issue and operative for the past year, is in complete agreement with the society plan. Both were reviewed (with strategic connections emphasized) with Technical Committee Research Subcommittee Chairmen at their traditional breakfast meeting on Monday, June 26. 20 Research Topic Acceptance Requests (RTARs) were reviewed, and 13 were accepted for preparation of Work Statements – all in keeping with the Strategic Plan. Additionally, four (4) Work Statements were approved for possible bids in the fall of 2006.

One of the items RAC prepared during the June meeting was a **Research Flow Chart** to help those members in **Research Promotion** describe how ASHRAE research flows from the RTAR or Unsolicited Research Proposal to a completed project, results of which should appear in Handbooks, Standards, Guidelines, and/or Codes. The flow chart, which will be improved as suggestions are received from members, is shown on the next page.

RESEARCH FLOW CHART



RESEARCH

Idea For Research to Satisfy a Society Need

Unsolicited Research Proposal (URP)

Research Topic Acceptance Request (RTAR)

- Developed by Technical Committees
- Verify topic contributes to the ASHRAE Strategic Plan

Work Statement (WS)

- High priority if solidly supports Strategic Research Plan
- High priority if high estimated value to ASHRAE
- High priority if cost-shared to leverage ASHRAE \$

Solicitation of Bids if Funding Available

- Competition maximizes value to ASHRAE

Evaluation of Proposals, Selection & Award

- Selection based on best value to ASHRAE

Technical & Financial Project Monitoring

- Technical: ASHRAE Technical Committee (TC) or Task Group (TG) expertise
- Financial: ASHRAE's Manager of Research and Technical Services (MORTS)

Products of Research

- Improved handbooks, standards, guidelines, codes
- Special publications, software, web-based tools
- Papers and journal articles that advance HVAC&R science and technology

About 5% of Research Budget Funds Innovative Projects Originating From Outside the TC Process

Valuable Projects Exceed Available Funding

ASHRAE Research Is the Technical Underpinning of ASHRAE's Handbooks, Standards, Guidelines, and Codes



TECHNICAL ACTIVITIES COMMITTEE

Technical Activities Committee (TAC) coordinates HVAC&R technical activities, including appointment, development and oversight of technical committees, task groups and technical resource groups.

The Technical Activities Committee will focus on coordinating technical activities related to the Society's new Strategic Plan. Three project coordinators have been assigned to oversee these activities. A new Technical Research Group "TRG4. Sustainable Building Guidance and Metrics" has been created to develop design guidance, performance metrics and rating systems to integrate indoor environmental quality (IEQ), energy efficiency and other aspects of sustainable building performance. They will collaborate with other organizations to integrate HVAC&R systems with other building systems to enhance the effectiveness of Total Building Design and Integrated Practice. The TRG coordinator has begun preparing a roster. Interested parties should contact MORTS@ASHRAE.net for further details.

Section 4.0 "Load Calculations and Energy Requirements" and Section 7.0 "Building Performance" met in Quebec City to develop a unified conceptual path for activities that support integrated building design. With support from TAC and the Handbook Committee, they will be planning design guides and electronic navigational tools closely aligned with the new Strategic Plan. Further development of these ideas in support of the Strategic Plan is planned for the upcoming society year.

To become more familiar with the work and structure of other TC's visit ASHRAE.ORG. Click "Technical Committees" under the "Technology & Standards" drop down list. There you can find the TC Scopes, their web pages and the E-mail Alias List. Using the Alias List, you can contact the chairs and section heads of all of the TC's, TG's TRG's.

STANDARDS COMMITTEE

Standards Committee is responsible for the selection, development, revision and preparation of HVAC&R code language documents, standards and guidelines so that they may be considered for adoption by the Board of Directors. In this capacity, the Standards Committee coordinates the work of Standard Project Committees

and Guideline Project Committees that are responsible for the technical content of codes, standards and guidelines. The Standards Committee also cooperates with other organizations in the development, preparation and adoption of codes, standards and guidelines in related areas.

In Quebec City the Standards Committee approved publication of 18 addenda for the following continuous maintenance standards 15, 34, 62.1, 62.2, 90.1, 140 and publication of revisions or reaffirmations of the following 9 standards 20, 63.2 70, 130, 146, 158.2.

The project committee for BSR/ASHRAE/USGBC/IESNA Standard 189P, Standard for the Design of High Performance Green Buildings Except Low-Rise Residential Buildings had its first meeting in Quebec City. The chair of the SPC received 46 membership applications and initial membership is currently being developed. The project committee is proceeding on a fast track in the development of this standard. (*Refer to the 2005-06 Newsletter 3 for more information on 189P*)

A draft of Guideline 29P, Guideline for Risk Management of Public Health and Safety in Buildings, has been approved for publication public review.

The 2006 Supplements to the following standards have been published and are now available for free on the ASHRAE website:

- ANSI/ASHRAE Standard 15-2004, Safety Standard for Refrigeration Systems
- ANSI/ASHRAE Standard 34-2004, Designation and Safety Classification of Refrigerants
- ANSI/ASHRAE Standard 62.1-2004 Ventilation for Acceptable Indoor Air Quality
- ANSI/ASHRAE Standard 62.2-2004, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings
- ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low Rise Residential Buildings
- ANSI/ASHRAE Standard 90.2-2004, Energy Efficient Design of Low-Rise Residential Buildings

The second public review for proposed standard BSR/ASHRAE/ACCA Standard 183P, Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings, was completed on May 1, 2006. Responses to commenters are now being prepared.

REFRIGERATION COMMITTEE

Refrigeration Committee encourages the advancement of refrigeration technology and its application.

Refrigeration Committee would like to remind all ASHRAE chapters that the deadline for the Milton W. Garland Commemorative Refrigeration Award for Project Excellence and the Comfort Cooling Award for Project Excellence is November 1st. The awards are given to promote innovation in the use of refrigeration machinery for non-human comfort and human comfort applications, respectively.

The Milton W. Garland Commemorative Refrigeration Award recognizes a non-comfort cooling refrigeration application which highlights innovation and/or new technologies.

The Milton W. Garland award is generally given to submissions on food processing and preservation as well as industrial applications. It could also apply to refrigeration used in manufacturing processes, life support in extreme environments, recreational

The Refrigeration Comfort Cooling Award for Project Excellence recognizes a comfort cooling refrigeration application which highlights innovation and/or new technologies.

facilities, or other non-comfort cooling applications.

The Comfort Cooling award can be given to any mechanically produced cooling utilization project having a central plant capacity of 300 tons or more for comfort cooling applications.

Information on submitting for both of these awards can be found on both the Refrigeration Committee and CTTC websites on www.ashrae.org.

ENVIRONMENTAL HEALTH COMMITTEE

Environmental Health Committee coordinates ASHRAE activities in the areas of environmental health and indoor air quality.

(continued next column)

Plain Language, Engineer-Friendly Environmental Health Information

EHC's objectives for the coming year are Members First!-oriented. EHC will focus on plain language, engineer-friendly information on environmental health issues of interest to ASHRAE members. A new front end will give ASHRAE engineers far greater access to the content of EHC's Chapter 9 of the ASHRAE Fundamentals Handbook, and a new, plain language "engineer's guide to environmental health" will be developed. Finally, EHC is planning a full complement of seminars and forums at ASHRAE Winter and Annual meetings to inform members on emerging news and tools that address engineering environmental health concerns in buildings.

Sustainable Buildings — EHC will create a framework for identification and analysis of environmental health consequences related to "sustainable buildings." EHC will identify emerging issues in sustainable building design related to the growing knowledge about and interest in climate change and the resulting impacts on ecological and human health as well as other environmental impacts with particular emphasis on HVAC and R design, construction, and operation.

Ventilation and Health — Finally, EHC's research project on the relationship between ventilation rates and health will conduct its expert workshop with 14 of the world's leading authorities on ventilation and health including 3 current or former chairs of SSPC62 and several international authorities on the impacts of buildings on occupant health.

