Dear ASHRAE Members,

Thank you for your support to our chapter. The Nashville Chapter is blessed with great members who, through involvement, financial support, or a volunteerism standpoint, have helped build a great local organization that feeds and supports a larger cause and society.

ASHRAE was founded in 1894 to be a nonprofit technical engineering society. Their mission is to advance HVAC to serve humanity and promote a sustainable world through research, standards, writing, publishing and continuing education. ASHRAE’s expertise includes energy efficiency, indoor air quality, and the writing of codes and standards. They have created 123 standards and guidelines that establish recommended design and operation practice for the world we live in and the backbone of our livelihood.

Much of this expertise comes from the 140 research projects supported through ASHRAE’s RP program. The program has a combined value of more than $15 million; and, these dollars come from your support. Thank you for helping further this unique organization through your continued financial support as we begin our Research Promotion fundraising campaign.

Sincerely,

-Matt Fruetel
**Gordon V.R. Holness**, P.E. is Chairman Emeritus of Albert Kahn Associates, Inc. Architects and Engineers, in Detroit. He retired from the firm in 2001 having served for over 32 years including roles as Chief Mechanical Engineer, Treasurer, Board Member, President and CEO. He currently provides Consulting Engineering Services and serves as an expert witness for design and construction issues. He is a Professional Engineer, registered in 42 States and 5 Provinces. He is a chartered engineer in the United Kingdom.

He has over 50 years’ experience in design and construction, specifically in mechanical engineering services for industrial, health care and institutional buildings in England, Canada and the United States.

He joined ASHRAE in 1965. He serves as Chair of the Advocacy Committee, and Chair of Members Council. He has won 12 Regional and National Awards for Technology and Energy Conservation. He served as President of the Society for 2009-10. Named a Fellow of the Society in 1991, he has received the Distinguished Service Award and the Exceptional Service Award.

### Upcoming Chapter Event Schedule for 2011-2012

**ASHRAE Upcoming Events:**

- **April 10** – Gordon Holness – ASHRAE Standard 100
- **April 24** – ASHRAE Webcast – Dedicated Outdoor Air Systems (at offices of SSR)
- **May 8** – Ron Jarnigan, President, ASHRAE – Sustaining ASHRAE Through Leadership

The meetings are held at the Tennessee Engineering Center at 11:30 AM to 1:00 PM, except as noted. The Tennessee Engineering Center is located in the Adventure Science Center at, 800 Fort Negley Blvd., Nashville, TN 37203. Please RSVP to these programs. The meal cost is included in your yearly dues, but we still have to order the correct amount of food for each meeting. The monthly newsletter will give more details concerning these meetings.

**Costs:**

- Members who have PAID local chapter dues: Included
- Members who have NOT PAID local chapter dues: $15.00
- Guests: $15.00
Nashville ASHRAE will hold a free webcast seminar Dedicated Outdoor Air Systems – A Path to Balancing Energy and IEQ,” on Tuesday April 24th from 12:00 -3:30 p.m. This event will be held at the offices of SSR. Much like our monthly meetings, lunch will be provided free to ASHRAE members and for $15 for guests. There will be no charge for the seminar itself, and 3 PDHs will be given for attendance. Registration RSVP will be conducted via the ASHRAE NASHVILLE website at https://sites.google.com/site/ashraenashville/home. Our local event will be shown via the ASHRAE archives. If you can’t make the local event, you may register directly through ASHRAE. See details for that in the official press release below.

Where: Offices of SSR, 2995 Sidco Drive, Nashville TN

When: Tuesday, April 24th, 12:00 – 3:30 Lunch will be served at 12, seminar beginning at 12:30

Please join us!

ASHRAE Press Release:

ATLANTA – While conventional HVAC systems mix fresh outdoor air with the return air in one unit, dedicated outdoor air systems use standard equipment to condition fresh air separately before it enters the building. This break from tradition is quickly becoming a proven tool for utilizing energy more efficiently, and can provide a cost savings to the consumer.

Registration for ASHRAE’s upcoming webcast, “Dedicated Outdoor Air Systems – A Path to Balancing Energy and IEQ,” opens today, March 19. The webcast focuses on the departure from conventional HVAC systems and takes place April 19, 2012, from 1 – 4 p.m. EDT.

“Based on growing popularity the chosen topic for the 2012 webcast is Dedicated Outdoor Air Systems (DOAS),” Andy Cochrane, chair of the ASHRAE committee overseeing the Webcast, said. “This webcast will describe the role of DOAS in the overall HVAC system, and discuss various DOAS equipment configurations and applications. From understanding DOAS system characteristics, to avoiding pitfalls and challenges unique to DOAS applications, the webcast is a must see for discerning owners and designers alike.”

The webcast presenters are Tim McGinn, P.E., principal, DIALOG; Stanley Mumma, Ph.D., P.E., Professor Emeritus of Architectural Engineering, Pennsylvania State University; and John Murphy, applications engineer, Trane.

Three Professional Development Hours (PDHs) or three AIA Learning Units (LUs) are available.

The live program will be archived online until May 3, 2012, for viewers who are unable to participate on April 19. Registration is required to view the archived program. A DVD of the webcast will also be available for purchase.

To register, or for more information, visit www.ashrae.org/doaswebcast or call 678-539-1200 or email ashrae-webcast@ashrae.org.

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ATLANTA—In a city with deep historical roots, ASHRAE will convene in San Antonio, Texas, to not only “remember the Alamo,” but look toward a greener future. The 2012 ASHRAE Annual Conference focuses on everything from the basics of HVAC maintenance to integrated building design.

As members work together to shape tomorrow’s built environment, the influences of San Antonio’s past—Old Mexico, the Wild West and the Deep South—serve as a reminder of the Society’s significant role in the city’s hot and dusty past, as well as the Society’s position as part of a future of sustainability.

Join ASHRAE in this historic city; registration is now open for ASHRAE’s 2012 Annual Conference, June 23-27.


“Interoperability of Smart Building Systems and Smart Grid” is the topic of the Technical Plenary, presented by Lawrence Jones, Ph.D., Alstom Grid Inc., Washington, D.C., on Sunday, June 24.

Also, an Integrated Building Controls “mini-conference” addresses the extension of building controls from just mechanical systems to lighting, water consumption, security and other building systems, working toward the goal of “intelligent buildings.” Sessions related to this topic are scheduled on Sunday and Monday.

The technical program begins Sunday, June 24, and ends Wednesday, June 27, with all sessions at the Henry B. Gonzalez Convention Center. Complete program details are available at www.ashrae.org/sanantonio. The entire technical program is approved for PDHs, and the majority of sessions are also approved for NY PDHs, AIA LUs and LEED AP credits.

The ASHRAE Learning Institute offers eight instructor-led training opportunities. Participants may choose from two full-day and six half-day courses to stay current on HVAC trends, including a new offering on understanding ASHRAE Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings.

The Conference keynote speaker is Ryan Dorsey, the Gen Y Guy®. Dorsey will focus on “Crossing the Generational Divide,” explaining how four generations are currently working side-by-side in the workplace and the strengths, weaknesses and different perspectives of each. The Plenary session takes place Saturday, June 23 at Grand Hyatt San Antonio.

ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours at the Annual Conference include the SAWS Chiller Plant and the Blue Wing Solar Farm.

The ASHRAE Annual Conference takes place June 23-27. Register before April 20 for early bird rates. The Grand Hyatt San Antonio will serve as the headquarters hotel. Visit www.ashrae.org/sanantonio for more information.

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ATLANTA – A proposed change to the ventilation rate procedure in ASHRAE’s indoor air quality standard is open for review after changes were made based on public input last year.


The ventilation rate procedure provides a prescriptive method for determining minimum ventilation requirements. It accounts for pollutant sources from both the building and its occupants, and allows the designer to account for the efficiency of different ventilation systems when delivering outdoor air to the breathing zone.

Proposed addendum f was first released for public comment in September 2011 after some users of Standard 62.1 indicated the ventilation rate procedure was “too complicated,” according to Standard 62.1 chair Roger Hedrick. He said the 62.1 committee agreed that application of the multiple-zone recirculating system equations described in Section 6.2.5 and Appendix A can be complex.

“When designing multiple zone recirculating ventilation systems, Table 6-3 provides a default value of Ventilation Efficiency (Ev) based on the largest value of the zone primary (Zp) outdoor air fraction, for all the zones served by the system,” he said. “However, if Max (Zp) exceeds 0.55, then Appendix A must be used to design the system outdoor airflow. Addendum f attempts to simplify the design process by providing a simplified default approach for cases with Max (Zp) greater than 0.55.”

The earlier review draft set the default value of the zone primary outdoor air fraction based on a default minimum zone primary airflow set as 30 percent of the zone design primary airflow.

“The public review comments pointed out that this formulation did not work mathematically under certain conditions,” Hedrick said. “This new public review version instead simply allows Ev to be set to 0.6, unless a higher value is provided by Table 6-3 or by using Appendix A. Use of a relatively low value of Ev will result in higher outdoor airflow rates, but using the default will simplify the system design process.”

Also open for review is addendum i, which would add limits for low humidity. Recent studies have shown that excessively low humidity may result in unacceptable indoor air quality. The Standard 62.1 committee is interested in the appropriateness of the relative humidity limit and the climate zones where the requirement applies. The addendum is open for an advisory public review, meaning comments received allow for constructive input and need not be resolved or formally acted on by the project committee.

In addition to addenda f and i, three additional addenda are open for public review from March 23 until April 22. For more information, visit www.ashrae.org/publicreviews. They are:

- Addendum h – Table 6-1, includes ventilation rates for “Sports arena (play area)” and “Gym, stadium (play area).” Both space types have ventilation rates based on floor area only, the per person rate is zero. Users of the standard have expressed interest in applying demand controlled ventilation to these space types, which is effectively prohibited by the lack of a per person component to the ventilation rate. This proposed addendum replaces both of these space types with “Gym, Sports Arena (play area),” with Rp = 20 cfm/person and Ra = 0.06 cfm/ft² and assigns this new space type with an air class of 2 rather than class 1 from the first publication public review version.
- Addendum k adds an exception to the recirculation limits on Class 4 exhaust airstreams from laboratory hoods which would allow use of heat wheel energy recovery in some cases. The exception defines several criteria which the airstream must meet before such heat recovery can be used, and the heat recovery system must limit recirculation airflow to less than 0.5 percent of the outdoor air intake flow.
- Addendum l adds a refrigerated warehouse space type to Table 6-1, providing revised ventilation rates for these spaces. These rates include a “People Outdoor Air Rate, Rp” which will require ventilation during periods of expected occupancy, but do not include an “Area Outdoor Air Rate, Ra” which will allow the ventilation rate to be zero for refrigerated warehouses with no occupants.

In addition, addendum j is open for public review from March 23 until May 7. The proposed addendum would add requirements to the Indoor Air Quality Procedure (IAQP) for determining minimum ventilation rates which require consideration of the combined effects of multiple contaminants of concern on individual organ systems. This “additive” effect is already implicit in the Ventilation Rate Procedure. This proposed change is intended to improve the IAQP by requiring consideration of these additive effects that are well established in the literature for many organ systems, according to Hedrick.