ASHRAE MONITOR

www.hamptonroads.ashraechapters.org

The Discussion Topics:

April 3 "Ground Source Heat Pumps"

Mission Statement

"To advance the arts and sciences of heating, ventilation, air conditioning, and refrigerating to serve humanity and promote a sustainable world."

In this Issue:

P.2 The President's Pen P.3 **Pig Roast Sponsors** P.4: **Baseball Sponsors** P.5: **GSHP** Meeting P.6: **DOAS** Meeting P.7: Spring Golf Outing P.8-16: ASHRAE Press Release P.17: Meeting Schedule

Topic: Ground Source Heat Pumps – This presentation will engage the audience in good practices for designing ground source heat pumps as well as avoiding mistakes commonly made during the design phase.

Details on Page 5

APRIL 19, ASHRAE WEBCAST "Dedicated Outdoor Air Systems"

A Path to Balancing Energy and IEQ Earn up to 3 PDH's! .

Topic: Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

Details on Page 6

1



Publish an Article about Your Project

Do you have a unique, challenging, or otherwise interesting project that you'd like to share? If so, please send a write-up and photos (if applicable) to rainsley@enviromechanicalsale s.com

. We will include one article per month in the ASHRAE Monitor. Preference will be given to local projects exhibiting sustainable design/construction practices.

President - Rob Ainsley - RAinsley@enviromechanicalsales.com President Elect - Paul Butler - PaulB@aceshvac.com Vice President - Richard Roberts- Richard.w.Roberts@jci.com Secretary - Daniel Johnston - Daniel_Johnston@siemens.com Treasurer - Scott Almond - scott@mail.ashrae.org

Chapter cannot act on behalf of the Society.

From the Presidents Pen

ASHRAE MONITOR

Committee Participation is Needed and Welcomed

If anyone has an interest in becoming involved with ASHRAE we welcome people to serve in various ways. Please feel free to contact any of the board members to get more information. You can also visit the ASHRAE web site to find out more about getting involved. It is a great way to plug in to your local community of peers and grow personally and professionally. For those of you who have served before, we welcome your participation also. Every effort helps to enrich our local community.

Your Feedback Matters

Are there things that you would like to see happening in ASHRAE? Please feel free to contact us with suggestions for improvement and with ideas on how you would like to see the local ASHRAE chapter change or improve. We welcome and value your feedback. Again, you can contact us utilizing the email addresses on Page 1.

Thanks!

From the President's Pen:

Dear Members,

As a volunteer, grass roots organization, the Hampton Roads Chapter works hard to keep you informed on the industry's technical standards and technologies. We do so through conduits such as our monthly Chapter Technical Meetings, Research Promotion Tide's Baseball Event, E4K Pig and Oyster Roast Event, Scholarship Golf Tournament, Student Chapter Activities, ASHRAE Webcasts, and Newsletters. This month's ASHRAE Monitor incorporates a "new segment" which includes (3) Society Press Releases:

- Spring 2012 ASHRAE Society Updates
- Standard 62.1-2010: ASHRAE is seeking industry input on Standard 62.1's ventilation rate procedure.
- Standard 189.1: Dr. Dru Crawley gave our membership an excellent presentation on this topic last month and now Standard 189.1 is deemed as a compliance option for IGCC.

Continuing with the "keeping up with the new" trend, you may have already noticed the ASHRAE logo change in our publications or have seen the new logo if you attended the 2012 ASHRAE Winter Conference. ASHRAE has incorporated the new motto, "Shaping Tomorrow's Built Environment Today" and created the new logo to better align with the society's mission and its position as the global leader in the HVAC&R industry for standards, research and education. So check out our new ASHRAE Hampton Roads Chapter logo!

We only have two months left (insert sad or happy face here) in our 2011/2012 season and we have a lot going on. Charles E. Elks with Mechanical Equipment Sales, Inc. will be presenting on "Ground Source Heat Pumps" next Tuesday, April 3rd at Colonial Webb's new conference center. We are also hosting lunch and webcasting ASH-RAE's "Dedicated Outdoor Air Systems" presentation on Thursday, April 19th at ODU where you can earn up to 3 Professional Development Hours (Event details provided later in the newsletter).

Penn State University's Dr. Bill Bahnfleth will be closing out our season's Distinguished Lecturer's Series with a presentation on the ASH-RAE Building Energy Labeling program which is a growing trend worldwide. We are also partnering with IFMA again this year for our 2012 Spring Student Scholarship Golf Tournament at Sleepy Hole on Thursday, May 17th. Get your company sponsored and teams signed up as soon as possible!

So as you can see, we have great things happening in our community and local chapter. Our membership is growing and our events are becoming more and more popular (almost facebook status worthy...we're working on this). As our season comes to an end, some of our officers/committee chairs will be leaving and we need you to volunteer and keep our chapter strong!

Thank you and see you all at the next meeting!

Rob Ainsley - Hampton Roads Chapter President

Tuesday, April 3, 2012

"Ground Source Heat Pumps"



Speaker – Charles E. Elks, Jr. is President and Owner of Mechanical Equipment Sales, Inc. and has been involved in the ground source heat pump industry for over 35 years. He grew up in Norfolk, VA where he graduated from Maury High School and received degrees from VPI & SU. Charles is a registered Professional Engineer in the state of Virginia as well as a member several professional societies including, ASHRAE, IG-SHPA (International Ground Source Heat Pump Association), AEE, and GeoExchange. Charles is also a certified Geothermal Designer and Geothermal Conductivity Testing Engineer. His professional experience includes working at Newport News Shipyard, NASA Huntsville AL, Thayer and Wallace Consulting Engineers, Trane Company, Air Conditioning Sales Co., James O. Nixon Company, and Virginia Air Balance.

Topic: Ground Source Heat Pumps – This presentation will engage the audience in good practices for designing ground source heat pumps as well as avoiding mistakes commonly made during the design phase.

Earn 1 hour of Professional Development Hours at this meeting.

*****Please note venue change.

Date: ***TUESDAY** April 3, 2012 Location: Colonial Webb's Conference Room - 3719 E. Virginia Beach Blvd. Norfolk Parking and Conference Room Entrance is located on the backside of the building. Please car pool as parking is limited. Time: Meet and Greet/Lunch begins at 11:45am and Session begins at 12:00 pm Payment: Members = \$20.00 Non-Members = \$25.00 Students = \$10.00 For reservations go to <u>http://hamptonroads.ashraechapters.org/</u>

Thursday, April 19, 2012

"ASHRAE WEBCAST – Dedicated Outdoor Air Systems"



WEBCAST – "DOAS – A Path to Balancing Energy and IEQ" Earn up to 3 PDH's by attending the Hampton Roads Chapter of ASHRAE's webcast hosted at Old Dominion University's career center. Location and parking pass details are listed below.

We will provide lunch and chapter announcements at 12:30 and the Webcast will start at 1:00 pm and finish at 4:00 pm.

Topic: Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

The webcast program has been approved for three (3) continuing education credits by the American Institute of Architects (AIA) and the US Green Building Council (USGBC).

Time: Lunch begins at 12:30 pm and Webcast 1:00pm-4:00pm

Location: ODU's Continuing Education Center Conference Room – 4111 Monarch Way – Suite 106Norfolk, VA 23508 Parking in Constant Convocation Parking Garage 43rd Street Parking passes will be emailed closer to the event

Please RSVP by Wednesday, April 18th ****Limit to first 25 people

Payment: Members = \$20.00 Non-Members = \$25.00 Students = \$10.00

For reservations go to http://hamptonroads.ashraechapters.org/

Tuesday, May 8, 2012

"ASHRAE's Building Energy Labeling Program"



Distinguished Lecturer – William Bahnfleth is Professor and Director of the Indoor Environment Center in the Department of Architectural Engineering at Penn State University, where he has been employed since 1994. Previously, he was a Senior Consultant for ZBA, Inc. in Cincinnati, OH and a Principal Investigator at the U.S. Army Construction Engineering Research Laboratory in Champaign, IL. He holds BS, MS, and PhD degrees in Mechanical Engineering from the University of Illinois, where he also earned an undergraduate degree in music (pipe organ performance), and is a registered professional engineer.

At Penn State, Dr. Bahnfleth teaches undergraduate courses in HVAC fundamentals and controls and graduate courses in chilled water systems, hot water and steam systems, and indoor air quality. His research interests cover a wide variety of indoor environmental control topics, including chilled water pumping systems, stratified thermal energy storage, protection of building occupants from indoor bioaerosol releases, ultraviolet germicidal irradiation systems, and others

Dr. Bahnfleth has served ASHRAE in a variety of capacities, including Student Branch Advisor, Chapter Governor, Technical Committee and Standing Committee Chair, and as a Director-at-Large and is currently Society Vice President. He is the recipient of a 1st place ASHRAE Technology Award, Transactions Paper Award, and Distinguished Service and Exceptional Service Awards.

Topic: ASHRAE's Building Energy Labeling Program – Whether voluntary or mandatory, the rating of the energy use and indoor environmental quality of buildings is a growing trend worldwide. This presentation will provide an overview of the bEQ program, describe its relationship to other building certification programs in the US and elsewhere, identify the potential benefits of certification, and summarize the current state of implementation of the program and plans for the future.

Earn 1 hour of Professional Development Hours at this meeting.

****Please note venue change. Date: ***TUESDAY** May 8, 2012 Location: ITT TECH Auditorium, 863 Glenrock Road, Norfolk, VA 23502

Time: Meet and Greet/Lunch at 11:45am and Tech Session begins at 12:00 pm

Payment: Members = \$20.00 Non-Members = \$25.00 Students = \$10.00

For reservations go to http://hamptonroads.ashraechapters.org/



2012 Spring Golf Outing



All players will get a goodie bag and there will be prizes for Longest Drive, Closet to the Pin, Best Score in 2 Flights, and Dinner

Please come out and support the annual ASHRAE / IFMA Scholarship Golf Outing All proceeds go to support ASHRAE Scholarships and IFMA Charities!

Sleepy Hole Golf Course 4700 Sleepy Hole Road Suffolk, Virginia 23435 www.sleepyholegolfcourse.com Phone: 757-538-4100

Wednesday, May 16 - Noon Registration - 1:00 PM Shotgun (Rain Date – May 24)

Captains Choice - Dinner and awards ceremony following completion of play.

SPONSORSHIP	INCLUDES	PRICE	CHOICE
Dinner Sponsor	Banner at dinner, hole sign Role in distributing awards, Foursome	\$1,500.00	
Beverage Cart	Sponsor the beverage cart with Your firms sign attached, 2 golfers	500.00	
Hole-In-One Sponsor	One Only! Sponsor this Contest	500.00	
Gold Hole Sponsor	Longest Drive or Closet to Pin Opportunity to Market on Tee With Contest/Raffle/Refreshments, 2 golfers	400.00	
Hole Sponsor	Your Company's sign on Hole	150.00	
Golf Sponsor	One foursome	320.00	
Individual Sponsor	One Golfer	80.00	
Good Luck Sponsor	Provide Raffle/Goodie Bag Gift	Donation	

*All Sponsors at or above the 500.00 level get logos added to all communications to members thru May. All Sponsors will be recognized during the awards banquet.

Payment Method: () Invoice () Check	TOTAL	\$
Company:		
Contact Name:	E-Mail :	
Phone:	Fax # :	
Player #1	Player #2	
Player #3	Player #4	

Please complete and return this form along with your payment to:

ASHRAE MEMBERS

ASHRAE Golf c/o Paul Butler 105 E. Street, Suite 300, Hampton, VA 23661 Ph: 757.896.0650 Fx: 757.896.0696 Email: paulb@aceshvac.com IFMA MEMBERS

Golf IFMA Hampton Roads PO Box 68639 Virginia Beach, VA 23471 Ph: 757.313.7400 Fx: 757.497.1895 email: <u>ifmahr@aol.com</u>

Member News

Welcome New Members!

MEMBERS:

Thomas Adams John Banschenbach **Edward Bennett** Antwain Chatman, Sr **Daniel Richard Crosby** Michael Gelardi Guy Jeffrey Hall Hugh Matt Hinson Tom Leitch J David Loewus John T. McLaughlin, PE Richard A O'Berry Mike Pfeil Patrick Propst, PE Kraig Sarver Charles Andrew Slye, Jr. William W Warwick IV

STUDENTS:

Joshua D Buchanan Robert Browning Daniel Broznak John B Edelin Stephen Germano Richard Hartman, III Eric Keen Karl Meister Dillon Tinsley Hung Duc Vien Nathaniel L Whitlow Zachary A Wissen Thomas G Work

Employment Opportunities

Hampton Roads ASHRAE will publish employment opportunities in the Newsletter at a cost of \$50/month. The Newsletter is distributed each month to approximately 250 ASHRAE Members. Please contact: **Daniel_Johnston@siemens.com** to have employment opportunities included in the Newsletter

SIEMENS—CONTROL SYSTEMS SALES

Siemens is searching for a experienced sales person with demonstrated success calling on general contractors, mechanical contractors and mechanical engineering firms to support our Building Automation Division of our Richmond Branch. This position will be selling control systems for new construction and renovations through the contracting tier. This is an outstanding opportunity to join the world's leading provider of safe, secure and energy efficient solutions for buildings. If interested, contact Mita Patel at (847) 941-6403 or <u>mita.patel@siemens.com</u>. To learn more about Siemens, please visit: <u>www.usa.siemens.com</u>.

ASHRAE Society Updates

Spring 2012



Do you have questions that we can answer in the next ASHRAE Society Update? Send an email to <u>kfulcher@ashrae.org</u> and your question will be forwarded on to staff.

New Changes to Members Council

During the 2011 fall meeting in Atlanta, a motion was approved to remove the Director and Regional Chairs (DRCs) as members of Members Council and to have them sit on the Board of Directors only. The DRCs will be replaced by a new position from each region called the Region Members Council Representative. Pending approval by the membership for an ASHRAE Bylaws change, this will become effective July 1, 2013.

New Insurance Coverage for Chapters

The Manual for Chapter Operations (MCO), Section 4.6 was updated to include a section for ASHRAE Chapter Event Insurance. This coverage is provided at the chapter's expense to cover sporting events such as racing, skiing, firearms, boating, mechanical bulls and other activities. See the MCO for full details or visit the ASHRAE website <u>http://www.ashrae.org/society-</u> groups/chapters/Manual-for-Chapter-Operations and click on the link under "MCO Bookmarked Sections and Appendices."

New Member Benefit

Beginning July 1, 2011, the decision was made to provide a complimentary 12-month subscription to ASHRAE Handbook Online to all new Members and Associates with an election date of July 1, 2011 and onward, since they will not receive their print or CD Handbook until June, 2012. The new members and associates will receive an email message with instructions on how to access their complimentary Handbook Online subscription. This is a one-time benefit for new members, and at the end of their subscription, they will be prompted to renew the Handbook Online at the \$49 member rate.

Two chapter Resources are available online:

Centralized Training for MP:

http://www.ashrae.org/society-

groups/committees/membership-promotion-centralizedtraining

Membership Promotion Blog

Visit our blog for training and resources - provide feedback as well! http://ashraemptraining.wordpress.com/

Airmail Only \$10 (USD)

Members outside the United States will be happy to learn Airmail delivery of the ASHRAE Journal is now only \$10. ASHRAE encourages all members outside the U.S. to select this option on their membership renewal to ensure faster delivery of the industry's leading magazine, ASHRAE Journal. Click here to renew your membership.



ASHRAE Society Updates

Spring 2012



Leadership U participants at the Chicago Winter meeting.

Leadership U – San Antonio

Have you ever wondered what ASHRAE Officers do at the ASHRAE Winter & Annual Conferences? Here is your chance to find out! Through Leadership U (offered by the YEA Institute), a handful of YEA members are selected for each conference to be matched up with Society Officers and participate in all of their events and board meetings, including social activities. Leadership U not only allows you to experience a conference like an Officer, but it is also a great opportunity to network and form connections with those active in ASHRAE.

If selected to participate in Leadership U, the costs of attending the Conference (transportation, lodging and registration) will be covered by ASHRAE. In addition, those selected will document their experiences and share them with the YEA Committee, their chapter and their region.

Submit your <u>application</u> today! All applications must be received by the close of business **April 16, 2012**. To learn more about this opportunity or if you have any questions, visit <u>www.ashrae.org/yea</u>.

HVAC Design Essentials Workshop Scholarship

Presented by the ASHRAE Learning Institute, the threeday HVAC Design Essentials Workshop allows attendees to focus on both the fundamental and technical aspects of HVAC design in commercial buildings, providing practical strategies for HVAC designers and others involved in delivery of HVAC services. The next HVAC Design Essential Workshop will be held May 21-23, 2012 at ASHRAE Headquarters, Foundation Learning Center.

To encourage attendance by young professional ASHRAE members, the YEA Institute offers one full scholarship for attendance to the HVAC Design Essentials Workshop (Level I of the workshop only). The full cost of registration to Level I of the workshop will be covered by ASHRAE.

If you have an interest in attending this workshop, this <u>scholarship</u> is the perfect opportunity for you. All <u>applications</u> must be received by the close of business **April 9, 2012**.

RP Chairs- Visit the RP Blog

Messages to donors, non-donors, reminders, graphics, and articles about Research are available at the RP blog (http://ashraerp.wordpress.com/)

CRCS Set For Spring 2012

Region VI - May 3 - 6

Minnesota Minneapolis, MN

Visit the website -

http://ashrae6.blogspot.com/

Region VIII - April 26 – 28

Northeastern Oklahoma Tulsa, OK

Visit the website http://region8.ashraeregions.org/crc.htm

Region XI - May 10 - 12

Manitoba Winnipeg, MB

Visit the website-

http://region11.ashraeregions.org/

Please contact Vickie Grant at ASHRAE Headquarters for questions or to request more information about CRCs.

ASHRAE Society Updates

Spring 2012

Registration Open for ASHRAE Dedicated Outdoor Air Systems Webcast!

Registration is now open at www.ashrae.org/doaswebcast for the April 19, 2012 Webcast, "Dedicated Outdoor Air Systems – A Path to Balancing Energy and IEQ." This free webcast is being brought to you by ASHRAE's Chapter Technology Transfer Committee with support from Valent Air Management Systems, Rotor Source, Inc., Engineered Air, Munters, and Heat Pipe Technology.

Webcast Archive Available!

If you are unable to participate in the live webcast, the program replay will be archived online until May 3, 2012. Registration will be necessary to view the archived program. The webcast presenters are:

Ron Jarnagin ASHRAE President 2011-12, Staff Scientist Pacific Northwest Laboratory Richland, WA

Tim McGinn, P.E., LEED AP, Principal DIALOG Calgary, AB, Canada

Stanley Mumma, Ph.D., P.E., Professor Emeritus Pennsylvania State University University Park, PA

John Murphy, LEED AP, Applications Engineer Trane, La Crosse, WI

There is no fee for registration. To register and learn about the webcast program, continuing education credits, and ASHRAE dedicated outdoor air systems resources, visit www.ashrae.org/doaswebcast. If you have questions about the webcast, call 678-539-1200 or email <u>ashrae-webcast@ashrae.org</u>

Modeling for a Sustainable Future

ASHRAE seeks to advance the industry's ability to more accurately model and simulate a building's energy use.

Building on the successful Energy Modeling Conference format in April 2011, this conference will begin with an interactive session with modeling software developers presenting common modeling scenarios on how their specific software can model a scenario, whether there are any limitations and what might be the best work around and exceptional modeling practices to obtain acceptable results when the tool cannot model the scenario "out-of-the-box".

Click here for the <u>Conference Announcement and</u> <u>Call for Presenters</u>



ASHRAE conferences provide great opportunities for knowledge sharing and networking.



ASHRAE Society Press Release "Standard 62.1-2010"

ATLANTA: March 27, 2012

Public Input Sought on Alternative to ASHRAE Standard 62.1 Ventilation Rate Procedure Proposed:

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.

ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality, sets minimum ventilation rates and other requirements for commercial and institutional buildings.

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 I 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.

Contact: Jodi Scott Public Relations 678-539-1140 jscott@ashrae.org

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today.



ASHRAE Society Press Release "Standard 189.1"

ATLANTA: March 28, 2012

Standard 189.1 Deemed Compliance Option for IGCC; ICC Announces Availability of New Green Code:

The building industry now has greater flexibility in the design of high performance buildings through a change impacting application of the green building standard from ASHRAE, the U.S. Green Building Council (USGBC) and the Illuminating Engineering Society (IES) included in the International Green Construction Code (IgCC).

ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, provides a green building foundation for those who strive to design, build and operate high performance buildings. It covers key topic areas of site sustainability, water-use efficiency, energy efficiency, indoor environmental quality and the building's impact on the atmosphere, materials and resources.

Standard 189.1 now serves as a compliance option with the newly published IgCC, developed by the International Code Council (ICC) and endorsed by cooperating sponsors ASTM International and the American Institute of Architects. The change allows permit applicants – rather than the authorities having jurisdiction – the option to use Standard 189.1 as the path of compliance. In earlier versions of the IgCC, Standard 189.1 was deemed a "jurisdictional compliance option," meaning code jurisdictions had to choose between the provisions of Standard 189.1 and the IgCC in determining which compliance path to take.

"ASHRAE is pleased to see this change take place, allowing building designers, owners and contractors to choose to design to Standard 189.1, instead of the choice being made solely by the jurisdiction setting the code," Ron Jarnagin, ASHRAE president, said. "With today's release of the 2012 IgCC, jurisdictions now have a viable green code at their disposal. Standard 189.1 stands on equal footing within the IgCC to provide a more complete set of options for governments and project teams alike."

"IES also fully supports the change that removes the restriction," Rita Harrold, director of technology, said. "The resulting freedom of choice will benefit all segments of the construction industry involved in developing design criteria for high performance buildings."

The 2012 IgCC serves as a new model code for constructing and remodeling residential and commercial structures and is expected to increase sustainability, cost savings and job growth while providing direction for safe and sustainable building design and construction, according to the International Code Council.

"The IgCC adds to the strong foundation of guidance to move the industry forward in regards to high performance buildings," Jarnagin said. "The document brings together the code expertise of ICC with technical expertise of ASHRAE to create a comprehensive green building code to improve overall performance of buildings, including reduction of energy consumption."

"Today, the Code Council and its cooperating sponsors announce a new green construction code that will make a contribution toward healthier, lower impact and more sustainable building practices," Richard P. Weiland, CEO of the ICC, said. "The International Green Construction Code published today was developed during the last three years with input from code and construction industry professionals, environmental organizations, policy makers and the public. Our community was diligent in developing a code that is not only adoptable, usable and enforceable, but also flexible and adaptable. We expect this new model code, like the family of other ICC Codes, to be adopted across the country and used globally."

Early versions of the IgCC released during the development of the code already have been put into use by states and jurisdictions demonstrating the need and demand for safe and sustainable construction.

The IgCC was developed at public hearings with input from experts in code development and enforcement, architecture, engineering, building science, environmental advocacy, government, business, academia and the public.

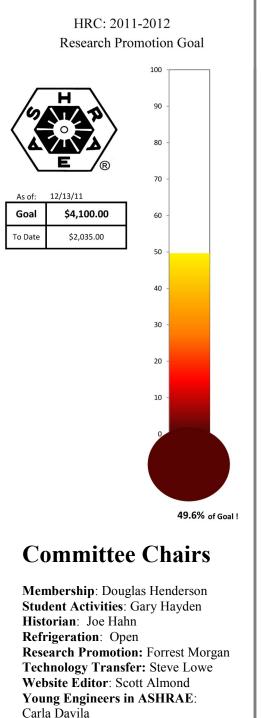
The IgCC is the first model code to include sustainability measures for an entire construction project and its site – from design, through construction, certificate of occupancy and beyond. It establishes minimum green requirements for buildings and complements voluntary rating systems. The IgCC offers flexibility to jurisdictions which adopt the code by establishing several levels of compliance, starting with the core provisions of the code, and then offering "jurisdictional requirement" options that can be customized to fit the needs of a local community. A jurisdiction can also require higher performance through the use of "project electives" provisions.

The code acts as an overlay to the existing set of International Codes, including provisions of the International Energy Conservation Code and ICC-700, the National Green Building Standard, and incorporates ASHRAE Standard 189.1 as an alternate path to compliance. The IgCC provides model code language that establishes a baseline for new and existing buildings related to energy conservation, water efficiency, site impacts, building waste, material resource efficiency and other sustainability measures. The IgCC will be updated alongside the other model codes developed through the Code Council's open, transparent and consensus-based code development process.

Contact: Jodi Scott Public Relations 678-539-1140 jscott@ashrae.org

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today.





Chair Volunteer: Jeremy Hollands Chair Volunteer: Jeremy Thomas

Nancy Mitchell Veeck, Dan Pettway,

Board of Governors:

Al Veeck

ITT TECH Auditorium 863 Glenrock Road, Norfolk, VA 23502

