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VOLUME 10, ISSUE 9 MAY 2016

MAY 2016 VOLUME 10, ISSUE 9

What’s Next?

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MAY 2016 VOLUME 10, ISSUE 9

MONDAY, MAY 9, 2016
ASHRAE Picnic / Golf Tournament
To be held at Ravenwood Golf Course

Ravenwood Golf Course
929 Lynaugh Road
Victor, NY 14564

Golf Registration 9:30 – 10:45
Juice, Scones and Coffee Served
11:00 am - Shotgun Start

Picnic: 4:30 PM - 8:00 PM
4:30 PM - 6:00 PM
Cocktails and Hors d'oeuvres
6:00 PM - 8:00 PM
Dinner Catered By:
Dinosaur Barbeque at Ravenwood Golf Club

Four Man Scramble and Optional Skins Game.
Golf includes:
- Golf
- Cart
- Driving Range
- Prizes
- On course beverages and food at the turn

(refer to page 18)

Statements made in this publication are not expressions of the Society or of the chapter and may not be reproduced without special permission of the chapter.
**Chapter Officers**

**President**  
Christina Walter  
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cmwalter@trane.com

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**Webmaster**  
Kevin Wind 585-263-1280  
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Ed Burns 585-739-7548  
ejb@mechtechhvac.com

**Buyer’s Guide**  
Marianne Schumacher 585-217-3942  
marianne.schumacher@jci.com
SAVE THE DATE

ASHRAE 2015-2016 Meeting Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Theme</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, 5/9/2016</td>
<td>Annual ASHRAE Golf Outing and Picnic</td>
<td></td>
<td>9:30 AM Golf</td>
</tr>
<tr>
<td></td>
<td>(Ravenwood Golf Course)</td>
<td></td>
<td>4:30 - 8:00 Picnic</td>
</tr>
</tbody>
</table>

ASHRAE Region I - Chapters Regional Conference (CRC)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/18-8/20/16</td>
<td>The Rochester ASHRAE Chapter is hosting the Region I CRC.</td>
<td>Hyatt Downtown</td>
</tr>
</tbody>
</table>

Research Promotion Update

The winner from the April meeting was Pat Whelan from Trane, who also donated his winnings back to ASHRAE!

Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.

Vision Statement

- will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.
- will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.
- will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.
President’s May Message

May President’s Message:

It’s hard to believe that May is already here and the ASHRAE calendar year is rounding the home stretch. On April 11th the Rochester ASHRAE Chapter had a presentation on Retro Commissioning of Existing Buildings. I would like to thank Mr. Al Rodgers, of Pathfinder Engineers, and Mr. Ron Sanger, of Air Systems Balancing, for their fantastic presentation. We are very fortunate to have such experienced and insightful presenters. We also tested out a new venue at the City Grill. For those that attended please provide your feedback, as we need a permanent location for next year’s Chapter lunch meetings.

On Saturday April 16th, the Rochester ASHRAE Chapter was an Affiliate sponsor at The Rochester Engineering Society’s 114th Annual Gala Event. We were honored to participate in such a worthy event.

The Rochester Engineering Symposium was held on April 24th, and it was a huge success! This year Ed Burns did a terrific job putting together a slate of three HVAC presentations sponsored by ASHRAE. Thank-you Ed!

As the program year is winding down, we prepare for the BIG annual golf/picnic on May 9th, a Trap/Skeet Shooting Event on Saturday, June 11th, and we have the honor of hosting the ASHRAE Region I Chapter Regional Conference (CRC) August 18-20, 2016. Our Chapter is currently seeking sponsorships to defray the costs associated with the CRC in an effort to reduce the costs for attendees of this event. If you are interested in becoming a sponsor of either event, please contact Jim Browe (jbrowe@rfpeck.com). Please see additional page in this issue that highlights in more detail the CRC. We hope to see you at both of these events and invite you to Come and enjoy Making Connections!

Continue to check out our website at www.rochester.ashraechapters.org for information on upcoming chapter meetings, current officer list and contact information, our current newsletter, CRC information and more! Or if Facebook is your preferred method of communication take a moment to ‘like’ us at www.facebook.com/#!/ashraerochester.

Christina Walter
2015-2016 President - Rochester Chapter
Highlights from April ASHRAE Meeting

Al Rodgers, (left) and Ron Sanger (right) highlights the importance of Retro-Commissioning of existing buildings.

Rochester Chapter

Committee Chairs Updates

Young Engineers in ASHRAE

YEA Frisbee Golf May 9th 3PM-4:30PM at Ellison Park. Contact Matt Kremers mkremers@mcsmms.com for more information.
This section of the newsletter is reserved for those firms wishing to advertise their desires to hire from the Chapters Membership.

If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Chapter President, Christina Walter 585-486-2148 or by email cmwalter@trane.com.

This service is available to ASHRAE members for any local firm in our industry looking for knowledgeable persons in the HVAC&R industry.

---

### Presidential Award Of Excellence

<table>
<thead>
<tr>
<th>Category</th>
<th>Par</th>
<th>Min Points</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter Operations</td>
<td>1000</td>
<td>400</td>
<td>925</td>
</tr>
<tr>
<td>Chapter Technology Transfer</td>
<td>1050</td>
<td>450</td>
<td>400</td>
</tr>
<tr>
<td>Grassroots Government Advocacy</td>
<td>650</td>
<td>500</td>
<td>0</td>
</tr>
<tr>
<td>Historical Criteria</td>
<td>300</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Membership Promotion</td>
<td>800</td>
<td>500</td>
<td>760</td>
</tr>
<tr>
<td>RP</td>
<td>1050</td>
<td>800</td>
<td>385</td>
</tr>
<tr>
<td>Student Activities</td>
<td>500</td>
<td>300</td>
<td>0</td>
</tr>
</tbody>
</table>

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Get involved on Facebook!

Visit our new Facebook page by searching for “ASHARE Rochester” on Facebook. Any ideas for additions or improvements email to Mark Kukla at mark@airsystemsbalancing.com. Keep up to date with current events and photos from recent meetings.
Conference Registration and Hotel Reservations can be made at: www.ashrae2016crc.com

What is the CRC?

The Chapters Regional Conference (CRC) is intended to provide a forum for the dissemination of information pertaining to chapter, regional and society activities. Region I consists of Connecticut, Maine, New Hampshire, New Jersey, New York, Rhode Island & Vermont. Chapters from these areas come together to report their activities from the past year and establish goals for the coming year. Technical sessions are conducted as well as award presentations and social activities. This is an annual conference and is located in the city of one of its region’s chapters and we are proud Rochester is this year’s chosen city for Region I. Typically 100-150 Region I ASHRAE Members along with spouses and families attend the CRC. Please go to www.rochester.ashraechapters.org for a detailed listing of the benefits of being a sponsor.

Conference Registration Fees

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>By July 15, 2016</th>
<th>After July 15, 2016</th>
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</thead>
<tbody>
<tr>
<td>Full Conference</td>
<td>$370</td>
<td>$450</td>
</tr>
<tr>
<td>Companion Full Conference</td>
<td>$220</td>
<td>$270</td>
</tr>
<tr>
<td>Kids Full Conference</td>
<td>FREE</td>
<td>FREE</td>
</tr>
<tr>
<td>Family Tour (Strong Museum of Play &amp; Lunch)</td>
<td>$15</td>
<td>$15</td>
</tr>
<tr>
<td>Companion Tour (George Eastman Museum, Artisan Works &amp; Lunch)</td>
<td>$35</td>
<td>$35</td>
</tr>
<tr>
<td>YEA Event (Genesee Brew House)</td>
<td>FREE</td>
<td>FREE</td>
</tr>
<tr>
<td>Friday/Saturday Conference</td>
<td>$220</td>
<td>$270</td>
</tr>
<tr>
<td>Friday/Saturday Companion</td>
<td>$130</td>
<td>$160</td>
</tr>
<tr>
<td>Saturday Only</td>
<td>$120</td>
<td>$150</td>
</tr>
<tr>
<td>Thursday Dinner Only (One East Ave Penthouse)</td>
<td>$65</td>
<td>$65</td>
</tr>
<tr>
<td>Friday Dinner Only (Hyatt Ballroom)</td>
<td>$85</td>
<td>$85</td>
</tr>
</tbody>
</table>

Sponsorship Levels:
- Platinum $5,000
- Gold $2,500
- Silver $1,000
- Bronze $500

Hyatt Regency Room Rate: $115 + taxes & fees

Note: Hotel reservation is separate from conference registration.
## EVENT SCHEDULE

<table>
<thead>
<tr>
<th>Day</th>
<th>Start Time</th>
<th>End Time</th>
<th>Event</th>
<th>Location</th>
<th>Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, August 18, 2016</td>
<td>7:00am</td>
<td>7:00am</td>
<td>Registration</td>
<td>Coatroom Alcove</td>
<td>All Attendees</td>
</tr>
<tr>
<td></td>
<td>12:00pm</td>
<td>2:00pm</td>
<td>Region 1 Audits</td>
<td>Wimont's</td>
<td>Invited Region 1 Officers</td>
</tr>
<tr>
<td></td>
<td>1:00pm</td>
<td>3:00pm</td>
<td>Hospitality Suite</td>
<td>Presidential Suite</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>1:00pm</td>
<td>3:15pm</td>
<td>Technical Session</td>
<td>Regency Ballroom</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>3:30pm</td>
<td>5:30pm</td>
<td>Business Meeting 1</td>
<td>Grand ABC</td>
<td>Delegates, Alternates &amp; Regional Officers and Chairs</td>
</tr>
<tr>
<td></td>
<td>6:00pm</td>
<td>7:00pm</td>
<td>Welcome Reception</td>
<td>One East Ave. Penthouse</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>7:00pm</td>
<td>8:30pm</td>
<td>Welcome Dinner</td>
<td>Genesee Brewery</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>8:30pm</td>
<td>12:00am</td>
<td>YEA Event</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:00pm</td>
<td>10:00am</td>
<td>Hospitality Suite</td>
<td>Presidential Suite</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td>Friday, August 19, 2016</td>
<td>7:00am</td>
<td>7:00am</td>
<td>Registration</td>
<td>Coatroom Alcove</td>
<td>All Attendees</td>
</tr>
<tr>
<td></td>
<td>9:00am</td>
<td>11:00am</td>
<td>Hospitality Suite</td>
<td>Presidential Suite</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>7:00am</td>
<td>9:00am</td>
<td>Breakfast</td>
<td>Grand Foyer</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>8:00am</td>
<td>9:00am</td>
<td>Local ASHRAE Recognition</td>
<td>Main Street Gallery</td>
<td>Invited Society and Local Guests</td>
</tr>
<tr>
<td></td>
<td>8:00am</td>
<td>10:00am</td>
<td>Caucus</td>
<td>Eastman Boardroom</td>
<td>Delegates &amp; Alternates ONLY</td>
</tr>
<tr>
<td></td>
<td>10:00am</td>
<td>11:45am</td>
<td>Chapter Operations Workshop</td>
<td>Grand ABC</td>
<td>Chapter Officers</td>
</tr>
<tr>
<td></td>
<td>10:00am</td>
<td>3:00pm</td>
<td>Companion Tour</td>
<td>The Eastman Museum, Artisan Works &amp; Lunch</td>
<td>Registered Attendees w/ RSVP</td>
</tr>
<tr>
<td></td>
<td>10:00am</td>
<td>3:00pm</td>
<td>Family Tour</td>
<td>The Strong Museum of Play &amp; Lunch</td>
<td>Registered Attendees w/ RSVP</td>
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<tr>
<td></td>
<td>12:00pm</td>
<td>1:00pm</td>
<td>Lunch</td>
<td>TBD</td>
<td>Registered Attendees</td>
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<td></td>
<td>2:00pm</td>
<td>3:30pm</td>
<td>Executive Session</td>
<td>Lafayette Room</td>
<td>Delegates &amp; Alternates ONLY</td>
</tr>
<tr>
<td></td>
<td>3:30pm</td>
<td>5:45pm</td>
<td>Business Meeting 2</td>
<td>Grand ABC</td>
<td>Delegates, Alternates &amp; Regional Officers and Chairs</td>
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<tr>
<td></td>
<td>6:00pm</td>
<td>10:00pm</td>
<td>Presidential Dinner</td>
<td>Grand DEFG</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>10:00pm</td>
<td>12:00am</td>
<td>Hospitality Suite</td>
<td>Presidential Suite</td>
<td>Registered Attendees</td>
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<tr>
<td>Saturday, August 20, 2016</td>
<td>7:00am</td>
<td>10:00am</td>
<td>Registration</td>
<td>Coatroom Alcove</td>
<td>All Attendees</td>
</tr>
<tr>
<td></td>
<td>9:00am</td>
<td>11:00am</td>
<td>Hospitality Suite</td>
<td>Presidential Suite</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>7:00am</td>
<td>9:00am</td>
<td>Breakfast</td>
<td>Grand Foyer</td>
<td>Registered Attendees</td>
</tr>
<tr>
<td></td>
<td>8:00am</td>
<td>9:00am</td>
<td>Research Promotion Workshop</td>
<td>Regency C</td>
<td>Research Chairs</td>
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<tr>
<td></td>
<td>8:00am</td>
<td>9:45am</td>
<td>Business Meeting 3</td>
<td>Grand ABC</td>
<td>Delegates, Alternates &amp; Regional Officers and Chairs</td>
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<tr>
<td></td>
<td>8:00am</td>
<td>9:45am</td>
<td>Government Activities Workshop</td>
<td>Grand E</td>
<td>GA Chairs</td>
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<tr>
<td></td>
<td>8:00am</td>
<td>11:00am</td>
<td>CTTC Workshop</td>
<td>Regency AB</td>
<td>CTTC Chairs</td>
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<tr>
<td></td>
<td>8:30am</td>
<td>9:30am</td>
<td>RECC Workshop</td>
<td>Carson</td>
<td>RECC Chairs</td>
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<td></td>
<td>8:30am</td>
<td>10:30am</td>
<td>Student Activities Workshop</td>
<td>Grand Foyer</td>
<td>Student Activities Chairs</td>
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<td></td>
<td>8:30am</td>
<td>11:30am</td>
<td>Membership Promotion Workshop</td>
<td>Winmore</td>
<td>Membership Chairs</td>
</tr>
<tr>
<td></td>
<td>10:00am</td>
<td>11:30am</td>
<td>Historic Workshop</td>
<td>Regency C</td>
<td>Historians</td>
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<tr>
<td></td>
<td>10:00am</td>
<td>11:30am</td>
<td>YEA Workshop</td>
<td>Carson</td>
<td>YEA Members</td>
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<tr>
<td></td>
<td>10:00am</td>
<td>12:00pm</td>
<td>Hospitality Suite</td>
<td>Presidential Suite</td>
<td>Registered Attendees</td>
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<tr>
<td></td>
<td>12:00pm</td>
<td>2:00pm</td>
<td>Awards Luncheon</td>
<td>Grand ABCD</td>
<td>Registered Attendees</td>
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<tr>
<td></td>
<td>2:30pm</td>
<td>3:30pm</td>
<td>CRC Debrief</td>
<td>Carson</td>
<td>CRC Host Committee &amp; Guests</td>
</tr>
</tbody>
</table>

Conference schedule is preliminary, subject to change prior to CRC.

A special Thank-you goes to our sponsors who are making this CRC a memorable event.

- **Platinum Level**: $5,000
- **Gold Level**: $2,500
- **Silver Level**: $1,000
- **Bronze Level**: $500

Paired with Hotel Windmill, Geneseo, NY, this CRC promises an excellent networking opportunity.
It’s ASHRAE Clambake Time!!!

Central New York Chapter
1941-2016

Come Celebrate Our 75th Anniversary!
Thursday, June 9, 2016 4—8 PM
Hinderwadel’s Grove, North Syracuse

Special 75th Anniversary Ticket Price — $45.00

Fun, Food, Drinks, Games and More!
The bake is a continuous buffet featuring the following:
- Steamed clams, raw clams, clam chowder, roast pig
- Fried chicken, BBQ, beef and pork sandwiches
- Desserts & beer on tap!

Major Door Prizes:
60” Flat Screen, Uncle Sam Boat Tours, Adirondack Scenic Tours,
greens fees at local courses, and more!

Tickets Go On Sale May 1st!
For tickets contact Bonnie Henderson c/o Syracuse Thermal Products @ 315.437.7321
Tickets can be purchased through PayPal ($46). To purchase tickets online, visit
http://centralnewyork.asraechapters.org and click on the link “Buy Clambake Tickets.”
Mail checks payable to: CNY Chapter ASHRAE and send to:
Syracuse Thermal Products, Inc.
P.O. Box 398
East Syracuse, New York 13057
# Board of Governors Meeting Minutes

**Rochester Chapter - ASHRAE**  
**Board of Governors Meeting**  
**April 7th, 2016 7:30 AM**  
**Location: Trane, 75 Town Centre Dr. Rochester, NY 14623**

## AGENDA

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>President / CRC Delegate</td>
<td>Christina Walter</td>
<td>X</td>
</tr>
<tr>
<td>President Elect / Program/ CRC Alternate</td>
<td>Jeff Close</td>
<td>X</td>
</tr>
<tr>
<td>Secretary</td>
<td>Bill Clark</td>
<td>X</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Paul Kenna</td>
<td>X</td>
</tr>
<tr>
<td>Immediate Past President</td>
<td>Ed Burns</td>
<td>X</td>
</tr>
<tr>
<td>Board of Gov. (1)</td>
<td>Steve Dear</td>
<td></td>
</tr>
<tr>
<td>Board of Gov. (1)</td>
<td>Sam Scorsone</td>
<td>X</td>
</tr>
<tr>
<td>Board of Gov. (2)</td>
<td>Branden Farnsworth-Weinblatt</td>
<td></td>
</tr>
<tr>
<td>Board of Gov. (2)</td>
<td>Tom Streber</td>
<td>X</td>
</tr>
<tr>
<td>Board of Gov. (3)</td>
<td>Mike Benedict</td>
<td>X</td>
</tr>
<tr>
<td>Board of Gov. (3)</td>
<td>Scott Edwards</td>
<td></td>
</tr>
<tr>
<td>Attendance</td>
<td>Tim Duprey</td>
<td>X</td>
</tr>
<tr>
<td>Historian</td>
<td>Lee Loomis</td>
<td></td>
</tr>
<tr>
<td>Membership Promotion</td>
<td>Jake Hall</td>
<td>X</td>
</tr>
<tr>
<td>Newsletter Editor</td>
<td>Scott Edwards</td>
<td></td>
</tr>
<tr>
<td>Resource Promotion</td>
<td>Matt Devlin</td>
<td>X</td>
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<tr>
<td>Awards</td>
<td>Al Rodgers</td>
<td></td>
</tr>
<tr>
<td>CTTC</td>
<td>Jeff Wiedrck</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>Bill Murray</td>
<td></td>
</tr>
<tr>
<td>Publicity</td>
<td>Mark Kukla</td>
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<tr>
<td>Website</td>
<td>Kevin Wind</td>
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<tr>
<td>YEA Chair</td>
<td>Matt Kremers</td>
<td>X</td>
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<tr>
<td>Student Activities</td>
<td>Chris Lukasiewicz</td>
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<tr>
<td>Nominating (2nd Past President)</td>
<td>Michelle Sommeman</td>
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<tr>
<td>Picnic/Golf Chair</td>
<td>Jim Browe</td>
<td>X</td>
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<tr>
<td>Buyers Guide</td>
<td>Marianne Schumacher</td>
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<tr>
<td>Valentine’s Dinner Dance</td>
<td>Jody M. McGarry</td>
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<tr>
<td>Chapter Tech Energy &amp; Govt Activities</td>
<td>Tom Burke</td>
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<tr>
<td>Refrigeration</td>
<td>Mike Nohle</td>
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</table>
Board of Governors Meeting Minutes

Roll Call: The above noted individuals were present.

Call to Order: 7:36 AM

Meeting Minutes:

1. Call to Order
   - Chris Walter

2. Roll Call
   - Bill Clark

3. President Elect / Program
   - Jeff Close
   - Our last meeting is PDH approved, meeting to be held at City Grill

4. Approval of previous meeting's minutes
   - All
   - Motion to Approve - Jeff Close
   - Second - Matt Devlin

5. Treasurer’s Report 2015/2016
   - Paul Kenna
   - Paul provided a report, we are running a little ahead on our checking account balance.
   - Some of the money in the checking account is for the CRC.

6. Committee Reports
   - Technology Transfer Committee
     - Jeff Wiedrick
     - Program/Tech Sessions
     - Technology Transfer
       - We do not have a submission for this year.

   - Membership
     - Jacob Hall
     - Membership is status quo, we added 1 new member last month and are now at about 243 members.

   - Student Activities
     - Chris Lukasievicz
     - There is a McQuaid student will be interviewing with Chris for an ASHRAE scholarship.

   - Education
     - Bill Murray
     - No report.
     - Has PIE membership been renewed?

   - YEA
     - Matt Kremers
     - 19 students came in for the Air Side Fundamentals class held 4/6/16.

   - Awards & Recognition
     - Al Rodgers
     - No report.
     - Chris to reach out to Al about awards to be presented at picnic.

   - Resource Promotion
     - Matt Devlin
     - Matt provided a proposed budget for the Trap / Skeet outing.
     - We need 20 people to break even with a $40 fee.
     - CRC to sponsor Trap/Skeet event, how the sponsorship is to be applied is to be determined.
     - We will advertise the event at $30 this year.

   - Refrigeration
     - Mike Nohle
     - Want the refrigeration committee to be able to make training resources available to members.
     - Possible training event for next year.

   - Grassroots Government Advocacy
     - Tom Burke
     - No report.
Board of Governors Meeting Minutes

- **Newsletter**
  - Scott Edwards
  - April newsletter is ready to be sent out.

- **Buyers Guide**
  - Marianne Schumacher
  - Marianne is requesting board members to get their companies signed up for the Buyers Guide ads.
  - We can sign up on the website.

- **Attendance**
  - Tim Duprey
  - Tour was well attended with 51 people.
  - We are currently at 55 for this month’s meeting.
  - This is the 1st month at City Grill.

- **Historian**
  - Lee Loomis
  - We are looking for a new historian, Lee has offered to stay involved to help the new historian get started.

- **Publicity**
  - Mark Kukla
  - No report.

- **Website**
  - Steve Dear
  - No report.

- **Nominating**
  - Ed Burns
  - Ballot is set for this year, pending nominations from the floor at Monday’s meeting.

- **CRC 2016 General Chair**
  - Jim Browe
  - Jim and Jeff to meet with Region 1 and present CRC plans for this year.
  - Website and flyers have been completed.

- **Valentine’s Dance**
  - Jody McGarry
  - The final report shows a profit after substantial donation this year.

- **Picnic**
  - Jim Browe
  - Jim is looking for sponsors, urging board members to request sponsorships from their companies.
  - Venue and catering is all set.

7. **Old Business**
   - Log PAGE points in monthly, create/Update your Biography on www.ASHRAE.org website
   - New location for meetings is being researched. Potentially Pomodoro’s (University Ave).

8. **New Business**
   - Potential Candidates to take over as Rochester Chapter Historian
   - RES Gala, Saturday April 16th
   - RP Trap/Skeet shoot event: June 11th

9. **Next BOG meeting:** Thursday, May 5th 7:30 am at Trane.

10. **Adjourn 8:29 am**
What You’ll Get With Your ASHRAE Student Membership!

What’s “Cool” in ASHRAE
- ASHRAE promotes energy efficiency, savings and recovery
- ASHRAE reports on building controls, automation and integration
- ASHRAE focuses on green building issues and green technology
- ASHRAE maintains standards for indoor air quality
- ASHRAE promotes solar and other alternative energy sources
- ASHRAE offers certification programs, online learning opportunities and courses and seminars at ASHRAE Conferences

How Can ASHRAE Help You?
- Provide access to new technology
- Offer professional development opportunities
- Create opportunities for networking
- Offer online continuing education programs and eLearning programs

Student Member Benefits
- Access to members-only web pages
- Discounts on ASHRAE Handbooks
- Monthly ASHRAE Journal - print and digital
- HVAC&R Industry and Society Connections eNewsletters
- Complimentary ASHRAE Annual and Winter Conference registration (AHR Expo, Student Program, Technical Sessions)
- Virtual online HVAC&R resume posting, job and internship searching program

ASHRAE Student Member Opportunities
- Society and chapter-level scholarships for both undergraduate and graduate engineering students
- Discounts for student members on select publications, go to www.ashrae.org/bookstore for more information
- Student Design Competition
- Networking with local ASHRAE Chapters
- Senior Undergraduate Project Grant Program
- At the student branch level, you’ll enjoy meeting other students with similar interests - if your school hasn’t yet started a student branch, take charge and contact a faculty member and ask for help on getting started!

You can continue your student membership after college with the ASHRAE SmartStart Program. After you graduate, you pay $20 for the first year, $50 for the second and the third years before advancing to regular member dues!

Join ASHRAE students on Facebook
Visit www.ashrae.org/students to join!
Tips for ASHRAE Scholarship Applicants

Make sure ...

- You meet all applicable criteria
- You read the application carefully and answer all questions completely and honestly.
- The application and all required documents are submitted or postmarked on or before the applicable deadline.
- Your application is NEAT, legible (typed or handwritten clearly), and proper English (correct grammar and spelling) is used when responding to essay questions.
- To take time to submit a brief, non-required introductory cover letter
- You are clear and thorough when stating goals and financial need.
- You contact the nearest ASHRAE chapter for an interview with the Student Activities Chair or other officer to learn more about the Society.
- You find out if your school hosts an ASHRAE student branch.
- You contact ASHRAE headquarters if you have any questions and to ensure your application has been completed and submitted properly.

More information on the scholarship and details on how to apply can be found at [www.ashrae.org/scholarships](http://www.ashrae.org/scholarships).
Get Your Company into the 2016 Buyers Guide Today!

What are the benefits to being in the ASHRAE Buyers Guide??

• Publication of your business and services

• Attract new customers

• Generate visibility and awareness at ASHRAE participating events inside and outside of the industry

• Strengthen communications between, manufacturers, sales representatives, engineers who specify products and contractors who purchase / install those products
Article Details

- Not only limited to ASHRAE associated members
- Cost is $125.00
- Checks accepted made out to ASHRAE Rochester Chapter or pay on website via PayPal
- May be color or B&W
- Size should be 8 1/2 x 11 PDF format
- Updated on an annual basis

Visit the Rochester ASHRAE website to check out more or pay by PayPal!

Have Questions??
Contact: Marianne Schumacher
585-217-3942
2016 ASHRAE PICNIC SPONSORSHIP FORM
Monday, May 9, 2016

Ravenwood Golf Course
929 Lynaugh Road
Victor, NY 14564
11:00 AM – 4:30 PM - Golf
4:30 PM - 8:00 PM - Picnic

Thank you in advanced for supporting this long standing Rochester ASHRAE Chapter tradition.

---

Please fill out so we can correctly recognize you or your company:

Company Name: ________________________________
OR
Individual Name: ________________________________
Address: _______________________________________
City: ________ State: ________ Zip: ________
Phone: (Work) ___________ (Home) ___________

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Sponsorship Form

<table>
<thead>
<tr>
<th>Sponsorship Name</th>
<th>X here for Sponsorship</th>
<th>Sponsorship Amt.</th>
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<td>Major Door Prize Sponsor – Gift/Item or Cash Donation- $200 or more.</td>
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<tr>
<td>Gold - $250.00 - Hole Sponsorship and Recognition at Picnic</td>
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<tr>
<td>Silver - $150.00 - Hole Sponsorship</td>
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<tr>
<td>Bronze - $100.00 - Recognition at Picnic</td>
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<tr>
<td>Prize Sponsor - $175.00 - Longest Drive</td>
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<tr>
<td>Prize Sponsor - $175.00 - Closest to Pin</td>
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Total Check Amount: $_________
MONDAY, MAY 9, 2016
ASHRAE Picnic / Golf Tournament
To be held at
Ravenwood Golf Course

Reservation Deadline is... April 29, 2016
(There is a limited amount of tickets this year on a first come basis)

Ravenwood Golf Course
929 Lynaugh Road
Victor, NY 14564
Golf Registration 9:30 – 10:45
Juice, Scones and Coffee Served
11:00 am - Shotgun Start

Picnic: 4:30 PM- 8:00 PM
4:30 PM - 6:00 PM
Cocktails and Hors d'oeuvres
6:00 PM - 8:00 PM
Dinner Catered By:
Dinosaur Barbeque
at Ravenwood Golf Club

Four Man Scramble and Optional Skins Game.

Golf includes:
- Golf
- Cart
- Driving Range
- Prizes
- On course beverages
  and food at the turn

NO TICKETS WILL BE SOLD OR DISTRIBUTED AT THE DOOR!
TICKETS WILL BE MAILED TO YOU OR CAN BE PICKED UP AT
THE R.F. PECK CO., INC.

Please include check and make payable to:
“ASHRAE – Rochester Chapter”

Return this form....
Mail prior to April 29, 2016 to:
Attention: Kacie Hoffman
R.F. Peck Co., Inc.
889 Atlantic Avenue
Rochester, New York 14609
Any questions, call (585) 697-0839 ext. 105
Email: khoffman@rfpeck.com

Address where you would like your picnic tickets sent to:

Company: ____________________________
Contact Name: _________________________
Address: _____________________________
City: __________ State: __________ Zip: ______
Phone: (Work) __________ (Home) __________

Entry Form

<table>
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<tr>
<td>Picnic</td>
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<tr>
<td>Golf and Picnic (SAVE $10.00)</td>
<td>$130.00</td>
<td></td>
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<td>OR:</td>
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SAVE THE DATE
– 6/11/16 –
ASHRAE TRAP /SKEET OUTING

Trap & Skeet Shooting Outing
Please join us on Saturday, June 11th 2016 at Rochester Brooks Gun Club for a Trap & Skeet shooting outing. Registration details will be available in the coming weeks. Shooters will need to provide their own firearms. Please contact Matt Devlin for more information mdevlin@bergmannpc.com.

ROCHESTER BROOKS
962 Honeoye Falls #6 Rd., Rush, NY 14543
Directions
Saturday, June 11th
10:00AM
April Keynotes

The complete Technical Program for the 2016 Annual Conference is now available online. Last day for early bird registration pricing is April 26. Hope to see you all there!
It's that time of the year again! July will be here before we know it. If you are returning as MP Chair next year, we look forward to you joining us at one of the 2 Centralized Trainings that we will offer. If you are leaving us, now is the time to work with your Chapter President on your secession plan and decide who the MP Chair for next year will be.

The first Centralized Training event for Regions I through XII will occur at the ASHRAE Annual Meeting in St Louis. Please take 5 minutes and register now, if you will want to attend. We are already seeing a surge in registrations for St Louis and I wouldn't want anyone to miss out. The Centralized Training event for Regions XIII and RAL will be held in conjunction with the Mega CRC in Bangkok. More details will come available closer to the event date.

2016 Membership Promotion Centralized Training for Regions I through XII
Sunday, June 26, 2016 8:00am to 4:00pm EDT
The Holiday Inn St. Louis Downtown - Convention Center
811 N 9th St, St. Louis, MO 63101

When you leave Centralized Training, you will be fully equipped and ready for a new exciting membership year. You will walk away knowing how to quickly and efficiently complete membership campaigns, monthly tasks, automate communications, locate resources, and so much more. We give you the tools necessary to tackle the big important membership challenges of your chapter, all in a laid back conversational environment.

1. REGISTER for training by June 3, 2016.
2. BOOK YOUR HOTEL.
   We expect the hotel to sell out so please book ASAP!
   The Holiday Inn St. Louis Downtown - Convention Center
   811 N 9th St, St. Louis, MO 63101
   ASHRAE room rate: $139.00
3. Arrange your transportation in accordance to ASHRAE's Transportation Policy. If you wish to book direct through AMEX, call 1-800-872-9954 and mention ASHRAE and Membership Promotion.
Costs Associated with Attending:

- There is no fee to register for Centralized Training itself. Training will include lunch the day of training as well as snacks and drinks during the day.
- ASHRAE covers your flight or mileage, whichever is more affordable, based on the ASHRAE Transportation Policy.
- Your hotel, any additional ground transportation expenses (e.g. taxi, shuttle, etc.) and food cannot be covered by ASHRAE. We recommend MP Chairs dialog directly with their chapter president on what the chapter can cover.

Join ASHRAE by Friday, May 13, 2016 for a chance to win a LulzBot™ Mini 3D Printer. New ASHRAE Members and Associates who join ASHRAE by Friday, May 13, 2016 will be eligible to win a LulzBot © Mini Desktop 3D Printer. The winner will be contacted by Wednesday, June 8, 2016. Learn More>>
Thank you for using Connect-a-Colleague!

During its first month ASHRAE members connect 934 people to ASHRAE using Connect-a-Colleague! Of those connections, ASHRAE welcomed 133 new members so far. We are excited to announce the TWO winners of the $500 American Express gift cards this week. Please remember this tool is always available to use and can be found at www.ashrae.org/connect.

Quebec Bridge, 1904.

New Video: Iron Ring

Engineers have a responsibility to society, and the power to change the world. In this video, ASHRAE examines the tradition of the Iron Ring and the Order of the Engineer.
Register and Win a Free Chapter Visit!

Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox

Registration for the April 21 FREE Webcast opens March 21 at [ashrae.org/webcast](http://ashrae.org/webcast) Chapters who register to view the webcast will be entered to win ASHRAE logo items. This year’s grand prize will be a FREE CHAPTER VISIT from one of our esteemed presenters.

ASHRAE Member Spotlight

LeAnna Reynolds
Northeastern Oklahoma/President

LeAnna Reynolds is one of the first women to preside as President of the Northeastern Oklahoma Chapter. See how her steadfast participation in ASHARE has shaped her success, family, and future. [Learn more](http://learnmore) about how Reynolds’ connections in ASHRAE changed her career.
ASHRAE Foundation Offers Scholarships for Chapters

Does your chapter find the burden of investing the scholarship dollars challenging? Do issues with chapter continuity make investment of chapter assets a potential liability and cause for concern?

The ASHRAE Foundation offers solutions for chapters looking for help with managing the investment of their local scholarships. Learn more or contact Margaret Smith, Development Manager.

Donald A. Siller Refrigeration Award

Please contact your CTTC RVC for the regional competition deadline and details.

Donald A. Siller was the president and owner of Electro Motion Refrigeration, Inc. in Chesterfield, Missouri, and had over forty years experience in industrial refrigeration system engineering, design and applications. He served as President of the St. Louis Chapter and is currently a life Member of ASHRAE.

Named in Don’s honor, the Donald A. Siller Refrigeration Award recognizes exceptional performance by a Chapter Refrigeration Chair for planning activities and providing technology transfer on the subject of refrigeration. Don was passionate about recognizing and awarding members who "keep the R in ASHRAE."

The requirements of the Donald A. Siller Refrigeration Award can be found here.
An Efficient Future for Buildings of the Past Proposed Under ASHRAE Guideline

ATLANTA – Historical buildings – from those on the local Main Street to world-renowned structures – could be brought from the past into an energy reduced future under a proposed guideline from ASHRAE.

ASHRAE Guideline 34P, Energy Guideline for Historical Buildings, provides advice for energy efficiency and energy conservation improvements involving historic structures. These improvements would seek to minimize disturbances to the historic character, characteristics and materials (significance, value and qualities).

The proposed standard is open for a second public comment until May 2, 2016. To comment or learn more, visit www.ashrae.org/publicreviews.

“The worldwide preservation community recognizes the importance of reducing the consumption of fuels,” William Rose, a member of the Guideline 34P committee, said. “Many codes and standards exempt such buildings from energy conservation requirements, based on an assumption that imposition of energy-saving measures may compete with preservation requirements. Nevertheless, preservationists generally wish to balance the mandate to maintain the integrity and authenticity of their buildings with growing needs for energy conservation. And some codes, notably the recent International Energy Conservation Code, have moved from a blanket exemption to a narrower provision-by-provision basis.”

Guideline 34P, which offers assistance for the range of historic buildings, will help those engaged in preservation to design and provide energy conservation measures. Rose said it also will help those engaged in energy conservation to propose and adopt measures consistent with preservation practice. The guideline addresses planning and operation, mechanical systems, building envelopes and lighting.

The guideline was the idea of Presidential Member Tom Watson for whom historical buildings are a pet project. “We just can’t give up on using historic buildings,” he said. “They are too valuable and leave too large an environmental footprint to be neglected or abandoned.”

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Proposed ASHRAE Energy Simulation Standard Open for Public Review

ATLANTA – A draft standard that describes a methodology to apply building energy modeling to the design process is open for industry input.

ASHRAE Standard 209P, Energy Simulation Aided Design for Buildings Except Low-Rise Residential Buildings, defines minimum requirements for providing energy design assistance using building energy simulation and analysis. The proposed standard is open for public comment until May 9, 2016. To comment or learn more, visit www.ashrae.org/publicreviews.

"ASHRAE recognizes that building energy simulation is most useful when it can inform the design process to reduce energy use," Jason Glazer, chair of the Standard 209P committee, said. "The standard was created to advance the use of timely building energy modeling to quantify how design decisions can affect building energy use when those design decisions are being made."

While earlier draft versions of the proposed standard incorporated energy modeling into the typical design process divisions of schematic design, design development, etc., the committee realized that many tasks, data and goals of each modeling effort, or cycle, were similar enough to create a "generic modeling cycle." The draft standard was rewritten to incorporate a generic modeling cycle that is augmented with additional directions to create several specific modeling cycles that are incorporated into the typical design process.

Standard 209P defines seven design phase modeling cycles with specific modeling goals that are defined and coordinated with the typical design process, and three modeling cycles are defined that apply during construction and operation of the buildings. Each modeling cycle is an extension of a general modeling cycle that can be applied any time during the design process that energy modeling is needed to inform design decisions. In addition, a post-occupancy comparison is included to help owners and modelers understand how modeled results compare actual energy performance and inform assumptions in future modeling projects.

"The minimum requirements of the standard can be met by utilizing building energy modeling to evaluate load reduction measures early in the design process, as well as one additional design phase modeling cycle," Glazer said. "Other modeling cycles are included for organizations that wish to adopt more robust energy modeling requirements."

While the standard can be applied with any design process, it is anticipated to be most effective when included in an integrative design process. It is expected the 209P will be adopted by organizations that certify high performance buildings as well as utilities and agencies that provide incentives for low energy buildings, and used by building owners and architects seeking a uniform way to specify a scope of work for building energy modeling.

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Changes to Purpose and Scope of Standard 189.1 Open for Public Comment

ATLANTA – Changes to the purpose and scope that reflect advances in green buildings over the last 10 years are proposed for the high performance building standard from ASHRAE, the International Code Council (ICC), the U.S. Green Building Council (USGBC) and the Illuminating Engineering Society (IES).

ASHRAE/IES/USGBC/ICC Standard 189.1, Standard for the Design of High Performance Green Buildings, contains minimum requirements for the siting, design and construction of high performance green buildings in support of reducing building energy use, resource consumption and other environmental impacts while maintaining acceptable indoor environments.

Nine proposed addenda to the standard opened for public review on April 8, 2016. To comment or learn more, visit www.ashrae.org/publicreviews.

Among them is addenda o, which proposes revisions to the existing purpose and scope of the standard to clarify its intended purposes and application, and to better reflect the revisions to the standard that are being considered by the committee. Committee chair Andrew Persily notes that the current title, purpose and scope were approved in 2006 and that much has taken place in the world of green buildings in the past 10 years.

Under addenda o, the purpose of the standard has been rewritten to focus on goals vs. strategies. For example, rather than energy efficiency, the goal of reduced building emissions is proposed for inclusion in the purpose.

A new section of the purpose speaks to the alignment of Standard 189.1 with the International Green Construction Code (IgCC), noting specifically that the standard is intended to serve as the technical basis of mandatory buildings codes and regulations for high performance buildings.

Standard 189.1 currently is a compliance option of the 2015 IgCC, published by the International Code Council, ASTM and the American Institute of Architects. The standard will serve as the technical content for the IgCC beginning in 2018.

Other addenda open for public review from April 8 until May 8, 2016 are:

- Addendum i reorganizes the roof heat island mitigation section and adds new provisions for vegetated terrace and roofing systems relative to plant selection, growing medium, roof membrane protection and clearances. In addition, provisions for the operation and maintenance of vegetated roofs are proposed for addition to Section 10.
- Addendum n clarifies footnote b to Table 7.5.2A. This footnote provides a method to adjust the percent reduction for buildings with unregulated energy cost exceeding 35 percent of the total energy cost. This addendum clarifies that the adjustment is to be made on the basis of energy cost, not energy use.
- Addendum p proposes to add requirements for water bottle filling stations, which are intended to improve water efficiency and sanitation of public drinking water and to reduce the environmental effects of plastic bottles.
- Addendum r lowers the ductwork pressure testing threshold to include 3” pressure class ducts, which are common upstream of variable air volume (VAV) boxes.
- Addendum t adds new requirements for reverse osmosis and onsite reclaimed water systems in order to reduce the likelihood of excessive water use due to poor design of water treatment and filter system
- Addendum u adds new requirements for water softeners to reduce water consumption given the impact of the design and efficiency of these systems on water discharge water rates.

Open for public review from April 8 until May 23, 2016 are:

- Addendum q modifies Chapters 5, 7, 8 and 11 as well as Appendices A and E, to reflect the addition of Climate Zone 0 in ANSI/ASHRAE Standard 169-2013, Climatic Data for Building Design Standards.
- Addendum s removes the performance option for water use and moves the prescriptive option into the mandatory section.
2016 IAQ Standard Published by ASHRAE

ATLANTA – Requirements regarding multifamily residential dwellings, environmental tobacco smoke, and operations and maintenance are among changes to ASHRAE’s newly published indoor air quality standard. ANSI/ASHRAE Standard 62.1-2016, *Ventilation for Acceptable Indoor Air Quality*, sets minimum ventilation rates and other requirements for commercial and institutional buildings.

“The latest version of Standard 62.1 contains changes that affect high rise residential spaces, the indoor air quality procedure, laboratory exhaust and demand control ventilation,” Hoy Bohanon, chair of the Standard 62.1 committee, said. “Designers and users of the standards who are involved with those spaces or processes will benefit from using the up-to-date requirements.”

As with the 2016 version of Standard 62.2, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*, the scope of Standard 62.1 has changed. Multifamily residential dwelling spaces have been removed from the standard and now are covered under 62.2, according to Hoy Bohanon, chair of the Standard 62.1 committee. Spaces outside of the dwelling space such as corridors, lobbies, fitness rooms, retail, etc., remain covered by Standard 62.1.

Other major changes are:

- Revision of the definition of “environmental tobacco smoke” (ETS) to include emissions from electronic smoking devices and from smoking of cannabis.
- Revision of operations and maintenance requirements to more closely align with the requirements in ASHRAE/ACCA Standard 180-2012, *Standard Practice for Inspection and Maintenance of Commercial-Building HVAC Systems*.
- Addition of requirements to the Indoor Air Quality Procedure for determining minimum ventilation rates by including consideration of the combined effects of multiple contaminants of concern on individual organ systems.
- Assignment of laboratory exhaust to a default of Air Class 4, with an explicit allowance for a responsible environmental health and safety professional to determine that a lower air class is appropriate for particular systems.
- Reduction of ventilation allowed to zero through the use of occupancy sensors (not through contaminant or carbon dioxide measurements) for spaces of selected occupancy types, provided that ventilation is restored to Vbz whenever occupancy is detected.
- Changes of language related to demand control ventilation confirming that the standard is intended to be used for physical operation in addition to calculations for code review.

The cost of Standard 62.1-2016, *Ventilation for Acceptable Indoor Air Quality*, is $84, ASHRAE members ($99, non-members). To order, visit www.ashrae.org/bookstore or contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or fax 678-539-2129.

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Existing Building Energy Efficiency Featured at ASHRAE 2016 Annual Conference

ATLANTA – Increasing the energy efficiency and reducing the energy consumption of existing buildings can have four times the environmental impact as compared to the installation of renewable energy.

With existing building renovation accounting for most of the money spent in U.S. building construction today, actual building performance needs to be determined to make the most of those dollars spent. Setting those metrics and increasing existing buildings’ energy efficiency is described in a seminar at the ASHRAE 2016 Annual Conference.

The Conference takes place June 25-29, Marriott St. Louis Grand Hotel and America’s Center Convention Complex. To register or for complete information, visit www.ashrae.org/stlouis.

In 2015, ASHRAE and the Illuminating Engineering Society published ANSI/ASHRAE/IES Standard 100, Energy Efficiency in Existing Buildings, which goes beyond energy efficiency minimums in that it requires energy management and operation and maintenance plans.

"By requiring energy audits and providing for life cycle cost analysis of potential energy efficiency measures, the standard gives building owners the tools and opportunity for even higher performance," Gordon Holness, who helped write the standard, said.

Holness is a speaker at a seminar at the Conference, Standard 100-2015 Overview and the Potential of Its High-Performance Existing Building Metrics, which takes place June 29.

The standard sets specific energy targets based on building type, occupancy and climate zone with target tables established based on the top 25 percent performers within the U.S. Department of Energy’s Commercial Building Energy Consumption (CBECS) data base. On an aggregate basis the standard is expected to reduce building energy use by approximately 30 percent.

“The standard recognizes that U.S. annual investments in renovation of existing buildings account for around 86 percent of all money spent in building construction today,” he said.

The seminar is one of 108 sessions in the Technical Program, which is organized into eight tracks that will cover topics such as current trends and technologies in the industry; professional development and residential systems; new design strategies for achieving net zero buildings; high energy efficiency and methods of design, including recent advances in alternative energy systems and equipment. The program features more than 400 speakers.

“The technical sessions offer an excellent opportunity to learn the results of cutting edge research and the latest standards that affect the built environment.” Thomas Kuehn, Conference Program chair, said. “Topics include nearly every technology used in HVAC&R including alternative refrigerants, fire and smoke control, smart control systems and sources and efficient utilization of renewable energy. In addition, these sessions are an opportunity to learn the personal and business skills necessary to become and remain a leader in our industry.”

For a full list of sessions and speakers, visit the new interactive technical program at www.ashrae.org/stlouisinteractivetechprogram.
ASHRAE Congratulates Senate on Passage of Energy Policy Modernization Act

ATLANTA – ASHRAE is pleased to see the passage on Wednesday by the U.S. Senate of the Energy Policy Modernization Act, marking an important step toward making buildings in all sectors more energy efficient.

The Senate passed the Act by a vote of 85 to 12. The bill contains numerous building energy code provisions that were supported by ASHRAE.

“The passage of the Energy Policy Modernization Act demonstrates the power of persistent bipartisan leadership by many leaders throughout the Senate. Each of these senators understands the need for reform and the dangers that lie ahead if we do not change,” ASHRAE President David Underwood said. “This accomplishment is shared by hundreds of stakeholders who have connected with members of Congress, helping them understand the complexities and likely impacts of legislation on the building and many other industries. ASHRAE congratulates the Senate on this accomplishment and stands ready to assist as leaders in both chambers work to produce a final bill that the President can sign, and which truly advances the arts and sciences of HVAC&R to serve humanity and promote a sustainable world.”

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 55,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at
New Research from ASHRAE Outlines Measures to Reach Toward Net Zero Energy

ATLANTA – Application of 30 specific energy savings measures across all building types and climate zones resulted in cutting energy use by nearly half, according to results of newly approved research funded by ASHRAE.

The national weighted change is 47.8 percent more energy efficient than Standard 90.1-2013 based on site energy and 47.8 percent more energy efficient than 90.1-2013 based source on energy.

The question of “how energy efficient can commercial and multifamily buildings become in the near future if first cost is not considered” was explored in ASHRAE 1651-Research Project, “Development of Maximum Technically Achievable Energy Targets for Commercial Buildings: Ultra-Low Energy Use Building Set.”

“The value of establishing such ultra-low-energy targets for buildings is two-fold,” Jason Glazer, principal engineer for GARD Analytics who oversaw the project, said. “These targets will indicate to building design professionals what may be achieved if first cost is not considered and challenge the creativity of those professionals to achieve similar results in actual designs with the real-world constraints of first costs. They also will help advance design guides, standards and codes by providing an ultimate goal.”

For the project, researchers assembled a list of energy efficiency measures that can be included in the design of non-residential buildings. The list included both commonly used and cutting edge energy efficiency measures, according to Glazer.

From the resulting list of almost 400 measures, 30 were chosen for additional analysis. Sixteen prototype buildings that were consistent with Standard 90.1-2013, Energy Efficiency Standard for Buildings Except Low-Rise Residential, across 17 climate zones were used as baseline models. The 30 measures then were individually modeled. Each of the 30 measures, often with many options, were applied to each building and climate combination. In general, the measures were applied in the following order:

- Reduce internal loads
- Reduce building envelope loads
- Reduce HVAC distribution system losses
- Decrease HVAC equipment energy consumption
- Major HVAC reconfigurations.

“It is useful to understand how far energy efficiency measures can go to reduce the use of energy in the built environment,” Glazer said. “It is also important to understand that many of the measures used in the project are widely available today.”

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After each measure was applied to each of the 272 building and climate combinations, if the energy consumption was reduced, it remained in the model. After all 30 measures were applied, the projected U.S. national weighted energy consumption for new buildings was nearly cut in half compared to Standard 90.1-2013.

The 30 energy efficiency measures modeled were:

- LED Exterior Lighting
- Highest Efficiency Office Equipment
- High Performance Lighting (LED)
- Shift from General to Task Illumination
- Optimal Daylighting Control
- Optimal Roof Insulation Level
- Optimal Choice of Vertical Fenestration
- External Light Shelves
- Daylighting Control by Fixture
- High Performance Fans
- High Performance Ducts to Reduce Static Pressure
- Demand Controlled Ventilation/CO2 Controls
- Multiple-Zone VAV System Ventilation Optimization
- Optimal Water/Air Cooling Coils
- Occupant Sensors for Air Handling Equipment
- Energy Recovery Ventilators
- Indirect Evaporative Cooling
- High Efficiency/Variable Speed Packaged DX Cooling
- High Efficiency Heat Pumps
- Ground Source Heat Pump
- High Efficiency and Variable Speed Chillers
- Heat Recovery from Chillers
- High Efficiency Boilers
- High Efficiency Building Transformers
- Chilled/Cooled Beam
- Dedicated Outside Air System with Heat Recovery
- Underfloor Air Distribution
- Hybrid/Mixed Mode Ventilation
- Radiant Heating and Cooling and DOAS
- Variable Refrigerant Flow Air Conditioning
ASHRAE Revises Commissioning Certification to Meet DOE Guidelines

ATLANTA – Revised requirements for ASHRAE’s certification program will provide earners with recognition by United States government agencies for contracts requiring commissioning services.

Due to take effect Sept. 15, 2016, ASHRAE’s commissioning certification program will validate competency against the Better Buildings Workforce Guidelines scheme requirements for the Building Commissioning Professional set forth by the National Institute of Building Sciences (NIBS) Commercial Workforce Credentialing Council (CWCC). The goal is to achieve U.S. Department of Energy (DOE) recognition by the summer of 2017 of services provided by these certificants. The ASHRAE certification will be known as the Building Commissioning Professional (BCxP).

Current ASHRAE certified Commissioning Process Management Professionals (CPMPs) will be able to renew against these new scheme requirements beginning in 2017. Those who do so will earn the ASHRAE BCxP certification designation valid for three years.

“This update will not only help ensure the continued validity and relevance of ASHRAE’s commissioning certification but also add value,” ASHRAE President David Underwood, who holds an ASHRAE commissioning certification, said. “DOE recognition of ASHRAE’s commissioning certificate will help ensure quality services are provided by these professionals as well as increase consumer confidence in the service provided and ultimately ensure the quality and performance of buildings.”

ASHRAE had a role in developing the Guidelines through its participation on the Board of Advisors for the NIBS’ CWCC. The CWCC works to establish voluntary national guidelines to improve the quality and consistency of commercial building workforce credentials.

The purpose of the Better Buildings Workforce Guidelines is to reduce the confusion and uncertainty around workforce credentialing, lower costs, and support better credentials, better workers and better buildings. The Guidelines set an industry-validated Job Task Analysis (JTA) for each of four, key energy-related jobs, building energy auditor, building commissioning professional, building operations professional and energy manager, as certification schemes and learning objectives for training programs.

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