We have a lot of events going on last month, National Engineer’s Week which we planned such an ASHRAE presentation for K-12 students at MOSI, our annual golf tournament on February 22, 2013 and the annual Engineer’s Week banquet also on the 22nd.

Upcoming Events:


April 12, 2013  FWC Shrimp Boil

April 18, 2013  ASHRAE Webcast “Assessing Building Energy Performance: From Principles to Practice” We will be presenting this at a joint location with USGBC at St. Pete College EPI Center, 13805 58th St. N. Upstairs, Room 2-312 in Clearwater (3) PDHs or (3) AIA Learning Units will be awarded to those who participate.

This will be a free event for USGBC & Florida West Coast Chapter Members.

In other exciting news, some of our Florida West Coast Family has recently been recognized by national.

Mr. Ross Montgomery – Recognized as ASHRAE Fellow

Mr. Al Sanchez – Exceptional Service Award

Mr. Ronald Caffrey – Distinguished Fifty-Year Member Award

We are the Florida West Coast Chapter appreciate the support each of you has provided ASHRAE throughout the years. When you see these members; be sure to congratulate and thank them for their efforts.

See you all on March 19th at the Columbia.

Jason Proctor, FWC President (2012-2013)
Meeting Notice  
Tuesday March 19, 2013

The Economic Impact of O&M Management

Operation of the mechanical systems in a building or complex is normally seen as an operational expense. Thus there is a focus on strategies that will minimize that expense. In reality, there is a relationship between the way maintenance is executed and managed and other significant costs faced by the facility that suggests that maintenance is an investment that can pay huge returns. This presentation will provide some examples of where decisions around the level of maintenance impact total ownership cost. It will also discuss the impact of both overall (policy level) maintenance decisions and specific maintenance strategies on system efficiency and life of components.

Our presenter holds the distinction of being a Fellow of ASHRAE, Member of its Technology Council, ASHRAE Distinguished Lecturer and Vice-chair/Standards Chair of Technical Committee 7.3 (Operations and Maintenance Management). He is ASHRAE representative to the Western HVAC Performance Alliance, member of the RIA Environmental Council, IICRC S520 Consensus Body, advisor to both NADCA and ACCA HVAC system hygiene standards and past President of IAQA.

We will be also having a 50/50 drawing that evening.

Presenter for the Evening  
Bob Baker, OPMP,FASHRAE  
BBJ Consulting Service  
Riverview, Florida

Columbia Restaurant  
2117 East 7th Ave  
Ybor City, Florida 33605
2013 ANNUAL ASHRAE SHRIMP BOIL
Come mingle with your ASHRAE friends and enjoy music, cold beverages and plenty of shrimp!

ASHRAE Florida West Coast Chapter

Friday, April 12, 2013 - 6:00-11:00 PM
Davis Islands Garden Club - 81 Columbia Drive, Tampa

$30.00 Individual Payment via PayPal or Check
Save $5 and purchase in advance!
(Includes all you can eat shrimp & chicken, unlimited beverages)

$35.00 Individual Payment Day of Event
(Includes all you can eat shrimp & chicken, unlimited beverages)

$150.00 Corporate Sponsorship
(Includes company name/logo on table display AND 2 Shrimp Boil entries)

REGISTRATION:
Attendee Name: ___________________________ Additional Attendees
Company Name: ___________________________
Mailing Address: ___________________________
City, State, Zip: ___________________________
Phone: ___________________________
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PAYMENT INFORMATION:
Type: ___________________________
@ Attendees ___________________________
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Pay online via PayPal @ http://www.ashrae-fwc.org or mail to:
ASHRAE-FWC Shrimp Boil, C/O Mike Costello, 8365 Gunn Highway, Tampa, FL 33646. Please make checks payable to ASHRAE-FWC.

For more information, email questions to mcostello@ces-engineers.com
Research Promotion (Recent Tax Law Updates)

Very early in the New Year, Congress passed tax legislation meant to avert the ‘fiscal cliff,’ at least from a tax standpoint. The American Taxpayer Relief Act of 2012 (yes, even though enacted in 2013!) is a long, complex bill with many different tax provisions. The good news is that if you support ASHRAE Foundation or other charities, the legislation leaves intact the income tax charitable deduction. It also continues the ability to deduct charitable gifts of long-term appreciated assets (real estate, stocks, and mutual fund shares) at full market value.

Here is a brief summary of a few parts of this new law that you should know about:

**Individual tax rates.** The lower Bush-era income tax and capital gains tax rates were made permanent for all but the highest income taxpayers. Those with taxable incomes over $400,000 ($450,000 for married taxpayers) will have a marginal income tax rate of 39.6% and a marginal capital gains tax rate of 20%. You can read more information about this provision by clicking this link on New Incentives.

**Medicare Surtax.** A new 3.8% surtax on net investment income, which includes realized capital gains, went into effect. Referred to by some as the Medicare surtax, this new tax went into effect on January 1, 2013 as part of the Affordable Care Act. It is imposed on top of other income taxes and kicks in when a taxpayer's modified adjusted gross income (MAGI) is above $250,000 for joint returns and surviving spouses, less than that for other filers.

**Itemized Deductions.** The law slightly reduces itemized deductions for high income taxpayers (by 3% for every dollar a taxpayer's income exceeds $250,000 and $300,000 for married taxpayers). Includes deductions for state taxes and mortgage interest as well as charitable deductions. You can read more about this provision by clicking this link to Deduction Reduction.

**Estate and Gift Tax.** The unprecedented exemption amount of $5M ($10M for married taxpayers), adjusted annually for inflation, was made permanent and portability remains. The marginal estate and gift tax rate increased from 35% to 40%.

We encourage you to talk with your tax advisor to learn more about the tax legislation and how it affects you.

Joe Souza, Research Promotion Chair (2012-2013)

2012-2013 ASHRAE FWC Sponsors and Donators

**Individual Endowment ($2500 and Up):**
- Mr. Philippe B Jean

**Individual Honor Roll ($100 and Up):**
- Mr. Mike Costello
- Mr. Isaac W Crimm, PE
- Mr. Jason C Proctor
- Mr. Joseph D Souza
- Mr. Jasper S Scott, Jr
- Mr. Jennifer A. Isenbeck, PE
- Mr. Thomas H. Williams

- Mr. Michael J Cowles
- Mr. Albert J Sanchez, PE
- Mr. Joseph R Cox
- Mr. Shawn M Jeffrey, Sr
- Mr. Jack J. Eunson
- Mr. Martin A. Vicari
- Mr. Daniel R. Rogers, PE

Mr. Ross D. Montgomery, PE
Dallas Recap: Advancing ASHRAE’s Policy and Technical

At ASHRAE’s Winter Conference last week in Dallas, opportunities for ASHRAE chapters, sections, and members to engage with policymakers in their respective jurisdictions came very much to the fore.

Perhaps most importantly, the new Grassroots Government Activities Committee (GGAC) kicked off in earnest with a training session for the Committee’s membership, which includes the incoming Regional Vice Chairs (RVCs) for Grassroots Government Activities, as well as the four-member committee executive (i.e., Chair, two Vice Chairs, Communications Coordinator). In this training, attendees discussed:

- How the GGAC fits in with the extant Society Member Services framework.
- Encouraging chapters, sections, and members to connect with policymakers in their area.
- Zeroing in on public policy concerns specific to chapters’ and sections’ respective areas.

At the end of this session, RVCs provided suggestions on what worked and what did not. These evaluations are under review and will help guide development of training provided to chapter and section leaders at upcoming Chapter Regional Conferences (CRCs).

Beyond this very targeted training, members participated in a dialogue with national energy efficiency leaders – including the Chair of the Standard 90.1 development committee (Steve Skalko) on ways in which U.S. state and federal energy policies manifest themselves in the day-to-day work of ASHRAE members. The discussion focused in large part on challenges and opportunities regarding up-to-date energy standards and codes and how ASHRAE members can best provide technical assistance and policy guidance to policymakers on energy efficiency-related measures.

Another way in which ASHRAE members may best impact public policy in their communities is by working with like-minded organizations in creating a “force multiplier” instead of acting alone on a policy “island.” ASHRAE and the National Association of State Energy Officials (NASEO) signed a Memorandum of Understanding (MOU), which formalized an ever-growing relationship and will serve to strengthen organizational ties between us. Furthermore, this signing emphasized the opportunities available to chapters and sections in working with NASEO members in their respective states. To that end, Dub Taylor, NASEO’s Past Chair and the Director of the Texas State Energy Conservation Office, participated in the RVC training and provided guidance on how ASHRAE may best work with his organization’s members to effect constructive change in energy efficiency policy.

“ASHRAE and NASEO share common interests in buildings, government affairs, energy codes and standards,” ASHRAE President Tom Watson said. “This MOU allows us to further those interests and share information on improving the energy efficiency of buildings and systems.”

If you were in Dallas – or even if you were not – you still can have a role in these activities. Perhaps the best way to get involved is to become a chapter or section GGAC Chair. In this role, you will be part of a larger community of international advocates and technical experts – and a vital link between ASHRAE members and government decision-makers in your community. To learn more about being a GGAC Chair, please contact Mark Wills, manager of State and Local Government Affairs, at mwills@ashrae.org or 202-833-1830.

How to Contribute to ASHRAE Made Easy

2012-2013 ASHRAE RESEARCH
Florida West Coast Chapter
This industry gives all of us our livelihood. ASHRAE’s research and educational programs are what keeps our industry and profession on the leading edge and assures its continued existence.

Contact: Joe Souza (813-308-2155 or joseph.souza@lge.com)
4208 Fox Ridge Blvd, Wesley Chapel, Florida 33543
ASHRAE STUDENT TRANSFER FORM

To receive your subscription to the ASHRAE Journal, please answer the following questions by entering the appropriate codes in the spaces provided.

Which best describes your firm?
1. Consulting Engineering
2. Architectural Services
3. Interior Design
4. Structural Engineering
5. Construction
6. Contractor
7. Heating, Ventilation & Air Conditioning
8. Industrial Facility
9. Commercial Facility
10. Government, Healthcare, Education
11. Finance
12. Utility
13. Manufacturer/Equipment
14. Manufacturer/Regulatory
15. Sales Engineering
16. Wholesaler/Distributor
17. Library
18. Technical, Professional or Trade Association
19. Other (Specify)

Which best describes your title?
A. President
B. Engineer
C. Designer
D. Associate
E. Owner
F. Vice-President
G. Vice-President or Director
H. Chief Engineer
I. Design Engineer
J. Project/Construction Engineer
K. Facility Engineer/Manager
L. Research/Development Engineer
M. Sales Engineer/Sales
N. Purchasing Agent
O. President/Chief Executive
P. Design/Project Manager
Q. Estimator
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S. Instructor/Professor
T. Student
U. Student (Specify)
V. Other (Specify)

Please select preferred method of contact? □ Current Address □ Permanent Address □ Business Address

What version of the ASHRAE Handbook would you like?
□ I-P (inches/pounds) □ SI (metric units) □ CD (I-P & SI)

Method of Payment
By completing the payment option below and submitting the student transfer program form, ASHRAE will charge the amount selected below to your credit card.

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ASHRAE Publishes Revised Filtration Standard Combines Standard 52.1 and 52.2

ATLANTA – A newly revised filtration standard from ASHRAE combines two standards setting the path to improve the technical accuracy of filter testing. ANSI/ASHRAE Standard 52.2-2012, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size, establishes a test procedure for evaluating the performance of air-cleaning devices as a function of particle size. The publication marks the first time Standard 52.2 has been published combining Standard 52.1, Gravimetric and Dust Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter.

“Combining the two standards provides a clean slate to begin significant changes regarding making the method much more technically accurate,” Robert Burkhead, chair of the Standard 52.2 committee, said. “Specifically, we have plans in motion to change the MERV (minimum efficiency reporting value) table ranges, narrow the ambient conditions allowed and further refine the instrumentation specifications – all in an effort to reduce the variability of the data product from the standard.” Standard 52.2 now incorporates the Standard 52.1 sections on arrestance and dust-holding capacity; and also adds a new informative appendix, Appendix J, that provides an optional method of conditioning a filter using fine potassium chloride particles to demonstrate efficiency loss that might be realized in field applications.

The standard addresses three air-cleaner performance characteristics of importance to users: the ability of the device to remove particles from the airstream, the total dust holding capacity with arrestance (weight efficiency) and its resistance to airflow, according to Burkhead.


To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

Sen. Lisa Murkowski Releases Energy Legislation Blueprint

U.S. Senator Lisa Murkowski (R-AK), the top Republican of the Senate Energy and Natural Resources Committee, issued a detailed plan for energy legislation in the 113th (current) Congress entitled “Energy 20/20: A Vision for America’s Energy Future.” This comprehensive, 123-page manifesto delves into energy production, conservation, technology, governance, environmental, and funding issues, laying out challenges and proposing solutions or next steps. The entire document, and in particular, the portion addressing building codes may be of interest to ASHRAE members:

“Building codes are and should be part of the discussion, but codes are only as good as their enforcement, which drops off when state and local budgets are squeezed by a weak economy,” said the report. “One thing is certain: efficiency and conservation across all sectors must be part of an all-of-the-above solution. By 2020, the federal government should shift to a wholesale efficiency approach that would integrate existing ‘silos’ of efficiency measures such as building codes, lighting, and appliances so that they work as a system to increase the overall efficiency of buildings.”

Proposed next steps in energy efficiency include commissioning a review by the U.S. Government Accountability Office (GAO) of current and past funding and performance of federal energy efficiency programs, with the possibility of proposing consolidated or streamlined programs as a result.
NIST Study Shows States Cut Costs, Reduce Emissions While Increasing Efficiency by Adopting Newer ASHRAE Commercial Building Energy Standards

A new 10-year study by the National Institute of Standards and Technology (NIST) reveals that by adopting the latest edition of ASHRAE Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, for commercial buildings, states can realize an average of over 22 percent in energy cost savings and reduce building-related carbon emissions by 20 percent – all while cutting building lifecycle costs by about 1 percent.

Alliance Commission on National Energy Efficiency Policy Issues Recommendations

Earlier this week, the Alliance to Save Energy’s (ASE) Alliance Commission on National Energy Efficiency Policy released its recommendations for doubling U.S. energy productivity by 2030.

Championed by Senator Mark Warner (D-VA), former New York Governor George Pataki, and industry leaders, the recommendations focus on activities such as increasing investments for energy efficiency projects in the building environment; strengthening and increasing compliance with building energy codes; and educating and engaging policymakers, consumers, and the business community on building energy efficiency through building energy disclosure, ratings, and benchmarking.

Job Opportunity: IC Mechanical

IC Mechanical, Inc. is a Design/Build Mechanical in search of a Mechanical Engineer. Job responsibilities include:

- HVAC Design Knowledge/Experience
- Perform engineering investigation site visits
- Perform heat load calculations and material/equipment selections
- Communicate with equipment/material vendors for technical support
- Able to generate written engineering reports and studies
- Software proficiency with AutoCAD, Revit and Microsoft Office programs
- Ability to efficiently design piping, ductwork and equipment utilizing AutoCAD
- Excellent communication skills with a self-starter work ethic
- Attention to detail, timeliness of work, professional appearance and conduct

Please forward a resume to:
IC Mechanical, Inc., PO Box 1685, Oldsmar, FL 34677
813.818.0839 fax or to jwithrow@icengineeringsolutions.com

Job Opportunity: Engineering Matrix

Building Systems Engineering responsibilities would include:

Mechanical Engineering - HVAC systems design including waterside and airside equipment, DDC controls.
Electrical Engineering - Building Power distribution, Interior lighting design, Site lighting design.

Engineering Degree or a minimum of 5 years experience. Knowledge of AutoCAD and Revit helpful.

Salary Negotiable.

Please send Resume to Heather Schiller at heathers@engmtx.com
Keeping it Cool with ASHRAE Volume XI, Issue 5

FWC ASHRAE Sustainability Committee Wants YOU!

Are you interested in learning more about Building Modeling?
What kinds of tips can your peers offer?
What software and tools can be used, what is your favorite? What is free? What is required?
What is ASHRAE 90.1 Appendix G and where are Standards 189.1 and 90.1 going?

We would like to conduct a focus group just for our Florida West Coast members.
Join us for an hour over lunch so we can discover ways to help YOU!
We are looking at dates in January.

Email: Jennifer Isenbeck, PE, LEED BD+C, CPMP jisenbeck@ut.edu (FWC Sustainability Chair)

Where can you find FREE resources on Sustainability?

For ASHRAE members only:


ASHRAE FREE Webcast: April 18, 2013 “Assessing Building Energy Performance: From Practice to Principals”

Other FREE Resources and Great Case Studies and Articles:

High Performance Buildings Magazine: http://www.hpbmagazine.org/
BIM Guide: http://www.ashrae.org/resources--publications/free-resources/free-publications
The Living Building Challenge: a Philosophy, Advocacy Platform and Certification Program that promotes a Visionary Path to a Restorative Future. See: https://ilbi.org/lbc

How ASHRAE Volunteers:

Read ASHRAE President Tom Watson’s letter and promotion of Sustainability as this year’s theme: Broadening ASHRAE’s Horizons, http://www.ashrae.org/society-groups/volunteer/ashrae-community-sustainability-projects

Source: U.S. Energy Information Administration, State Energy Data System 2010
## ASHRAE Learning Institute

### 2 Ways to Register

**Internet:** [www.ashrae.org/dallascourses](http://www.ashrae.org/dallascourses)

**Phone:** Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

### Full-Day Professional Development Seminars

**$485/$335 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Date</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>The Commissioning Process in New &amp; Existing Buildings</td>
<td>Saturday, Jan 26</td>
<td>8:00 a.m. to 3:00 p.m.</td>
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<tr>
<td>Data Center Energy Efficiency</td>
<td>Saturday, Jan 26</td>
<td>8:00 a.m. to 3:00 p.m.</td>
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<tr>
<td>Healthcare Facilities: Best Practice Design &amp; Applications</td>
<td>Saturday, Jan 26</td>
<td>8:00 a.m. to 3:00 p.m.</td>
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<tr>
<td>Complying with Standard 90.1-2010</td>
<td>Tuesday, Jan 29</td>
<td>9:00 a.m. to 4:00 p.m.</td>
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<tr>
<td>Energy Modeling Best Practices and Applications: HVAC/Thermal</td>
<td>Tuesday, Jan 29</td>
<td>9:00 a.m. to 4:00 p.m.</td>
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</table>

### Half-Day Short Courses

**$153/$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs**

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<thead>
<tr>
<th>Topic</th>
<th>Date</th>
<th>Time</th>
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</thead>
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<tr>
<td>Air-to-Air Energy Recovery Fundamentals</td>
<td>Sunday, Jan 27</td>
<td>2:00 p.m. to 5:00 p.m.</td>
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<tr>
<td>Humidity Control: Applications, Control Levels and Mold Avoidance</td>
<td>Sunday, Jan 27</td>
<td>2:00 p.m. to 5:00 p.m.</td>
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<tr>
<td>Air-to-Air Energy Recovery Applications: Best Practices</td>
<td>Monday, Jan 28</td>
<td>8:30 a.m. to 11:30 a.m.</td>
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<tr>
<td>Application of Standard 62.1-2010: Multiple Spaces Equations &amp; Spreadsheet</td>
<td>Monday, Jan 28</td>
<td>8:30 a.m. to 11:30 a.m.</td>
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<tr>
<td>Combined Heat &amp; Power: Design through Operations</td>
<td>Monday, Jan 28</td>
<td>8:30 a.m. to 11:30 a.m.</td>
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<tr>
<td>Understanding Standard 189.1-2011 for High-Performance Green Buildings</td>
<td>Monday, Jan 28</td>
<td>2:45 p.m. to 5:45 p.m.</td>
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<td>Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems</td>
<td>Monday, Jan 28</td>
<td>2:45 p.m. to 5:45 p.m.</td>
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<td>Commissioning Process &amp; Guideline 0</td>
<td>Monday, Jan 28</td>
<td>2:45 p.m. to 5:45 p.m.</td>
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<tr>
<td>Evaluating the Performance of LEED-Certified Buildings</td>
<td>Monday, Jan 28</td>
<td>2:45 p.m. to 5:45 p.m.</td>
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<tr>
<td>Optimization of HVAC Systems &amp; Components: Techniques &amp; Real-World Examples</td>
<td>Tuesday, Jan 29</td>
<td>9:00 a.m. to 12:00 p.m.</td>
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<tr>
<td>Energy Management in New and Existing Buildings</td>
<td>Tuesday, Jan 29</td>
<td>9:00 a.m. to 12:00 p.m.</td>
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<tr>
<td>Avoiding IAQ Problems</td>
<td>Tuesday, Jan 29</td>
<td>9:00 a.m. to 12:00 p.m.</td>
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<tr>
<td>Designing Toward Net Zero Energy Commercial Buildings</td>
<td>Tuesday, Jan 29</td>
<td>1:00 p.m. to 4:00 p.m.</td>
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<tr>
<td>Understanding &amp; Designing Dedicated Outdoor Air Systems</td>
<td>Tuesday, Jan 29</td>
<td>1:00 p.m. to 4:00 p.m.</td>
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<tr>
<td>Laboratory Design: The Basics and Beyond</td>
<td>Tuesday, Jan 29</td>
<td>1:00 p.m. to 4:00 p.m.</td>
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### HVAC Design Training

**Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013**

#### HVAC Design: Level I - Essentials

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

#### HVAC Design: Level II - Applications

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant, and BAS controls.

Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register
Assessing Building Energy Performance: 
From Principles to Practice

April 18, 2013 | 1:00 PM-4:00 PM EDT

This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents.

How to Participate
• You may register to view the webcast on your PC
• You may host a webcast viewing site for your colleagues
• View the webcast at a site

PDH Credits
Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units (LUs) may be awarded to viewers who complete the “Participant Reaction Form” by May 2, 2013.

For more information about the program, presenters, continuing education credits, sponsorships, and ABEP resources, please visit us at www.ashrae.org/ABEPwebcast OR scan this tag with your smart phone.
Past Presidents

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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<tr>
<td>1957-58</td>
<td>Karl K. Hickman</td>
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<td>1958-59</td>
<td>Sam F. Graziano</td>
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<td>1959-60</td>
<td>Julian Johnson</td>
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<td>1960-61</td>
<td>Ken Whittington</td>
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<td>Lamar King/Leland Menard</td>
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<td>William A. Smith</td>
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<td>Mark Chambers</td>
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<td>Charles D. Jacobs</td>
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<td>Ray Rinke</td>
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<td>James H. Carroll, Jr.</td>
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<td>S. Michael Tappouni</td>
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<td>1981-82</td>
<td>Alberto J. Sanchez</td>
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<td>1982-83</td>
<td>James L. Repp</td>
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<td>Rodney C. Thomas</td>
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<td>Charles E. Langbein</td>
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<td>Thomas H. Williams</td>
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<td>1986-87</td>
<td>Caire A. Boe</td>
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<td>1987-88</td>
<td>Frank Grandinetti</td>
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<td>1988-89</td>
<td>Carl B. Lawson</td>
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<td>Robert M. Little</td>
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<td>Edward C. Spivey</td>
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<td>1994-95</td>
<td>William M. Slade</td>
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<tr>
<td>1995-96</td>
<td>Juan A. Soler</td>
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<td>Timothy J. Citek</td>
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<td>Mark Smith</td>
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<td>1998-99</td>
<td>Joseph Griner, III</td>
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<td>Colleen Smith</td>
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<td>2000-01</td>
<td>John W. Wells, III</td>
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<td>2001-02</td>
<td>Gary Stendlund</td>
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<td>Bill Wright</td>
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<td>Don Crosby</td>
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<td>2004-05</td>
<td>Ted S. Hansen, Sr.</td>
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<td>2005-06</td>
<td>P.J. Crespo</td>
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<td>2006-07</td>
<td>Dan Herrera</td>
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<td>2007-08</td>
<td>Jennifer Isenbeck</td>
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<td>2008-09</td>
<td>Debbie Horsey</td>
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<td>2009-10</td>
<td>Drew Elsberry</td>
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<td>2010-11</td>
<td>Jeff Ross</td>
</tr>
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<td>2011-12</td>
<td>Shawn Jeffrey, Sr.</td>
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</table>

Upcoming FWC Events

**March 19, 2013**
Monthly Dinner/Technical Meeting,
Energy Conservation in Existing Buildings

**April 12, 2013**
FCWC Shrimp Boil

**April 18, 2013**
ASHRAE Webcast
“Assessing Building Energy Performance:
From Principles to Practice”

We will be presenting this at a joint location with USGBC at
St. Pete College EPI Center,
13805 58th St. N. Upstairs,
Room 2-312 in Clearwater

(3) PDHs or (3) AIA Learning Units will be awarded to those
who participate.