

ASSOCIATION OF ENERGY ENGINEERS - NEW ENGLAND CHAPTER



NEW ENGLAND ENERGY NEWS

November 2009 Newsletter

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www.aeenewengland.org

ASHRAE Joint Meeting Are High Performance Buildings Really Performing? November 18, 2009

It is possible today, at an incremental construction cost of 2-10%, to create buildings which operate at 25, 50, and even 75% less energy than Standard 90.1-2004. A few high profile buildings touted to be designed as low-energy have been extensively metered and studied. This presentation provides an overview of the process, performance, technologies, and lessons learned for these recent 'high performance' buildings which range in measured energy savings of 25-70% over Standard 90.1 and opportunities for even greater savings in the future—achieving cost-effective net-zero energy commercial buildings by 2025.

Speaker:

Drury Crawley, PhD
Team Leader, Commercial Buildings
U S Department of Energy
Washington, DC

Mr. Crawley leads the U.S. Department of Energy's Building Technologies Program team working to achieve cost-effective net-zero energy commercial buildings by 2025. He is also responsible for managing the DOE's building energy software tools development activities including EnergyPlus (winner of an R&D 100 Award in 2003), Energy Design Plugin for Google SketchUp, Energy-10, DOE-2, and SPARK, among others.

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2009 Chapter Officers

President:
Ron Gillooly
National Grid
508-922-6835
ronald.gillooly@us.ngrid.com

Vice President
Brian Crafts
FMC Technologies
978-649-0145
bcrafts@fmc-technologies.com

Treasurer:
Arthur Orenberg
A. Orenberg Associates
781-862-1771
arthur1771@aol.com

Secretary:
Robert A. Di Giandomenico
NSTAR Gas
339-987-8086
robert.digiandomenico@nstar.com

Newsletter Editor:
Roger Goldman
Worcester Housing Authority
508-635-3312
energyguy@verizon.net

Board of Directors:**Jim Armstrong**

Siemens Building Technologies
781-774-8360
jarmstrong@siemens.com

Fran Boucher*

National Grid, 508-421-7299
francis.boucher@us.ngrid.com

Andrew Coffin

NSTAR Electric & Gas, 781-441-8166
andrew.coffin@nstar.com

Richard J. Costello*

(Past President AEE-National)
Acela Energy Group, Inc., 508-530-3040
richard.costello@acelaenergy.com

Stephen M. Di Giacomo*

EMA, 508-533-1128
steve@ema-boston.com

James Donnelly*

Siemens Building Technologies
781-774-8314
jim.donnelly@siemens.com

Joseph Hall*

National Grid, 508-482-1238
joseph.hall@us.ngrid.com

Christopher F. Halpin

Celtic Energy, Inc., 860-633-4914
chris@celticenergy.com

Nelson Medeiros

NSTAR Electric, 781-441-8703
nelson.medeiros@nstar.com

Stephen Murphy - SUEZ, 617-261-8911

stephen.murphy@suezenergyna.com

Stephen Nicholas

Air Industries, Inc., 800-648-8363
snicholas@airinds.com

Sam Nutter

Conservation Services Group
508-365-3068
Samuel.Nutter@csggrp.com

Dinesh Patel

National Grid, 781-907-2250
Dinesh.patel@us.ngrid.com

Gregg Snyder

BCM Controls Corp., 781-933-8878 ext. 124
snyderg@bcmcontrols.com

With more than 30 years of experience in buildings energy efficiency, renewable energy, and sustainability, he has worked in government research and standards development organizations, as well as building design and consulting companies. A registered architect, he is currently completing his PhD in Mechanical Engineering on the topic of building simulation as a policy tool at the University of Strathclyde in Glasgow, Scotland.

Mr. Crawley is active in ASHRAE (Chair of Technical Committee 2.8 Building Environmental Impacts and Sustainability, Chair of Standard 169 Weather Data for Building Design Standards, Member of SSPC 189.1P Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, former Member of the Research Administration Committee, and former Chair of TC 4.2, 4.7, and 7.1). He received an ASHRAE Distinguished Service award in 2003 and a 1999 Symposium Best Paper Award for "Which Weather Data Should You Use for Energy Simulations of Commercial Buildings?"

Mr. Crawley is the US-representative and Vice Chair of the Executive Committee of the International Energy Agency Solar Heating and Cooling Programme, and is active in AIA, IBPSA, USGBC (member of the Research Committee and the Energy & Atmosphere TAG), and serves on the editorial boards of three international Journals. He has written more than 100 papers and articles and made more than 175 presentations on energy efficiency, sustainability, and renewable energy topics throughout the world.

Please register and pay on-line using PayPal at <http://aenewengland.org>, or email to: info@aenewengland.org.

**** \$35.00 per person ** Special Rate for this Meeting Only**
Ask about our special rate for the unemployed job hunter

Doubletree Guest Suites Hotel
550 Winter Street - Exit 27B off Route 128 (I-95)
Waltham, MA

4:30 Open AEE Board Meeting *

5:30 Registration and Networking

6:30 Dinner and Presentation

8:30 Close

*** Remember our Board of Directors meetings are open to anyone that is interested in attending. They begin at 4:30 p.m. before our regular meetings unless otherwise noted. We welcome new faces and ideas.**

Disclaimer:

The New England Chapter or the Association of Energy Engineers, AEE-NE, has not investigated and expressly disclaims any duty to investigate, any product, service, process, procedure, design, or the like which may be presented by any of the presenters or Chapter Officers at any AEE-NE meeting or function. The presentation of any technical data or editorial material at these events does not constitute endorsement, warranty or guaranty by AEE-NE of any product, service, process, procedure, design of the like. AEE-NE does not warrant that any of the information presented at these events is free from errors. The entire risk of the use of any information presented is assumed by the user.

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Johnson Controls, 781-246-5500
kathleen.stanley@jci.com

Daniel Wheatley*

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781-729-3790 dan_wheatley@msn.com

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Chapter President

Greetings – November 2009

Two years ago when we hosted our last “Career Night” there were probably more organizations looking to fill positions than there were qualified candidates available. Last month we had at least five firms in attendance that were actively looking for candidates to fill positions with approximately 15-20 people actively looking for a new position! As we have seen over the past year the dynamic in the job market can change very quickly. The good news is that the outlook for those in the Energy and Renewable fields remains strong.

Fran Boucher did an outstanding job of lining up speakers to provide an excellent program that provided us insight on the current Energy and Renewable job markets and latest trends in recruiting. If you are looking for a new position, or simply want to enhance your market value, you may want to consider the following trends and suggestions provided by our speakers:

- State Energy Efficiency budgets are increasing and so is the demand for energy engineers. The demand for CEM’s is increasing. Having your P.E. is a major advantage!
 - The Solar job market is especially strong throughout the country including New England
 - The demand for Commissioning Engineers and LEED certified professionals continues to rise as more customers realize the benefits of Retro commissioning their facilities while seeking LEED certification
 - 50% of engineering professionals typically find positions through referrals
 - Cover letters are especially important and should be customized for the position you are applying for. Consideration should be given to customizing your resume for the relevant position too
 - **LinkedIn** and other social and professional networking sites are playing a bigger role in filling vacant positions. **AEE NE now has a group on LinkedIn with nearly 70 members enrolled within one month**
- Video resumes and cover letters appear to be the next trend in matching up qualified candidates for vacant positions.

Our next meeting is scheduled for **Wednesday November 18th and is our annual joint meeting with ASHRAE**. This year ASHRAE will be hosting the meeting. The meeting topic will review “High Performance Buildings” and whether or not they are really performing up to expectations. This meeting will be a great opportunity to network with our peers and learn about the performance of state-of-the-art buildings.

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Dan Wheatley, *Energy Manager*
781-729-3760

FMC Technologies, Inc.

Brian Crafts, *President*
978-528-4630

Save-the-Date - Chapter Sponsor Night**Wednesday, December 9, 2009**

Invitations will be emailed to Chapter Sponsors.

Program details will be included in the November newsletter.

Please make sure your 2009 Chapter Sponsorship is in good standing.

Contact Brian Crafts @ bcrafts@fmc-technologies.com if you have any questions

Summary of our October AEE Meeting

Last month the Association of Engineers held a meeting on the topic of Careers. It was very informative and provided a positive outlook. The first quarter or 2009 there was actually a spike up in hiring for positions related to energy efficiency. While it settled over the summer, it is starting to pick up again. At the meeting at least six local companies indicated they had current opening for energy engineers who had strong analytical skills. In several cases there were multiple opportunities available. The majority of this is retrofit work, rather than new construction.

One company capitalized by a very large nationally recognized firm, who has a local office for their division headquarters indicated a business plan that calls for a several fold expansion of their work force over the next few years. A primary message was that these firms are very focused on individuals who can very clearly communicate their results both verbally and on paper, and it was suggested that those with these talents were not only most likely to be hired but were also likely to receive strong offers. An example was given of an energy engineer with 10 years experience being hired with a salary in the mid 90's. Another increasingly avenue for employers is to hire Temp- to -Perm. These start by trying out the fit on a contract basis with positions growing into full time opportunities. Several placement firms in the area of active opportunities and are looking to fill in the field.

Also fueling the fire, the state of New York announced last week that starting in January of 2010 they are going to increase funding for commercial and industrial efficiency programs by over \$20 million dollars per year, while Mass and RI utilities combined are already scheduled to increase their funding in 2010 by well over \$30 million dollars next year. Clearly there is opportunity for AEE members in this area.

Fran Boucher**Network with AEE New England chapter members Online!****Please visit our group at www.linkedin.com****www.linkedin.com/groups?gid=2280514**

GDS Associates

Scott Albert
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603-656-0336

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Jeff Myrdek, CEM, CBEP, Director of Construction
617-428-8690

Johnson Controls

Kathy Stanley, Account Executive
781-246-5500

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508-720-1594

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Fran Boucher, Senior Energy Engineer
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Emre Schweighoffer, President
781-255-8811 ext. 11

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Project Manager, Technical Gas Sales
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Job Postings

BCM Controls (a 65-employee specialty contractor) designs, installs and services integrated Building Automation Systems (BAS) in the greater Boston area. BCM consistently delivers optimal customer based integrated systems that control all aspects of building operations such as HVAC, Lighting, Access Control, Security and Video/CCTV.

We are looking for an **Energy Engineer** to contribute to the revenue growth and customer satisfaction of BCM's Energy offerings. The Energy Engineer gathers technical energy related information, evaluates opportunities, provides pre-sales technical support, quantifies cost impacts and develops optimum energy solutions for commercial and industrial applications.

Please respond directly to jobs@bcmcontrols.com

Controls Sales Manager - NYC Territory - Acuity Brands Controls

Acuity Brands Controls is currently searching for a Controls Sales Manager for their NYC Territory. Qualifications include an EE degree and the ability to make sales presentations to the NYC engineering community.

Contact Bob Mirza
Acuity Brands Controls - CSD
401-439-6617

AEE New England Energy Project Awards

Have you or your co workers developed an energy project that you think may be worthy of an award? Consider submitting your project for one of the "AEE New England Energy Project Awards". The project must be completed prior to January 1st of 2010. Details of the application will be published in the December Newsletter.

RLW Analytics, Inc.
Daniel J. Barbieri, P.E., C.E.M.
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860-346-5001 x201

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Build Boston

AEE NE in partnership with the Boston Society of Architects is pleased to announce ***Build Boston at the Seaport World Trade Center in Boston November 18-20, 2009***. New this year, Build Boston features an Energy Pavilion with 70 of the latest energy-related products, services and technologies including our AEE NE booth.

- Enjoy the opportunity to attend one of the 240 workshops and other professional-development opportunities.
- Take advantage of 20 workshop tracks covering all aspects of the design and construction industry. On the
- Explore Boston-area design and construction marvels during one of the 16 tour programs.
- Earn continuing-education credits and AIA LUs in three short days.

FREE admission to the exhibit hall and workshop discounts when you register by October 23 ! Visit the BSA website (www.buildboston.com) to register and request the 60-page compete brochure. Volunteer to work for a few hours and earn free admission to the workshops (\$95 value). Call Joe Hall (508-482-1238) to volunteer or with questions.

Download a pdf of the attendee brochure at

http://www.buildboston.com/Document2009/BB2009_AttendeePages_8_13_09.pdf

2009-2010 AEE New England Chapter Future Meeting Topics

(subject to change)

Date	Topic	Program Manager
Nov. 18th	ASHRAE Joint Meeting	ASHRAE
Dec. 9th	Sponsor Night/ Scholarships	Brian Crafts, Ron Gillooly, Dan Wheatley
Jan. 6th	Energy Outlook Forum	Rich Costello
Feb. 3rd	Utility/Awards Night	Jim Armstrong, Nelson Medeiros
Mar. 3rd	Control System Integration	Gregg Snyder, Brian Crafts
Apr. 7th	Emerging Technologies	Gregg Snyder, Dan Wheatley
May 5th	Site Tour w/ Topic - Bud- weiser	Rich Costello
Jun. - TBD	Golf Outing	Joe Hall

Upcoming Events From Outside Organizations

(subject to change)

ASHRAE Boston: Joint ASHRAE/AEE Meeting

November 18, 2009, 5:00 – 8:15 PM **Waltham, MA**

Topic: Are High Performance Buildings Really Performing? Speaker: Drury Crawley, Ph.D

Location: Doubletree Guest Suites Hotel, 550 Winter St.

Contact: Dan Diorio diorioda@bc.edu

Cost: \$45 (if not ASHRAE member)

Website: <http://www.ashraeboston.org/chapterupdates/calendar.html>

AEE #33 Boston: Lahey Clinic

November 19, 2009, 5:45 – 9:00 PM **Burlington, MA**

Topic: TBD **Speaker:** TBD

Location: 41 Mall Road

Contact: Dan Mahr 508-366-1449, ext. 214 dmahr@aalanco.com

Cost: \$30 (if not AFE member)

AEE #37 128 Beltway: EnerNOC

November 17, 2009, 5:45 – 9:00 PM **Boston, MA**

Topic: NE Energy & Demand Response **Speaker:** EnerNoc Staff

Location: 101 Federal Street, Suite 1100

Contact: Jeff Myrdek 617-428-8690 jmyrdek@h20appliedtech.com

Cost: \$35 (if not AFE member)

AEE #74: College of the Holy Cross Tour

November 19, 2009, 5:30 PM 8:30 PM **Worcester, MA**

Topic: OSHA Safety Presentation

Location: 1 College St.

Contact: Tom Wall 508-793-8877 twall@clarku.edu Cost: \$35 (if not AFE member)

The Green Roundtable

<http://www.nexusboston.com/>

Massachusetts Technology Collaborative (MTC)

Programs for Business & Individuals

<http://masstech.org/>

Massachusetts Energy Efficiency Partnership (MEEP)

Fundamentals of Compressed Air Systems

<http://www.maeep.org/>

25th Annual Build Boston

November 18-20, 2009, 12 PM – 6 PM (Wed.), 12 PM – 6 PM (Thu.), 9 AM – 1 PM (Fri.)

Location: Seaport World Trade Center, 200 Seaport Blvd., Boston, MA

Cost: \$0-\$700

Online Registration: <http://www.buildboston.com/register>