

April 2012 Volume 47, Issue 7

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COSTS

Fees are based on online reservations and prepayment.

Philadelphia Chapter Members: \$30

ASHRAE Members -Non-Chapter Members: \$40

Non- ASHRAE Member: \$40

Young Engineers (35 & under): \$25

Students: FREE

SEMINAR COST: \$95



QUAKER CITY CLIMATE

Thursday, April 19, 2012

ASHRAE Distinguished Lecturer Dr. Drury Crawley, PhD Bentley Systems, Inc.

1:30 PM to 4:30 PM Seminar

"Energy Modeling Techniques"

3 PDH's - See page 8 for details.

Click here to Register for the Seminar

5:00 PM to 6:00 PM Social Hour/Cash Bar 6:00 PM to 7:00 PM Dinner 7:00 PM to 8:00 PM Presentation

"Getting from Advanced Energy Design Guides to Zero-Energy Buildings"

Click here to Register for the Dinner/Presentation

LOCATION

Holiday Inn Historic District

400 Arch Street Philadelphia, PA 19106 215-923-8660

Please note that the Holiday Inn no longer provides free parking in the attached parking garage.

Nearby parking can be found using the Parking Authority's online locator service at http://philapark.org/locator/. The rate at the Holiday Inn garage is \$7.00 per hour.

For Directions: click here

PRESENTATION SUMMARY

Buildings account for nearly 40% of U.S. energy use. ASHRAE, IESNA, USGBC, AIA, and DOE have collaborated on a series of Advanced Energy Design Guides (AEDGs) for significant energy savings beyond Standard 90.1. The guides provide prescriptive packages for each climate zone to reach the energy savings goals of 30% and 50%. AEDGs for 50% savings in four building types were completed in 2012. This presentation provides an overview of the AEDG process as well as examples of packages and case studies from the 50% guides. Also presented are examples of today's zero-energy buildings and the key systems and technologies they employed.

2011- 2012

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PRESIDENT'S MESSAGE

As with any other science or technology field, the field of HVAC is always changing. New products, new technologies and new methodologies are constantly being introduced. In order to stay updated, the HVAC practitioner has to avidly read and evaluate what is new in the industry. This month we are providing two opportunities to stay on top of what is new with energy and sustainability. We have Dru Crawley, PhD, Director of Building Performance Products at Bentley Systems, pitching a double header for us on April 19th at the Holiday Inn Historic District. The matinee will be "Energy Modeling Techniques" which is billed as a three hour seminar. The evening dinner event will have Dru discussing "Getting From Advanced Energy Design Guides to Zero-Energy Buildings". Dru will show you how some ideas have worked (or not worked) for others, complemented by some knowledgeable insightful opinions. This is a strong lineup and I would encourage your participation in one or both events. Remember, if you get one decent idea per event that applies to your own professional situation, for use now or in the future, then your time has been well spent.

Bob Finkboner
Philadelphia Chapter President
c021@ashrae.net

April Speaker Bio

ASHRAE Distinguished Lecturer
Dr. Drury Crawley, PhD of Bentley Systems, Inc.

Dr. Crawley leads the team developing a new generation of building performance software for energy and sustainability at Bentley Systems, including AECOsim Energy Simulator, AECOsim Compliance Manager, Open Plant with HVAC, Hevacomp Simulator, Hevacomp Mechanical Designer, and Bentley Tas. Prior to joining Bentley in 2010, Dr. Crawley lead the U S Department of Energy's Commercial Buildings Initiative (working to create low- and zero-energy buildings nationwide) and development of EnergyPlus.

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 software, design and consulting companies. A registered architect, he also has a PhD in Mechanical Engineering on the topic of building simulation as a policy tool from the University of Strathclyde in Glasgow, Scotland.

He is active in ASHRAE (Chair of Standard 169 Weather Data for Building Design Standards, member of SSPC 189.1 Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, member of SSPC 140 Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs, former member of the Technical Activities and Research Administration Committees, and former chair of TCs 2.8, 4.2, 4.7, and 7.1). He was made an ASHRAE Fellow in 2009, received ASHRAE Research Administration Committee's Service to ASHRAE Research Award in January 2012, the 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?"

Coming Soon! The New 2012-2013 Directory!

If you have not done so yet and are looking for ways to enhance your marketing, there is still space available to advertise your company. We feature both a section for engineers and a section for Manufacturers Representatives. Please contact Hope Silverman for additional information at hope@mmco1.com or 610-971-2169.

Chapter Technology Award Competition 2012

The Technology Award Program recognizes members for innovative designs, communicate that technology to other members, and highlight achievements to other professionals.

The Chapter Technology Transfer Committee will be accepting applications for the Chapter Level competition in **Spring 2012** in the following categories:

- Commercial Buildings, New and Existing
- Institutional Buildings, New and Existing
- Health Care Facilities, New and Existing
- Industrial Facilities or Processes, New and Existing
- Public Assembly Facilities, New and Existing
- Residential Buildings, New and Existing (Single Family and Multi-Family)
- Alternative or Renewable Energy Use

Entries will be judged on energy efficiency, indoor air quality and thermal comfort, innovation, operation and maintenance, cost effectiveness, environmental impact and quality of presentation.

The process for the ASHRAE Technology Awards starts right here at the Chapter level. Chapter Competition winners will be judged in the Regional Technology Award Competition. Regional winners will then submit a long form application for the Society Technology Award Competition.

Winners of the Society Competition will also be featured in the ASHRAE Journal.

Additional information is available at ashrae.org/publications/detail/14704 or by contacting Mark Maguire, the Philadelphia Chapter Technology Transfer Chair (c021bog5@ashrae.net).

Building Energy Assessment Professional (BEAP) Certification

With the growing emphasis on energy consumption reduction and cost savings, there is a recognized need for credible information to help in the assessment of energy use in buildings. The BEAP program certifies individuals' ability to audit and analyze residential, commercial and industrial buildings including determining project scope, collecting data, analyzing building performance, interpreting results, evaluating alternatives, submitting recommendations for energy conservation measures and assisting with implementation of these recommendations.

The BEAP certification complements ASHRAE's Building Energy Quotient (bEQ) program as well as its BEMP certification. Together, the programs provide a valuable toolkit for evaluation and reduction of building energy use. ASHRAE has developed the BEAP certification program in collaboration with representatives of the bEQ program, the Illuminating Engineers Society (IES), the National Institute of Building Sciences (NIBS), the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) and the Testing, Adjusting and Balancing Bureau (TABB).

The exam is available on computer at proctored testing centers through Applied Measurement Professionals, Inc., which has testing centers in Center City Philadelphia, Wilmington, DE and Robbinsville, NJ.

This is in addition to the other five certification programs currently available:

- Building Energy Modeling Professional;
- · Healthcare Facility Design Professional;
- High-Performance Building Design Professional;
- Commissioning Process Management Professional;
- Operations and Performance Management Professional.

Additional information is available on the ASHRAE Website at www.ashrae.org/certification. Or you can email the Philadelphia Chapter Technology Transfer Chair (Mark Maguire) at co21cttc@ashrae.net.

ASHRAE Fellowship with Placement at DOE

ASHRAE is sponsoring a 12- to 18-month fellowship program with placement at the Department of Energy in the Office of Building Technologies, Building Energy Codes Program in Washington, DC. This fellowship provides the traditional ASHRAE Member with exposure to the area of public policy. This assignment will enable a selected ASHRAE member to assist DOE in one of the following code deployment activities:

- 1. Code Compliance;
- 2. Residential Duct Test Training;
- 3. Assessment of the Impact of Updating State Energy Codes; or
- 4. Advanced Energy Code Training.

Federal government fellowships provide a valuable public service to the nation while, at the same time, providing engineers and scientists with a unique opportunity to participate directly in the policy-making process. This is an exciting, rewarding, and educational period in their professional careers. This enriching experience enables ASHRAE/DOE Fellows to bring back to their employers an insider's perspective on government decision -making that can contribute significantly to the mission and vision of the organization.

If you know of any members in your regions and/or chapters who might be a good fit for this opportunity, please have them contact Doug Read, the ASHRAE Director of Government Affairs.

The fellowship requires living in or around Washington, DC for a period of 12 months, with the possibility of an extension for a second year. The fellowship will require reporting to DOE offices on a daily basis (i.e., a 40-hour work week).

The individual selected must be a U.S. citizen.

A stipend of \$74,872 gross (i.e., before taxes, etc.) will be provided by DOE. Health insurance reimbursement will be provided by DOE up to \$500 per month, with any monthly costs over that being paid for by the fellow.

Ideal candidates will have a technical background, with 3-10 years experience in the building industry, as this is an early career development opportunity.

The fellowship can begin as soon as a suitable candidate is selected by DOE.



March Meeting Photo

ASHRAE Philadelphia Chapter President, Bob Finkboner (right), presents the March meeting speaker, Dr. Kishor Khankari, with a Liberty Bell to thank him for his presentation on "Application of Computational Fluid Dynamics for Built Environment."

PHILADELPHIA CHAPTER PROGRAMS CALENDAR 2011-2012

Date	Location	Topic	Theme	Joint Meeting
4/19/2012 1:30 PM	Holiday Inn	Seminar Energy Modeling Techniques (see page 8 for details)		
4/19/2012 5:00 PM	Holiday Inn	Getting from Advanced Energy Design Guides To Zero-Energy Buildings (see page 1 for details)	Refrigeration	RSES
5/3/2012	University of Pennsylvania	Module VII Chiller Plant Tour (see details below)		
5/17/2012	Holiday Inn	Dealing with Dampers - Design and Code Issues presented by Mark Jelinske of Cator-Ruma Associates	Past President's Night	
5/23/2012		YEA Social at the Phillies		
6/1/2012	Northampton Valley CC	Golf Outing (see page 9 for details)		

Program calendar is subject to change. Please refer to <u>ASHRAE Philadelphia Website</u> for up to date information.

University of Pennsylvania Module VII Chiller Plant Tour

Thursday, May 3, 2012 2:00 PM to 4:00 PM

3331 River Road
Philadelphia, Pennsylvania 19104
(intersection of University Avenue and River Fields Drive)
Get Directions

The University of Pennsylvania Module VII (MOD VII) chiller plant contains 30,000 tons of cooling capacity and is the largest of the three chiller plants on campus that support the central chilled water system. The plant was designed to accommodate an additional 20,000 tons of cooling capacity as demand for chilled water on the University's campus grows. There are six field-erected 5,000 ton centrifugal chillers currently installed within the plant. Four of these units were installed when the plant was originally constructed in 2000 and two units were added in 2008. During the summer season peak chilled water supply can reach as high as 68,000 gpm. The plant is located at the south end of campus off University Avenue.

10th Annual Design on the Delaware

November 14-16, 2012 - Philadelphia, PA

Share your expertise with industry colleagues by presenting a program.

Design on the Delaware provides an opportunity to contribute your expertise to the design, construction, and planning professions. The 2012 Conference Committee invites you to submit program and tour proposals of interest to architects, landscape architects, planners, engineers, contractors, developers and others in the building design and construction industry. Program proposals are due **April 16, 2012** and should be submitted online at http://proposals.designonthedelaware.com. Click here for the Call for Programs.

Milton Garland and Refrigeration Comfort Cooling Award Competitions - 2012

ASHRAE offers two competition-based awards encouraging the design of innovative refrigeration systems. The Milton W. Garland Commemorative Refrigeration Award for Project Excellence recognizes non-comfort refrigeration systems. The Refrigeration Comfort Cooling Award for Project Excellence is oriented toward comfort refrigeration systems.

The Philadelphia Chapter Technology Transfer Committee is currently accepting applications for both competitions for 2012.

The Garland Award competition is open for the design of mechanical refrigeration machinery for applications other than human comfort: e.g., food processing/preservation, industrial/manufacturing processes, life support in extreme environments, recreational facilities. Additional information on this competition is available at ashrae.org/members/page/1692.

The Refrigeration Comfort Cooling Award competition is open for the design of mechanical refrigeration machinery for human comfort applications. Additional information on this competition is available at www.ashrae.org/members/page/comfortcooling.

Both submissions must be made within 36 months of the initial operating date of the system, and will be judged on the following criteria:

- Complexity of Problem
- Solution Concept
- Architectural Integration
- Originality
- Achievement of Performance Criteria
- Energy Effectiveness
- Budget Compliance
- Ease of Maintenance

Additional information can be obtained from Mark Maguire, Chapter Technology Transfer Chair at c021bog5@ashrae.net.



March Meeting Photo

SMCA Scholarship Winners

(from left to right):

Zhongping Huang (ASHRAE Advisor, Widener University),

John Elwood,

Steven Ridenour (ASHRAE Advisor, Temple University),

John Bisacquino,

Michael Magee,

Ashley Lester (ASHRAE Student Activities Chair),

and Roger Hofmann (SMCA President).

This article was written by John Vastyan of Common Ground (seekcg.com) and submitted by Paul Silvestre of B.J. Terroni Company, the Philadelphia-area manufacturers' representative for Taco hydronic equipment. Please submit articles highlighting novel HVAC technologies to Chapter Technology Transfer Committee Chair Mark Maguire (c021cttc@ashrae.net) for consideration in future newsletters.

The Art of Variable-Speed Pumping to a delta-T

Variable-speed hydronic circulation has been around for years. With the advent of packaged controls on pumps, it is easier than ever to implement. To take a closer look at the concept of variable-speed pumping, Greg Cunniff (manager of application engineering for Taco Inc.) and Warwick, R.I.-based plumbing and heating specialist William J. Riley explain the best applications and key benefits of the technology.

Convection-Heat-Transfer Equation

The speed of a variable-speed pump is adjusted auto-matically based on heating- or cooling-load demand. To understand how, let's take a quick look at the convection-heat-transfer equation, which, for water, is:

 $gpm = Btuh \div (\Delta T \times 500)$

where:

gpm = the flow rate, in gallons per minute, needed to meet heating- or cooling-load demand

Btuh = the heat or cooling, in British thermal units per hour, required for a zone

ΔT = the delta-T, or designed temperature drop, across a piping circuit (for heating, design delta-T typically is 20°F; in many radiant-floor-heating and chilled-water-cooling systems, however, it usually is about 10°F)

500 = the specific heat of water, in British thermal units per minute per gallon per hour per Fahrenheit degree (8.33 lb per gallon times 60 min per hour times 1 Btu per pound per Fahrenheit degree)

Sample Project

Consider the example of a small restaurant with a heat gain of 75,000 Btuh and an outdoor design temperature of 95°F. Three zones of fan coils, each with a cooling load of 25,000 Btuh, are needed. Each zone is designed to a 10°F delta-T and has a flow rate of 5 gpm. With this information, the boiler and chiller supply and return pipes, distribution header, and zone piping can be sized.

Pipe-sizing guidelines are based on minimum and maximum flow velocity and maximum head loss. Recom-mended design parameters are velocities of 2 fps to 8 fps at a head loss of no more than 4 ft per 100 ft. In smaller pipe, head loss of 4 ft per 100 ft rules, resulting in a maxi-mum velocity of 4 fps, above which noise is likely. In larger pipe, a veloc-ity of 8 fps rules, resulting in pressure drops below 4 ft per 100 ft. Larger pipe can withstand higher velocities without noise.

According to Riley, president of William J. Riley Plumbing & Heating Company Inc., determining the pip-ing arrangement is next. He said our example calls for 1 1/4-in. pipe and 15 gpm flow. He said he would branch into 1-in. lines for each fan-coil zone at the chiller header before doing the same, only in reverse, for the return side of the system.

Next up: estimating the head loss of the piping system. Riley mea-sures the longest zone from the dis-charge side of the pump all of the way around the system, through the chiller, and back to the suction side of the pump. For this application, the longest run is 150 ft of pipe, including the fan coil.

To allow for additional pressure drop through fittings in this example, the length of the longest run of pipe is multiplied by 1.5. Returning to our example, 150 ft multiplied by 1.5 equals 225 ft. That total equivalent length, then, is multiplied by 0.04 (representing 4 ft of head loss per 100 ft of straight, properly sized pipe, based on the maximum pressure drop of 4 ft per 100 ft), yielding 9 ft of head loss.

Click here to read the entire article.

ASHRAE Philadelphia Chapter

presents a seminar on

Energy Modeling Techniques

a half-day workshop on Thursday, April 19 (1:30–4:30 pm) at Holiday Inn (400 Arch Street in Philadelphia). The seminar cost is \$95 and awards 3 professional development hours (PDH's).

The seminar will cover concepts such as:

Building Information Modeling (BIM) is one of the most powerful tools that designers have to create and visualize 3-D building models. BIM allows the designer to track thousands of building components in 3-D and thus detect potential interferences. It also makes it easy to visually display a potentially complex design in a way that building owners can easily understand.

Similarly, building energy simulation (SIM) has evolved into a powerful tool for evaluating the energy performance of potential or existing buildings. Building simulation allows easy comparison of the energy and environmental performance of many hundreds of design or retrofit options. This presentation provides an overview of trends and drivers affecting the building industry as well as the simulation tools of tomorrow.

Course Instructor – Dru Crawley, PhD, Director of Building Performance Products at Bentley Systems.

Dr. Crawley leads the team developing a new generation of building performance software for energy and sustainability at Bentley Systems. Prior to joining Bentley in 2010, Dr. Crawley led the U S Department of Energy's Commercial Buildings Initiative (working to create low- and zero-energy buildings nationwide) and development of EnergyPlus. He is Chair of ASHRAE Standard 169 (Weather Data for Building Design Standards) and was made an ASHRAE Fellow in 2009.





Prizes to Include

- First Place
- Second Place
- Third Place
- Longest Drive
- Closest to the Pin

Lunch/Registration: 12:00 PM

Shotgun Start: 1:00 PM

Format: Scramble

Dinner/Awards: Following Golf

Please contact Jared Johnson at c021vp@ashrae.net with any questions

SPONSORSHIP OPPORTUNITIES

Single Hole Sponsor - \$200 Two Hole Sponsor - \$300 Three Hole Sponsor - \$450

REGISTRATION DETAILS

Golf, Lunch & Dinner - \$125 ea Dinner Only - \$35 ea

Online Registration:

http://tinyurl.com/2012AHRAEPHILAGOLF

If you would prefer not to register online please contact Jared Johnson to arrange for payment.

ASHRAE Learning Institute 2012 Spring Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide) Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.



District Cooling & Heating Systems

Mon, March 19, 2012 - 1:00 pm to 4:00 pm ET

Basics of Combined Heat & Power

Wed, March 21, 2012 - 1:00 pm to 4:00 pm ET

Evaluating the Performance of LEED®-Certified Buildings

Wed, March 28, 2012 - 1:00 pm to 4:00 pm ET

Commissioning Process & Guideline 0 Wed, April 4, 2012 – 1:00 pm to 4:00 pm ET

* Complying with Standard 90.1-2010: HVAC/Mechanical

Mon, April 9, 2012 - 1:00 pm to 4:00 pm ET

* Complying with Standard 90.1-2010: Envelope/Lighting

Wed, April 11, 2012 – 1:00 pm to 4:00 pm ET

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits. Archiving is available.

Humidity Control: Principles and Applications - Part 1

Mon, March 26, 2012 - 1:00 pm to 4:00 pm ET

Humidity Control: Principles and Applications - Part 2

Mon, April 2, 2012 - 1:00 pm to 4:00 pm ET

Implementing ASHRAE Standard 189.1-2009 - Part 1

Mon, April 16, 2012 - 1:00 pm to 4:00 pm ET

Implementing ASHRAE Standard 189.1-2009 - Part 2

Thurs, April 19, 2012 – 1:00 pm to 4:00 pm ET

Integrated Building Design - Part 1

Mon, April 23, 2012 - 1:00 pm to 4:00 pm ET

Integrated Building Design - Part 2 Wed, April 25, 2012 - 1:00 pm to 4:00 pm ET

* Take both Standard 90.1 courses and save 20% on the price of these courses



ASHRAE HVAC Design Workshops

2 Workshops, 5 Days of Intense Instruction May 21-25, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

HVAC Design: Level I - Essentials

May 21-23, 2012

ASHRAE's HVAC Design: Level I - Essentials workshop provides intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, the workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team. Gain the fundamentals and technical aspects to design, install and maintain HVAC systems.

HVAC Design: Level II – Applications



May 24-25, 2012

ASHRAE's HVAC Design: Level II - Applications workshop provides advanced instruction on HVAC system designs for experienced HVAC designers or those who completed the HVAC Design: Level I Essentials workshop. Gain an understanding of system design incorporating the application of Standards 55, 62.1, 90.1 and 189.1.

Creating Effective, Highly Skilled Engineering Team Members

- Gain knowledge to make immediate contributions to design projects
- Participate in in-depth, practice-focused training
- Learn from industry leaders selected by ASHRAE
- Receive free bonus resources valued at over \$200

Attendees of the HVAC Design Workshops can earn continuing education credits. Contact the relevant governing body for more information.



ASHRAE Certification **Programs**

- **Building Energy Assessment** Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit www.ashrae.org/ certification

Visit www.ashrae.org/hvacdesign to register

April 19, 2012 1:00 PM-4:00 PM EDT

Dedicated Outdoor Air Systems:

A Path to Balancing Energy and IEQ

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



Presenters



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



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



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



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

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 (PHDs) or three (3) AIA Learning Units may be awarded to viewers who complete the "Participant Reaction Form" by May 3, 2012.

Sponsored by:







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Brought to you by the ASHRAE Chapter Technology Transfer Committee

For more information about the program, presenters, continuing education credits, sponsorships, and DOAS resources please visit us at www.ashrae.org/doaswebcast



The Philadelphia Chapter
of the
American Society of Heating,
Refrigerating and Air
Conditioning Engineers, Inc.

994 Old Eagle School Road Suite 1019 Wayne, PA 19087-1866 P 610-971-2169 F 610-971-4859

Click <u>here</u> to visit our web site at:

http://phila.ashraechapters.org

Republication of material contained herein is expressly forbidden without official Chapter authorization. The Chapter does not speak or act for the Society.

Any member with material to submit for inclusion in the Climate can send the information to:

Hope Silverman
P 610-971-2169
hope@mmco1.com

Material can include letters to the editor, member news, upcoming events, comments on chapter programs or issues, etc.

NOTICE

On January 7, 2010 the Legislature enacted and the Governor signed into law
P.L. 2009, C. 294 which requires Professional Engineers licensed in New Jersey to
complete continuing education. The effective date of the new law is January 12, 2011. At this time, the
State Board of Professional Engineers and Land Surveyors ("Board") is working on proposed regulations to
provide guidance and clarification to its licensees and interested parties. This Notice is intended to provide
information about the continuing professional competency requirements.

- A licensee shall complete not more than 24 continuing professional competency credits related to the practice of Professional Engineering in every biennial license renewal cycle, 2 of which shall be in professional practice ethics.
- The Board does not have a process in place to approve educational programs and providers ·at this time. However, the Board is working on proposed regulations to address these matters.
- A licensee is not required to acquire continuing professional competency credits until January 12, 2011. However, the Board anticipates that a current licensee shall be required to obtain 15 continuing professional competency credits, 2 of which shall be in professional practice ethics, on or before April 30, 2012 to meet the requirements for the 2012-2014 biennial renewal period.
- The Board anticipates that for the 2014-2016 biennial renewal period, and every 2 years thereafter, a licensee shall be required to complete 24 continuing professional competency credits, 2 of which shall be in professional practice ethics. http://www.njleg.state.nj.us/2008/Bills/PL09/294.HTM

NEW MEMBERS

Erik App (Member)

Cole Wesley Bevan (Associate)

Nick Bublavi (Associate)

Alvaro E. Delgado (Member)

Will Graupner (Associate)

Hamza Harkaoui (Student)

Brian Lim (Associate)

Eric Martin (Associate)

Mohamed Omran (Student)