American Society of Heating , Refrigerating, and Air-Conditioning Engineers

Volume 46, Issue 8

April 2011

QUAKER CITY CLIMATE

INSIDE THIS ISSUE:

March Meeting	2
Balancing Seminar	2
CTTC Article	3
Golf Outing	4
CTTC Workshop	5
CTTC Announcements	6
Tentative Programs Calendar	7
YEA Announcement	8
Membership Promotion	8
2011 Design On the Delaware	9-18

Holiday Inn
400 Arch Street
Philadelphia, PA 19106
(215) 244-9777
For Directions : Click Here
Free parking on site

Dinner Fees are based on online reservations and prepayment ($45 without online reservation):

- Philadelphia Chapter Members: $30
- ASHRAE Members - Non-Chapter Members : $40
- Non- ASHRAE Member : $40
- Young Engineers (35 and under): $25
- Students: FREE

SIMPLICITY- THE HALLMARK OF ELEGANT DESIGN
IT'S STUDENT NIGHT

Our next meeting is scheduled for Wednesday, April 13, 2011 at The Holiday Inn. The event schedule is as follows :

- Workshop
  1:30pm-4:30pm
- Social Hour with Cash Bar
  5:00pm-6:00pm
- Dinner
  6:00pm-6:30pm
- Presentation
  6:30pm-7:30pm

Registration

Dinner Presentation Overview:

Indoor air quality is of increasing concern as society redefines the needs of the indoor environment. This talk provides a new perspective on the topic starting with the fundamental dynamics of psychometric instability and its affect on the controlled environment. System directed solutions are presented which reflect a significant departure from existing design practice

Meeting Sponsored by NEBB

Karen Groppe, Director of Marketing will be the NEBB representative she will do about a 5-10 minute talk before Bill Coad. Her brief discussion will cover reasons why engineers, architects and building owners should look to NEBB when delivering high performance buildings.

Workshop Overview:

Mr. Coad's presentation will explain the economics of energy conservation and economic alternatives in the search for more energy-conservative buildings and machines. He will present an alternative perspective that concludes that energy conservation is an ethic. If those who practice in the energy sciences embrace this ethic, the inevitable result will be improved system performance, energy conservation and economy.

Presenter's Biography

William J. Coad, President of Coad Engineering Enterprises is a consulting principal and past Chairman and CEO of McClure Engineering Associates, and past President of ASHRAE. He received his degree in Mechanical Engineering from Washington University in 1957, and is a registered professional engineer in 37 states. He is a member of the Board of Directors of Mestek Corporation of Pittsburgh, Pennsylvania, Exergen Corporation of Watertown, Massachusetts and HBS Acquisition Corporation of Delaware.

Mr. Coad is a member of the Consulting Engineer's Council, the American Society of Mechanical Engineers (ASME) and a Fellow in the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE). He is a recipient of ASHRAE's Distinguished and Outstanding Service Awards, the Crosby Field Award for the best paper published by ASHRAE in 1985, the Louise & Bill Holladay Distinguished Fellow Award, the award for Best Journal Article of 1991, the Andrew T. Boggs Service Award and ASHRAE's highest award for technical achievement, the F. Paul Anderson Award. He is a recipient of the Washington University Alumni Achievement Award, and the Donald Julius Groen Prize of the British Institute of Mechanical Engineers.

Mr. Coad will be also doing a half-day workshop on Energy Considerations in Engineering Design (3 PDH units) at the Holiday Inn from 1:30-4:30pm. The cost of this seminar is $95. If interested copy and paste the following link to get to the event invitation.

http://guest.cvent.com/d/gdq6r7/1Q

2010- 2011

President
John Pardekooper, PE

President-Elect
Bob Finkboner

Vice President
James Piscopo, PE

Treasurer
Jared Johnson, PE

Secretary
Ashley Lester

Senior Governor
Bill Hart

Governors
Ashley Lester
Mark Maguire, PE
Mike Witkowski, PE

Newsletter Editor
Matthew Trinsey

Web Site Editor
Gary Debes

School Coordinators
James Lill, PE
Jeff Crozier, PE

Refrigeration
Matthew Trinsey

Student Activities
Committee Chair
Mike Witkowski, PE

Membership Promotion
Committee Chair
James Piscopo, PE

Education Chair
Mike Witkowski, PE

Programs Committee Chair
Bob Finkboner

Chapter Historian
Jared Johnson, PE

Young Engineers in ASHRAE
Ashley Lester

March Meeting: Table Top Vendor Show/Sustainability/Student Night









CTTC: Balancing Seminar

Twenty-two ASHRAE Philadelphia chapter members accepted the offer to receive a "behind-the-scenes" tour of the Sheet Metal Workers Local 19 balancing training center on Saturday, February 26. The half-day workshop consisted of presentations of the biosafety cabinet and fume hood testing lab, the variable volume box/DDC station, the water balancing station and the duct-leak testing area.

Instructors demonstrated the training that members receive as part of a two-year course, such as:

- The SMACNA test protocol of pressurizing a section of ductwork and measuring the flow rate of air to maintain the pressure; removing even small plugs from the duct caused a measurable increase in duct leakage.
- The water-balancing station, in which students measure water flow rates by different measurement techniques.
- The state-of-the-art biosafety cabinet/fume hood testing area. This area is one of the largest clean-room training facilities in the country.
- The interface between balancers and control vendors in adjusting variable-volume air systems.

The attendees came away impressed with the extent and quality of training that Local 19 balancers receive. ASHRAE appreciates the tour that Local 19 assembled.

CTTC: Operating Room Ventilations

This article was submitted by Jacinto Oliver of Kirkman-Oliver on behalf of Phoenix Controls, a manufacturer of airflow control solutions. Articles highlighting novel HVAC technologies should be submitted to Chapter Technology Transfer Committee Chair Mark Maguire (c021bog4@ashrae.net) for consideration in future newsletters.

Nowhere in a hospital is infection control more critical than in operating rooms (OR's), where the surgical theater exposes sensitive internal tissue to skin squames and airborne pathogens. From a ventilation standpoint, many types of rooms are treated as operating rooms, all of which receive positive pressure relationship to adjacent spaces. Rarely, highly infectious patients undergoing a surgical procedure will require a negative pressure OR.

Rooms treated like an OR include delivery rooms, critical or intensive care units, newborn intensive care, nursery suite, trauma rooms and minor procedure rooms. In addition to ventilation and proper directional airflow, temperature and humidity play an important role in successful surgical procedures and patient treatment. Conditions affected include rheumatoid arthritis, upper respiratory disease, chronic pulmonary disease, burn victims and those requiring oxygen therapy. Hence, there are clear benefits to coordinated ventilation, pressurization and temperature and humidity control from a single system.

Outside Air

ANSI/ASHRAE/ASHE Standard 170 recommends 20 air changes per hour (ACH) for OR's with a minimum of 4 outdoor ACH or 20%. Outside air, in comparison to room air, is virtually free of bacteria and viruses. Outside air dilutes any viral or bacterial contamination when mixed with recirculated air, even through HEPA filters. If ventilation systems are properly designed, constructed and maintained to preserve correct pressure relations between functional areas, they remove airborne infectious agents from the hospital environment.

Air Movement and Circulation

Supply air diffusers delivering air to ultra-clean areas such as OR's should be located at or near the ceiling, with return air duct at the perimeter and near the floor. This arrangement provides downward movement of clean air through the breathing and working zones to the floor area exhaust. Variable air volume (VAV) systems must ensure that during minimum ventilation rates (Table 7-1, ASHRAE Standard 170-2008), pressure relationships between the OR and adjacent spaces is maintained positive at all times. With VAV systems, a method such as air volume tracking between supply, return and exhaust could be used to control pressure relationships.

The return air duct is on at floor level on the far wall. Airflow from the top-center to bottom-perimeter is an effective guard against airborne pathogens or skin squames.

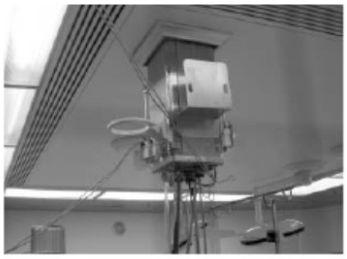


Temperature and Humidity

Temperature and relative humidity setpoints should be designed so that the surgical saff can make changs as required for the procedure and comfort of the surgical team. Temperatures in OR's can range from 60 to 80°F. Relative humidity can range from 20% to 60% typically. More information for specific types of procedures can be found in Table 7-1 of ANSI/ASHRAE/ASHE Standard 170-2008.

Pressure Monitoring

A pressure monitoring device should be installed to allow air pressure reading in the room relative to the adjacent space. Differential pressure between the space and corridor should be a minimum of 0.01" w.c. Any alarm function should be designed to be muted if necessary.



Laminar airflow diffusers above an operating room provide directional airflow from clean to unclean areas.

ASHRAE PHILADELPHIA CHAPTER
ANNUAL GOLF TOURNAMENT



Friday, June 3, 2011

Northampton Valley Country Club

299 Newtown-Richboro Road Richboro, PA 18954
http://www.nvgc.com/

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 Jim Piscopo at jpiscopo@aeceng.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/ashraephilagolf

If you would prefer not to register online please contact Jim Piscopo to arrange for payment.

ASHRAE Philadelphia Chapter

Energy Considerations in Engineering Design

a half-day workshop on Wednesday, April 13 (1:30–4:30pm) at the Holiday Inn (400 Arch Street in Philadelphia). The seminar cost is $95 and awards 3 PDH units, which contribute toward the Pennsylvania PE continuing education requirement.

Mr. Coad's presentation will explain the economics of energy conservation and economic alternatives in the search for more energy-conservative buildings and machines. He will present an alternative perspective that concludes that energy conservation is an ethic. If those who practice in the energy sciences embrace this ethic, the inevitable result will be improved system performance, energy conservation and economy.

Course Instructor – Bill Coad, ASHRAE Presidential Member

William J. Coad, President of Coad Engineering Enterprises is a consulting principal and past Chairman and CEO of McClure Engineering Associates, and past President of ASHRAE. He received his degree in Mechanical Engineering from Washington University in 1957, and is a registered professional engineer in 37 states. He is a member of the Board of Directors of Mestek Corporation of Pittsburgh, Pennsylvania, Exergen Corporation of Watertown, Massachusetts and HBS Acquisition Corporation of Delaware.

Mr. Coad is a member of the Consulting Engineer's Council, the American Society of Mechanical Engineers (ASME) and a Fellow in the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE). He is a recipient of ASHRAE's Distinguished and Outstanding Service Awards, the Crosby Field Award for the best paper published by ASHRAE in 1985, the Louise & Bill Holladay Distinguished Fellow Award, the award for Best Journal Article of 1991, the Andrew T. Boggs Service Award and ASHRAE's highest award for technical achievement, the F. Paul Anderson Award. He is a recipient of the Washington University Alumni Achievement Award, and the Donald Julius Groen Prize of the British Institute of Mechanical Engineers.

Chapter Technology Transfer Committee

ASHRAE Milton W. Garland Award

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 2011.

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.

The Refrigeration Comfort Cooling Award competition is open for the design of mechanical refrigeration machinery for human comfort applications.

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 Transfer Technology Chair (c021bog4@ashrae.net).

ASHRAE Offers Certification:

Healthcare Facility Design Professional Certification

ASHRAE has developed the Healthcare Facility Design Professional (HFDP) certification program in close collaboration with the American Society for Healthcare Engineering (ASHE) of the American Hospital Association. Candidates who earn the HFDP certification have demonstrated a well-rounded understanding and knowledge of medical terminology and facility operations as they affect HVAC&R design in healthcare facilities.

Applications for certification are on the ASHRAE Website (ashrae.org). The exam assesses mastery of a significant body of knowledge that has been identified by industry practitioners and subject matter experts as reflecting current best practices. The detailed content outline is included in the Candidate Guidebook, which is also available on the ASHRAE Website.

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 five certification programs currently available:

- Building Energy Modeling Professional;
- Building Energy Assessment Professional;
- Commissioning Process Management Professional;
- High-Performance Building Design 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 c021bog4@ashrae.net.

ASHRAE Webcast: Ground Source Heat Pumps

ASHRAE is presenting a Webcast on Thursday, April 21 on the application of ground source heat pumps. The event, Ground Source Heat Pumps – Putting the Earth to Work for You, runs from 1 to 4 pm. Hear from leading heat pump experts how site, climate, building, HVAC system and ground characteristics affect ground heat exchanger design, how ground source system design enhances efficiency and how to avoid design and operations pitfalls.

The Webcast can be conveniently viewed from your computer workstation. The agenda is:

1 pm – Introduction by Don Rheem (moderator)

Opening Remarks by Lynn G. Bellenger (ASHRAE president)

Presentation by Jeff Spitler (Professor of Mechanical Engineering, Oklahoma State)

Presentation by Kirk Mescher (Founding Partner, CM Engineering)

Presentation by Mick Schwedler (Manager of Applications Engineering, Trane)

2:30 pm – Roundtable Discussion

Question and Answer Session

3:55 pm – Closing Remarks by Don Rheem (moderator)

A link on the ashrae.org homepage allows you to register for the event. Any questions, please email Mark Maguire, Chapter Technology Transfer Committee Chair: c021bog4@ashrae.net.

PHILADELPHIA CHAPTER PROGRAMS CALENDAR 2010-2011

Date	Location	Topic	Theme	Joint Meeting
4/13/2011	Holiday Inn (4th & Arch)	Energy Efficiency Seminar presented by ASHRAE Past President & Distinguished Lecturer Bill Coad, PE		
4/13/2011	Holiday Inn (4th & Arch)	Simplicity—The Hallmark of Elegant Design by ASHRAE Past President & Distinguished Lecturer Bill Coad, PE	Student Night	
4/21/2011	Temple University 11th & Norris Streets	Ground source Heat Pump Webcast presented by ASHRAE		
5/12/2011	Holiday Inn (4th & Arch)	Thermal Storage Seminar presented by ASHRAE Vice President and Distiguished Lecturer William Bahnfleth, PhD, PE		
5/12/2011	Holiday Inn (4th & Arch)	Variable Primary Flow Chilled Water Systems, presented by ASHRAE Vice President and Distiguished Lecturer William Bahnfleth, PhD, PE	Past President's Night	
5/19/2011	CBP	YEA Phillies Night	YEA	
6/3/2011	NVCC	Golf Outing		
TBD	TBD	2011-2012 Planning Meeting		

*** Program calendar is subject to change. Please refer to ASHRAE Philadelphia Website for up to date infor-*

CHAPTER TECHNOLOGY AWARD COMPETITION 2011

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 March 2011 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/technologyawards.

Mark M. Maguire, PE

Chapter Chair – Technology Transfer

c021bog4@ashrae.net

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

phone 610.971.2169
fax 610.971.4859

ASHRAE Philadelphia Website

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:

Matthew Trinsey
Clive Samuels & Associates, Inc.
1 Independence Way
Princeton, NJ 08540
(P) 609-627-7983
c021ne@ashrae.net

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

Young Engineers In ASHRAE

YEA Phillies Night

Mark your calendars for the second YEA Phillies Night on Thursday May 19th!! APC by Schneider Electric is sponsoring the event, so come out for a fun evening of watching the Phillies play the Rockies. Our sponsor will also be hosting a pre-game get together with free give always! More details will follow, so look out for a Cvent invite later in the month.

YEA Young Engineers in ASHRAE

Phillies™

New Memebers

Members

George Foos

Associate Members

James Lynam
Paul Molino
William Ryczek
David VanOcker
Dan White
Gary Pasternak
Robert Payment

Student Members

Stephen Jarosz
Mbalu Fornah-Delo
Kevin Martin
Steven Pagano
Nicholas Rekstad

James Piscopo, PE
Vice President
Membership Promotion Chair
Online Membership Application

ASHRAE jobs

2011 Design on the Delaware

Call for Presentations

2011 Design on the Delaware Regional Conference

Annual conference November 7,8, & 9, 2011

Sheraton Philadelphia City Center, Philadelphia, PA

Center for Architecture, Philadelphia, PA

Don't miss your opportunity to present and participate in the 9th Annual Design on the Delaware Conference. *Submission are due* ***5:00 pm, April 15, 2011***

We invite knowledgeable, articulate individuals willing to share their expertise and real-world experience to submit presentation proposals for the conference. This exciting event is the result of the collective efforts of the following organizations:

American Institute of Architects Philadelphia
American Institute of Graphic Arts Philadelphia Chapter
American Society of Heating, Refrigerating & Air Conditioning Engineers
American Society of Landscape Architects Pennsylvania/Delaware Chapter
Associated Builders and Contractors Southeastern Pennsylvania
Community Design Collaborative
Construction Management Association of America
Delaware Valley Green Building Council
Engineers Club of Philadelphia
General Building Contractors Association
Illuminating Engineers Society
Innovation Philadelphia
International Interior Design Association Philadelphia Chapter
Pennsylvania Planning Association
Philadelphia National Organization of Minority Architects
Society for Marketing Professional Services Philadelphia Chapter
Urban Land Institute Philadelphia Chapter
AIA New Jersey
AIA Bucks County
AIA Delaware
AIA Central Pennsylvania
AIA Eastern Pennsylvania

Mission

Design on the Delaware convenes design, planning, and building professionals and businesses, and public leaders from throughout the Mid-Atlantic region for three compelling days of professional education, cross-boundary exploration, social engagement, and networking. Participants will gain new perspectives from related fields, a deeper knowledge of their own profession, information from industry suppliers, a view into the public realm and, most of all contacts and experiences that will enhance their professional capabilities.

Timeline

Friday, April 15, 2011
Deadline for proposal submissions (email to pat@aiaphila.org)

May 2011
Programs reviewed and selected for presentation

May - June 2011
Program Presenters informed and scheduled for conference

June 2011
Save the Date postcard mailed to professionals in PA, NJ and DE
Conference Brochure with course descriptions published online
Online registration available

July – November 2011
Series of emails promoting the conference sent

September 2011
Conference Brochure mailed to potential attendees

November 7, 8 & 9, 2011
Design on the Delaware conference

Annual Call

AIA Philadelphia, in conjunction with other regional AIA chapters and affiliated organizations in design, planning and construction in the Delaware Valley Region, presents the 9th Annual Design on the Delaware Conference. This three-day conference features a self-directed, facilitated learning environment with education sessions, product and technology exhibits, collegial networking opportunities, and tours. Education sessions focus on current issues, practices, and professional challenges facing architects, landscape architects, planners, other design professionals, contractors, business leaders, and affiliated professionals in the design, planning, and building industries.

500 design professionals, contractor, and other related building professionals, planners, public leaders, product and service representatives participated in the 2010 Design on the Delaware Trade Show and Conference. This conference is unique in the Greater Philadelphia region and provides an invaluable opportunity to maximize one's exposure and actively contribute to this arena of shared knowledge!

The Speaker's Advantage

Selected speakers will have the opportunity to gain visibility and enhance their leadership role within the profession as they share their expertise. You are welcome to submit more than one presentation proposal. No more than three proposals will be selected for presentation from any one provider.

Conference Format

Up to 12 one-hour sessions, 24 one-and-half hour programs and tours of varying lengths will be presented the first two days of the conference. Tours of one hour, one-and-half hours, half, will be presented the first two days of the conference.

The third day of the conference will consist of tours of varying lengthleaving from Philadelphia's Center for Architecture (1218 Arch Street) and a full day design charette presented by the Community Design Collaborative.

The Evaluation and Selection Process

Program and tour proposals will be evaluated using the following criteria:

· Well-defined proposal focus

· Overall quality and potential to contribute to a well-balanced conference program

· Proposed level and type of attendee interaction

· Practical application of materials or ideas

· Experience of speaker(s)

· Eligibility for Health, Safety Welfare and Sustainable Design credits as defined by the American Institute of Architects Continuing Education System; Eligibility for Continuing Education credits for AICP/APA, ASLA, Engineers, RLA, SMPS and other professionals a plus

Successful proposals offer programs that make professional and educational contributions to participating organizations/associations and their members. **Programs must not sell, promote, or pitch any specific product or service.** Programs focused on a particular product or service are, in general, not selected. Program content must facilitate the continuing education needs of building and design professionals, be relevant to the changing industry, and contribute to the body of knowledge of architecture, engineering, landscape architecture, planning, design, and construction. **Programs routinely presented in the Greater Philadelphia area will not be considered.**

Please be available to present your seminar(s) and/or tour(s) the conference dates. We will notify individuals submitting proposals of the conference exact date in February 2011 and the selection results in late May/early June 2011.

Program Topics

Programs related to all aspects of the planning, design, technology and construction of the built environment will be considered. Program proposals focused on practice management for design and building professionals will also be accepted. ***Special consideration will be given to programs on topics related to sustainable/green and high performance design and construction.*** Past conferences have offered programs on Green/LEED; Community/Urban Design; Design and Technology; Practice Management; Regional Development, Design; Transportation issues; Impact of Economy; and Preservation/Restoration. Consideration will be given to all program topics. Programs addressing issues of the suburban environment are encouraged.

The conference is an interdisciplinary event. Proposals with speakers representing multiple disciplines (designers, planners, contractors, owners, etc) will receive special consideration.

Presentation Formats

SEMINARS

The conference schedule allows for seminars of 60 or 90 minutes. Special two-and-half hour programs will be considered as will full day charrette programs.

Audience size for each session ranges from 15-60 participants of mid or senior level in their firms. (Please indicate if there are a maximum number of participants the program can accommodate.)

Consider these following popular formats and methods when designing and describing your presentation:

· Case Studies—A favorite, this format presents facts, problems, and/or data with questions to generate discussion and solutions.

· Graphic Presentations—Video, computer display, PowerPoint, etc., may be used as the basis of discussion. Please note: attendee evaluations indicate extensive reliance on PowerPoint can erode the quality of a presentation.

· Panel Presentations—Series of short lectures or a Q&A segment coordinated by a moderator.

· Short Lectures—Give a short lecture at the session's start to generate discussion, or provide a series of short lectures, each followed by discussion.

TOURS

Tours, not including transportation time, can be 60-minute, 90-minute, half-day or full-day length. Please indicate the maximum number of persons who can participate in the tour. If appropriate, please provide the name of the person at tour site coordinating/presenting the tour and one copy of any required release forms. For outside tours over natural terrain, please indicate if terrain is easy, moderate, difficult, hilly, wet, etc. AIA Philadelphia will make arrangements for tour transportation. Walking tours are also welcome. *Tours of buildings/sites under construction are very popular.* Please indicate if hard hats are required or supplied and if special footwear/clothing is required.

Classrooms

Each classroom will have a head table and/or podium and will be set up either classroom style (rows of tables and chairs) or theater style (rows of chairs), depending on program and actual enrollment. Projectors will be provided. Speakers must provide their own laptop computer.

Speakers

We recommend you limit the number of speakers to no more than four per 60-minute seminar and no more than six per one-and-half hour seminar. Fewer speakers in each time frame are both acceptable. Proficient speakers who are experts in the field and can effectively communicate their message to a variety of audiences contribute the most to these programs. *Please be sure all program presenters are available the conference dates. The date and time of your presentation will be confirmed in June.*

Speaker Expenses

Speakers receive complimentary entrance to trade show, educational programs, and meals on the day of their presentation. Speakers are responsible for all other expenses. The conference cannot provide any financial compensation or assistance of any kind. Speakers are welcome to register for the day they are not presenting at www.designonthedelaware.com**.** The full conference schedule will be posted by mid-June.

Submission Process

Submit proposals (email preferred) by **Friday, April 15, 2011** to Pat Gourley, Director of Programs & Special Events, at **pat@aiaphila.org** or sent to Design on the Delaware, AIA Philadelphia, 1218 Arch Street, Philadelphia, PA 19107, Fax: 215-569-9226.

Proposals ***must*** include the following:

1. Title

Provide a short, benefits-oriented title (six to eight words) which accurately reflects the program objectives.

2. Program Summary

Should your program be selected, this 50-word-or-less description will be published in the Conference brochure to promote your session. The summary should succinctly communicate the content of program and its learning objectives while appealing to the conference audience.

3. Program Abstract

Used in the evaluation process, this 200-word program/presentation summary must specify how the program relates to the building and design professions, its educational value, and the benefits to those who will attend.

4. Learning Objectives

List four learning objectives (or outcomes). These objectives must clearly state what participants learn as a result of participating in your session. These can be in bulleted format.

5. Program Format and Length

Indicate instructional techniques (case study, panel discussion, lecture, etc.) to be used in your session and state the optimum time needed.

6. Health, Safety, and Welfare (HSW)

Please indicate if the program will qualify for HSW learning units. To qualify for HSW learning units, there should be a clear connection as to how the general public will benefit by the knowledge gained when the architect completes this course and **75 percent of the program must relate to one or more of the following**:

-Aspects of architecture that have salutary physical effects among users of buildings protecting the public from accidental injury. Examples: accessibility, acoustical systems, energy efficiency, mechanical, plumbing, electrical systems, and materials

-Aspects of architecture intended to limit or prevent accidental injury or death among users of buildings or sites. Examples: codes, regulations, natural hazards, life safety systems - suppression, detection and alarm standards.

-Aspects of architecture that engender demonstrable positive responses among, or enable equal access by, users of buildings or sites. Examples: building design and materials, methods & systems, construction contracting, ethics and regulations governing practice of architecture, preservation, adaptive reuse, and the study of environmental issues.

7. Sustainability

Please indicate if you believe your program will qualify for Sustainable Design learning units. To qualify a minimum of **75 percent of the program's content** must relate to one or more of applicable subject areas. **Please read the detailed Sustainable Design program requirements on pages 9 & 10 of this document and indicate applicable areas and topics.** *For more information on sustainable design qualifying topics, go to* ***www.aia.org/aiaucmp/groups/aia/documents/pdf/aias076887.pdf.*** All programs providing Sustainability Design learning units also qualify for Health, Safety, Welfare units.

8. Discipline Interest

Please indicate if you your program is of interest to planners, landscape architects, engineers, contractors or any building/design professional.

9. Experience Level

Specify level (Entry, Intermediate, or Advanced) to indicate the experience level of the intended audience. *Most of the conference attendees are experienced design and building professionals. The conference committee rarely selects entry level programs.*

10. Speaker(s)

List all session presenters, including title, company, professional affiliations (AIA, ASLA, PE, etc), full mailing address, telephone, facsimile, and email address. Describe each person's speaking experience at previous conferences and other events (name of the event and a reference). Include a brief biographical narrative (200-word maximum) for each speaker, highlighting expertise with the particular seminar topic. A separate bio of the speaker is acceptable. Please do not send full resumes.

11. Provider

Identify the provider - the party responsible for the educational content/quality of the session (firm, company, chapter, professional association, school, government agency, etc.) - to be listed in the Conference Guide. It is not necessary to be an AIA registered continuing education provider to submit a proposal.

12. Audio visual

A projector (for PowerPoint presentations) will be provided. The program presenter is responsible for providing a laptop computer for his/her presentation. Microphones and podiums will be provided in rooms as needed. Please specify any special audio-visual needs.

13. Attendees

Please indicate if there is a limit to the number of attendees.

14. Contact person

You must include the name and full contact information (name, title, company name, mailing address, phone and fax numbers, and email address) of the person submitting the program. This person will serve as the primary contact, will be informed if the program is accepted and is responsible for informing program speakers. *(This person does not have to be a speaker.)*

INCREASE YOUR CHANCES OF BEING SELECTED

It is strongly suggested that your proposal be of interest to more than one of the participating professional disciplines (architecture, landscape architecture, planning, engineering, construction etc). Programs of interest to a multi-disciplinary audience in the design, planning and construction industries that are innovative, cutting-edge and/or represent best practices will be given special consideration.

· Use clear, concise language.

· Offer your program at an advanced level.

· Propose a program that is new. Programs presented on a regular basis will not be considered.

· Name all of your panelists. Do not leave the reviewers guessing who will be speaking.

· Do not propose a program that is a sales pitch for a product, publication, or company. This is not a sales opportunity, and the proposal will not be selected.

· Provide ***all*** the information requested. Proposals that fail to meet all guidelines may be disqualified.

Selection Process

The conference committee consisting of representatives from participating organizations will review and select programs for presentation in May. The conference schedule will be determined in May. Contact persons for programs selected for presentation will be informed mid-May through early June.

Documentation

If selected, the contact person will be sent program documentation and speaker forms to complete. **These must be completed and returned within 14 days of receipt.** The contact person must provide send a CD of all visual presentations (PowerPoint, Video) etc by November 1, 2011. If the content of the CD does not reflect the full breadth of the program and clearly address the program learning objectives, a written, detail summary must be provided by presentation date. A copy of all hand out materials and any other documentation of the program content must also be provided to AIA Philadelphia by the presentation date.

Questions

*Pat Gourley, Director of Programs & Special Events, at **pat@aiaphila.org**, 215-569-3186x105.*

Deadlines

Proposals will be accepted until 5:00 p.m. (Eastern Time) Friday, April 15, 2011. Please e-mail as Word or PDF document to pat@aiaphila.org, Design on the Delaware, AIA Philadelphia, 1218 Arch Street, Philadelphia, PA 19107, P: 215-569-3186 x105, F: 215-569-9226.

PROPOSALS MUST CONTAIN ALL REQUIRED INFORMATION FOR CONSIDERATION.

Sustainable Design Requirements/Topics

Sustainable Design (SD) Learning Units
Sustainable design is achieved through an integrated design and delivery process that enhances the natural and built environment by using energy sensibly with a goal toward carbon neutrality, improves air and water quality, protects and preserves water and other resources, and creates environments, communities and buildings that are livable, comfortable, productive, diverse, safe, and provide enduring value to our community and society as a whole.

As a guide for identifying potential qualifying courses, sustainability is the concept of meeting present needs without compromising the ability of future generations to meet their own needs.

Sustainable design is achieved through an integrated design and delivery process that enhances the natural and built environment by using energy sensibly with a goal toward carbon neutrality, improves air and water quality, protects and preserves water and other resources, and creates environments, communities and buildings that are livable, comfortable, productive, diverse, and safe. *Refer to the CES Providers Manual Appendix, GUIDELINES FOR APPROVING AIA/CES SUSTAINABLE DESIGN COURSES, for detailed descriptions.*

Indicate what category applies to your course. Check up to three (3) categories that apply:

☐ **I. Sustainable Design and Innovation** Sustainable design is an inherent aspect of design excellence. Projects should express sustainable design concepts and intentions, and take advantage of innovative programming opportunities.

☐ **II. Regional /Community Design** Sustainable design values the unique cultural and natural character of a given region.

☐ **III. Land Use and Site Ecology** Sustainable design protects and benefits ecosystems, watersheds, and wildlife habitat in the presence of human development.

☐ **IV. Bioclimatic Design** Sustainable design conserves resources and maximizes comfort through design adaptations to site-specific and regional climate conditions.

☐ **V. Light and Air** Sustainable design creates comfortable interior environments that provide daylight, views, and fresh air.

☐ **VI. Water Cycle** Sustainable design conserves water and protects and improves water quality.

☐ **VII. Energy Flows and Energy Future** Sustainable design conserves energy and resources and reduces the carbon footprint while improving building performance and comfort. Sustainable design anticipates future energy sources and needs.

☐ **VIII. Materials and Construction** Sustainable design includes the informed selection of materials and products to reduce product-cycle environmental impacts, improve performance, and optimize occupant health and comfort.

☐ **IX. Long Life/Loose Fit** Sustainable design seeks to enhance and increase ecological, social, and economic values over time.

☐ **X. Collective Wisdom and Feedback Loops** Sustainable design strategies and best practices evolve over time through documented performance and shared knowledge of lessons learned.

This course qualifies for SD credit. If ☐ Yes - Continue If ☐ No - Skip to Instructional Format

SD subjects must be HSW and cover at least 75% of the course- based upon stated learning objectives.)

Sustainable Design Topics – IF APPLICABLE

Select up to 10 topics apply to your category selected. (For detailed definition go to: **www.aia.org/ces_sdguidelines**)

TOPIC	CATEGORY
☐ 1 Active Solar Systems	VII
☐ 2 Alternative Energy	VII
☐ 3 Alternative Transportation	II, III
☐ 4 Appropriate Size and Growth	II, III
☐ 5 Building Form	I, IV, VII
☐ 6 Building Monitoring	V, VII, X
☐ 7 Building Orientation	III, IV
☐ 8 Carbon Offsets	VII
☐ 9 Cavity Walls for Insulating Airspace	VIII
☐ 10 Co-Generation	VII
☐ 11 Conserving Systems and Equipment	VI, VII
☐ 12 Construction Waste Management	VIII
☐ 13 Cool Roofs	IV, VII, VIII
☐ 14 Deconstruction and Salvage Materials	VIII, IX
☐ 15 Daylighting	III, IV, V, VII
☐ 16 Earth Sheltering	III, IV, VII
☐ 17 Efficient Artificial Lighting	V, VII
☐ 18 Efficient Site Lighting Systems	III, VII
☐ 19 Energy Modeling	I, VII, X
☐ 20 Energy Source Ramifications	VII
☐ 21 Energy-Saving Appliances and Equipment	VI, VII, VIII
☐ 22 Environmental Education	I, II, III, IV, V, VI, VII, VIII, IX, X
☐ 23 Geoexchange	III, IV, VI,VII
☐ 24 Green Roof	I, III, IV, VI, VII
☐ 25 High-Efficiency Equipment	VII, VIII
☐ 26 Integrated Project Delivery	X
☐ 27 Life Cycle Assessment	VII, VIII, X
☐ 15 Material Selection and Embodied Energy	VII, VIII, IX
☐ 30 Natural Ventilation	III, IV, V, VII
☐ 31 Open, Active, Daylit Spaces	II, IV, V
☐ 32 Passive Solar Collection Opportunities	I, II, III, IV, VII
☐ 33 Photovoltaics	VII, VIII
☐ 34 Preservation/Reuse of Existing Facilities	I, II, III, IX, X
☐ 35 Radiant Heating and Cooling	VII, VIII
☐ 36 Renewable Energy Resources	II, VII
☐ 37 Rightsizing Equipment	I, VII, VIII
☐ 38 Smart Controls	IV, VII, X
☐ 39 Space Zoning	I, IV, VII, IX
☐ 40 Staff Technical Training *	X
☐ 41 Sun Shading	I, III, IV, V,
☐ 42 Systems Commissioning	VII, X
☐ 43 Systems Tune-Up	VII, X
☐ 44 Thermal Bridging	I, IV, VII, VIII

TOPIC	CATEGORY
☐ 45 Total Building Commissioning	VII, VIII, IX, X
☐ 47 Walkable Communities	I, II, III, IV
☐ 48 Waste-Heat Recovery	I, VII
☐ 49 Water Conservation	II, III, VI, VII
☐ 50 Windows and Openings	I, II, III, IV, V, VII, VIII, IX
☐ 51Biomimicry	I, IV, VIII
☐ 52 Zoning, Regulatory, Codes	II
☐ 53 Safety and Security/Defensive Space	III
☐ 54 Indoor Environmental Quality	V, VIII
☐ 55 Embodied Water	VI
☐ 56 Prefabrication	VIII
☐ 57 Green Specifications	VIII
☐ 58 Contract Docs (Sustainable Design)	X
☐ 59 [Lessons Learned]	