

**PROFESSIONAL ENERGY CODE SHORT COURSE  
ANSI/ASHRAE/IESNA STANDARD 90.1-2001  
ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL  
BUILDINGS**

**BY  
THE PHILADELPHIA CHAPTER OF ASHRAE  
COINCIDING WITH  
THE NATIONAL WORKSHOP ON STATE  
BUILDING ENERGY CODES  
SPONSORED BY THE D.O.E**

**THURSDAY, JULY 22**

**HYATT REGENCY HOTEL  
PENN'S LANDING  
PHILADELPHIA, PA**

**OBJECTIVE**

As states and local entities adopt ANSI/ASHRAE/IESNA Standard 90.1, ASHRAE is responding to multiple requests to provide training regarding the Standard.

The Standard sets the minimum requirements for energy use in buildings except low-rise residential buildings and the methodology to attain these goals. The Standard differs from past Standards as it addresses not only new construction but also renovations to existing facilities.

**WHO SHOULD ATTEND**

Architects, Engineers, Building Owners, Code Officials, Building Managers, Contractors, Students, and other parties involved with construction, renovation, and operation of facilities.

**COURSE SCHEDULE**

START – 1:00 PM

- *Introduction of presenters*
- *Overview/Organization of ASHRAE 90.1-2001*
- *Building Envelope compliance*
- *HVAC compliance*
- *Service Water Heating compliance*
- *Power compliance*
- *Lighting compliance*
- *Other Equipment compliance*
- *Concluding remarks*

FINISH - 4:00 PM

Copies of both Standard 90.1-2001 and the associated User's Manual will be available for a cost of \$90.00 for those that attend the short course. Typically the cost for these would be \$195.00 (non-ASHRAE members) and \$157.00 (ASHRAE members). Kindly pre-order these and bring a check to the workshop.

Checks to be made out to: PHILADELPHIA CHAPTER ASHRAE

## **SPEAKERS**

### **Lawrence G. Spielvogel, PE**

Currently an ASHRAE Director at Large and a member of its Technology Council. Mr. Spielvogel previously chaired the ANSI/ASHRAE/IESNA Standard 90.1 Project Committee, ASHRAE Standard 105 on Building Energy Performance, the Standard 90 Panel on HVAC Systems, and ASHRAE technical committees on energy utilization, computer applications, and service water heating. He is also a Fellow of CIBSE (Chartered Institution of Building Services Engineers)(England), a member of the ACEC (American Council of Engineering Companies), and a member of many other technical societies.

### **Valerie Block**

With over twenty year's experience in the architectural glass industry, Ms. Block serves on ASHRAE's Standard 90.1 Building Envelope Committee, as well as on numerous industry codes and standards organizations, including the Glazing Industry Code Committee, the National Fenestration Rating Council, and the American Society for Testing Materials. Ms. Block is the former Technical Director for the Primary Glass Manufacturers Council.

### **Ken Strup, CxA**

Since 1970, Mr. Strup has been involved in the facilities industry. He is a member of numerous technical societies including: ASHRAE, BCA, AEE, USGBC, and others, together with serving on boards and technical committees. He holds patents on HVAC systems, has instructed on HVAC principles/practices and has been recognized for his efforts regarding propagating the professional practice of Commissioning (Guideline-1), Energy Conservation (Standard 90.1) and Building Operations (Guideline-4) in the industry.

### **Carl M. Watson, PE, LC**

A member of IESNA for over 25 years and a registered engineer, he is an award winning lighting designer, author, and electrical engineer. He has BS in EE and an MBA from Drexel University. He is also a member of IEEE and NSPE and is Lighting Certified by the National Council on Qualifications for the Lighting Professions. He specializes in developing and implementing very effective energy management solutions that optimize aesthetics, efficiency, and maintainability. Past projects have included lighting design, power quality and energy studies for office buildings, health care facilities, banks, schools, churches, multi-family residential, parking, and municipal facilities.