

THE ENGINEERS' CLUB OF PHILADELPHIA (215) 985-5701

FIRE PROTECTION ENGINEERING COURSES

SMOKE MANAGEMENT SYSTEMS

The cost of this 10 session course is \$550 and is being presented in cooperation with the Society of Fire Protection Engineers. It will review in depth the design of smoke management systems for buildings. The NFPA Standards 92A *Standard for Smoke-Control Systems Utilizing Barriers and Pressure Differences* and 92B *Standard for Smoke Management Systems in Malls, Artia, and Large Spaces* will be provided as the text for the course.

This course was developed by and is being taught by John E. Kampmeyer, P.E., F.NSPE, F.ASHRAE, who is a member of the NFPA Smoke Management Committee which is responsible for NFPA 92A and NFPA 92B. The class will be held on **Monday** evenings from 7:00 PM to 9:00 PM in a conference room of the Triad Fire Protection Engineering Corporation located at 150 Saxer Avenue, Springfield PA 19064-2335.

03/17/08 **SESSION 1**
INTRODUCTION - History of Smoke Management and Code Requirements for Smoke Management systems

03/24/08 **SESSION 2**
PRINCIPALS OF SMOKE MANAGEMENT - Basic Consideration, Smoke Obscuration and Toxicity, Evacuation Analysis

03/31/08 **SESSION 3**
PRINCIPALS OF SMOKE MOVEMENT - Flow Paths, Effective Areas, Stack Effect, Fire Pressure, Wind Effects

04/07/08 **SESSION 4**
NFPA 92A - Definitions and Design Fundamentals

04/14/08 **SESSION 5**
NFPA 92A - Stairwell Pressurization and Zoned Smoke Control

04/21/08 **SESSION 6**
NFPA 92B - Definitions and Design Fundamentals

04/28/08 **SESSION 7**
NFPA 92B - Calculation Procedures

05/05/08 **SESSION 8**
NFPA 92B - Algebraic Equations for Atria and Shopping Malls

05/12/08 **SESSION 9**
NFPA 92A & NFPA 92B - Equipment, Controls and Documentation

05/19/08

SESSION 10

COMMISSIONING & TESTING - Balancing, Measurements and Reports