

THE ENGINEERS' CLUB OF PHILADELPHIA

(215) 985-5701

www.engrclub.org

MECHANICAL ENGINEERING COURSES

AIR CONDITIONING

The cost of this 10 session course is \$550. It will cover building cooling codes, heat gain calculations, cooling and air conditioning systems design, and equipment selection. Successful completion of the Heating & Ventilation Course taught by William J. Ivey is a prerequisite for taking this course.

This course is being taught by William J. Ivey, an expert in the field, and will be held on **Thursday** evenings from 7:00 PM to 9:00 PM in a classroom at The Racquet Club of Philadelphia's building located at 215 S. 16th Street, Philadelphia, PA 19102.

- | | |
|-----------------|---|
| 03/20/08 | SESSION 1
REVIEW OF CODES THAT RELATE TO THE COOLING OF A BUILDING |
| 03/27/08 | SESSION 2
DETERMINATION OF BUILDING SPACE HEAT GAIN BASED ON BUILDING MATERIAL DATA ORIENTATION AND VENTILATION LOSS |
| 04/03/08 | SESSION 3
REVIEW OF HEAT GAIN FOR INDIVIDUAL BUILDING SPACES AND FOR THE ENTIRE BUILDING |
| 04/10/08 | SESSION 4
CHILLED WATER COOLING SYSTEMS - INCLUDING SIZING OF THE COOLING COILS, AIR HANDLING EQUIPMENT, PIPING, CIRCULATION PUMPS, AND CONTROLS |
| 04/17/08 | SESSION 5
PIPE SIZING AND PUMP SELECTION |
| 04/24/08 | SESSION 6
REVIEW AND SIZING OF THE VARIOUS TYPES OF COOLING EQUIPMENT |
| 05/01/08 | SESSION 7
VENTILATION SYSTEM DESIGN - INCLUDING AIR HANDLING UNITS AND EXHAUST FAN EQUIPMENT |
| 05/08/08 | SESSION 8
COOLING AIR SYSTEMS - INCLUDING DUCTWORK SIZING AND FABRICATION |
| 05/15/08 | SESSION 9
DUCT LAYOUT FOR COOLING OF BUILDING SPACES |
| 05/22/08 | SESSION 10
REVIEW SYSTEMS RELATING TO BUILDING LOAD |