



# Whole Building Analysis using eQUEST

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## **Introductory & Intermediate workshop on eQUEST Modeling for New Buildings**

8:30 AM - 4:30 PM, February 23<sup>rd</sup> - 25<sup>th</sup>, 2010

Room 220, Second Floor, Phillips Hall, Franklin University, 303 S. Grant Avenue, Columbus, Ohio 43215

Registration fee for the three-day workshop is discounted to \$549 (\$209 for one-day registrations)

## **Modeling Existing Buildings with eQUEST**

8:00 AM - 4:00 PM, February 26<sup>th</sup>, 2010

Room 220, Second Floor, Phillips Hall, Franklin University, 303 S. Grant Avenue, Columbus, Ohio 43215

Registration fee is \$249 for one-day registration

[Breakfast & Lunch are included in all the registrations; Free parking is available next to Phillips Hall](#)

## **eQUEST Training Topics Covered in Workshop:**

### **February 23<sup>rd</sup> - Schematic Design using eQUEST — an Introduction to eQUEST**

- Overview of eQUEST's Capabilities
- Using the Schematic Design Wizard
- Using the Energy Efficiency Measures Wizard
- Graphical/Parametric Reports
- Using the Design Development Wizard
- Using DWG files with eQUEST
- Intro to DOE-2.2 (SIM file) Reports

### **February 24<sup>th</sup> - Detailed Design using eQUEST — eQUEST's Detailed Interface**

- Intro to LEED Analysis using eQUEST
- Intro to Parameters, Expressions, and Parametric Runs
- Wizard versus Detailed Interface: Strategies and Issues
- Detailed Interface Basics: create, copy, rename, delete components, user defaults & linked components
- Detailed Interface Essentials: Opaque Constructions, Schedules (including priorities among HVAC controls), Glass Types, Geometry, Shading, Parameters, Expressions, Parametric Processing
- Daylighting
- DOE-2 simulation methodology basics

### **February 25<sup>th</sup> - Detailed Design using eQUEST — LEED analysis using eQUEST**

- LEED Analysis issues using eQUEST
- HVAC Air-Side and Water-Side: Sizing, OA (including DCV, exhaust, heat recovery, DOAS), equipment performance curves, plant equipment control, GSHP's, other topics by user request (limited)
- Utility Tariffs, Meters, and Life-Cycle Costing in eQUEST
- Quality Control Procedures and eQUEST/DOE-2.2 Results Reporting, Hourly Reports

### **February 26<sup>th</sup> – Modeling Existing Buildings with eQUEST**

- Data Requirements for Preliminary & Detailed Analysis of existing buildings
- Calibrating models to utility data for preliminary & detailed analysis
- Modeling common retrofit measures: building shell, lighting, air-side, water-side, controls
- Campuses (modeling multiple buildings)
- Quality Control Procedures

**REGISTRATION:** Attendee responsible for own Windows 95/98/ME/NT/2000/XP laptop. Pre-registration required. Extension cords are highly recommended to connect to wall power outlets. **Register at:** [www.cgbf.org](http://www.cgbf.org)