# ANN AND RICHARD BARSHINGER LIFE SCIENCES & PHILOSOPHY BUILDING

### **Project Team:**

Franklin and Marshall College

Owner: Franklin and Marshall College

**Construction Manager:** Turner Construction Company

Architect: Einhorn Yaffee Prescott Architecture & Engineering

**Structural Engineer:** Einhorn Yaffee Prescott **MEP Engineer:** Einhorn Yaffee Prescott

### **Project Data:**

Size: 104,000 sq. ft. Floors Above Grade: 3

**Total Floors:** 4

**Project Cost:** GMP of \$39 million **Bid Method:** Design-Bid-Build

**Dates of Construction:** 

December 2005 - August 2007

#### **Architecture:**

- -Georgian Revival Style
- -Brick façade, tooled to match

existing buildings

-Modern 3-story atrium acts as

core of building

-Basement Vivarium for visual research

### **Mechanical:**

- -Two roof-mounted Air Handling Units with capacity up to 50,000 cfm of supply air
- -Central Utility Plant immediately adjacent to main building contains chiller for this building
- -Basement contains domestic water heater service
- -Medium-pressure steam service from main campus service facility

#### Structural:

- -Steel framing supporting 6 ½" composite concrete slab
- -5" concrete slab-on-grade
- -2'6" foundation wall with spread footings -Roof is Vermont slate shingles supported by galvanized metal decking on structural steel

#### **Electrical:**

- -15 KV service from Franklin & Marshall main switchgear for entire campus
- -12.47 KV servicing substation transformed down to 480Y/277V secondary service voltage
- -Step down transformers to 208Y/120V for receptacles and incandescent loads
- -350 KW diesel generator for emergency power generation

## Lighting:

- -Majority of lighting operates at 277V
- -Recessed, louvered linear fluorescent luminaires for classrooms, labs, and offices
- -Recessed compact fluorescent downlights
- for corridors and circulation spaces
- -Daylight sensor photocell in atrium, dimming systems in common room and

lecture hall





Jason Weaver Lighting/Electrical Option