

# S. T. E. P. S.

Building



## Joseph S. Murray - Structural Option

Science, Technology, Environment, Policy, and Society Building

[www.engr.psu.edu/ae/thesis/portfolios/2013/jsm5242/index.html](http://www.engr.psu.edu/ae/thesis/portfolios/2013/jsm5242/index.html)

- 135,000 square foot project
- 5 stories plus Mech. Penthouse
- Constructed 8/2008 - 8/2010
- Bethlehem, PA
- Design-Bid-Build Contract
- \$62 million total cost

## PROJECT TEAM:

Owner:	Lehigh University	Bethlehem, PA
CM:	Alvin H. Butz	Allentown, PA
Architect:	BCJ Architects	Philadelphia, PA
Structural:	CVM Structures	Oaks, PA
Civil:	Barry Isett & Assoc.	Trexlerstown, PA
MEP/Fire:	Flack & Kurtz	New York, NY
Landscape:	Lager Raabe Skafte	Philadelphia, PA

### Architectural Features:

- Classrooms, Laboratories, Faculty Offices, Atrium
- LEED Gold Certification
- Brick and stone exterior masonry walls
- Decorative wood finished and structural wood planks
- Glass curtain walls, clearstories, and glass atrium
- Fritted glass artwork and custom tiling incorporate art with science

### Structural Features:

- Semi-rigid Steel Moment Frame System
- Composite Steel Deck with concrete slab
- Grade Beam and Caisson foundation

### Mechanical Features:

- Custom Air Handling Units with Heat Exchangers
- Dedicated Laboratory Emergency Exhaust System

### Lighting / Electrical Features:

- Automated photosensors to minimize electrical demand from lighting
- Daylighting emphasized through glass curtain walls and clearstories

