

UNIFIED SCIENCE CENTER

THE UNIVERSITY OF SCRANTON

SCRANTON, PA



DALE E. HOUCK

MECHANICAL OPTION

PROJECT TEAM

OWNER | THE UNIVERSITY OF SCRANTON

ARCHITECT | EINHORN YAFFEE PRESCOTT ARCHITECTURE & ENGINEERING P.C.

CONSTRUCTION MANAGER | QUANDEL ENTERPRISES, INC.

SITE/CIVIL ENGINEER | CECO ASSOC., INC.

LANDSCAPE ARCHITECT | ML BAIRD & CO.

BUILDING STATISTICS

DATES OF CONSTRUCTION | MAY 2009—FALL 2011

SIZE | 200,000 SF TOTAL; 50,000 SF RENOVATIONS

OCCUPANCY TYPE | HIGHER EDUCATION

NO. OF FLOORS | FOUR + ROOFTOP GREENHOUSE

ESTIMATED COST | \$73 MILLION



ARCHITECTURE

- Designed according to principles of **Project Kaleidoscope**, an informal alliance to build and sustain strong science, technology, and mathematics undergraduate programs
- Encourages **interdisciplinary collaboration**
- Connects sciences with campus life
- Modern design** of new construction seamlessly integrates with renovation of existing structure
- Incorporates local materials, natural daylighting and sustainable design to achieve **LEED Silver rating**

STRUCTURE

- 36" mat-slab foundation** with 3,000 psi concrete
- Structural steel framing** system with 2" composite floor deck
- Moment connections** to resist lateral loads

MECHANICAL/ELECTRICAL/PLUMBING

- (4) 52,150 CFM and (1) 5,150 CFM **100% outside air** handling units with **energy recovery wheels**, atomizing fog humidifiers and VAV supply air fans
- (2) 550 ton chillers, (2) 550 ton cooling towers, (3) primary chilled water pumps, (3) condenser water pumps, (8) hot water condensing boilers, (3) primary hot water pumps
- 3.0MVA, 12.4 kV primary supply, 277/480V 3-phase 4-wire secondary
- Emergency **natural gas generator** provides 1000kW/130kVA
- Energy efficient lighting**: Fluorescent, CFL and LED fixtures with daylight sensors
- Utilization of **efficient water fixtures**

