

# MILESTONES

BERKOWSKY AND ASSOCIATES, INC. ARCHITECTURAL AND CONSTRUCTION SERVICES VOL. XIII

## CARDIOVASCULAR RESEARCH FOUNDATION

When CRF purchased their Orangeburg, NY, building, a complete interior demolition was necessary for the reconstruction of their new research facility, now known as the Skirball Center for Cardiovascular Research (SCCR).

The 26,000 SF retrofit construction meets current AAALAC guidelines. The facility includes research laboratories, operating rooms and vivarium, as well as administrative offices, conferencing and video conferencing centers.

Construction was successfully completed within budget in under nine months.



One of two, top-of-the-line cardiac catheterization laboratories equipped with state-of-the-art imaging software that facilitates sophisticated analyses during and following device implantation.



Administrative offices



Multi-purpose conference room



Vivarium



Research laboratory

INSIDE 

2 Clarkson University  
LEED® Gold Certified

4 Schering-Plough  
Stability Suite

# CLARKSON UNIVERSITY TECHNICAL ADVANCEMENT CENTER



Berkowsky and Associates designed Clarkson University's first LEED® Certified building and successfully achieved Gold certification from the U.S. Green Building Council (USGBC).

The two-story 18,500 square foot Technical Advancement Center (TAC) "infill" addition connects the Science Building to the Education Resource Center (ERC) with program requirements that include research laboratories, a 50-seat lecture hall, student lounge/study hall and faculty offices.



Technical Advancement Center

Above: The southern exposure with full height insulated glass, gathers daylight for first floor interior offices and winter solar heat gain. In summer, sunshades provide solar shading. Solar panels, foreground, provide domestic hot water.

TAC's "green" design, based on LEED principals, is evident throughout the building through displays and signage to alert Clarkson students, faculty and staff of the practices and advantages of "green" construction.

Right: Interior wall offices capture daylight through glazed partitions.





The rain-harvesting system is located in the building's naturally ventilated lobby.

Factors such as building orientation, site development and resource conservation, selective building materials, energy-efficient systems and construction practices were all carefully considered during the preliminary design phase and were integrated to maximize sustainable design.

### Methods

- Materials used throughout the project include recycled content, certified wood and regional materials.
- Plumbing fixtures are "low flow." A rainwater harvesting system is utilized for dual-flush toilets.
- Pollutant and source-control measures were employed during the construction process and include 85% filters in the air-handling units.
- Construction methods employed indoor air quality management and construction waste management diversion, as well as soil erosion and sediment control.



High-efficiency microturbines provide heating, cooling and electricity for the TAC building. An interactive display of the system's efficiency is located in the lobby.



Second floor study area



Second floor study area and meeting room

# SCHERING-PLOUGH (NOW MERCK & Co., INC.)

A new Stability Suite was designed and constructed within an existing high-bay warehouse and provided our client with walk-in and reach-in environmental chambers of varying temperature and humidity requirements. Also included was a stability records room with a high-density filing system, a laboratory and office area with support space.



Reach-in environmental chambers



Corridor that leads to walk-in environmental chambers



Stability records room with high-density storage

## IN DESIGN AND CONSTRUCTION, EXCELLENCE IS IN THE DETAILS.

**Facility planning** – budgeting, feasibility and space planning studies

**Architecture** – from concept design to final construction documents

**Construction** – construction management, consultation and general contracting

New construction, additions, alterations, renovations to occupied buildings, retrofits, tenant build-outs and historical restorations

Commercial offices, warehouse and industrial facilities, manufacturing plants, research and specialized laboratories, healthcare facilities, and colleges & universities

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