



BETTY IRENE MOORE NATURAL SCIENCES BUILDING AT MILLS COLLEGE



Project Summary

The 26,000 Sq ft building is located in the heart of the science community at Mills College. Completed in 2007, the building houses state-of-the-art teaching facilities but its modest size and design is in scale with the campus. The project demonstrates and serves as a teaching tool for green building technology. It is enhanced with features such as a rainwater recycling sculpture and cistern, women in science exhibit, dichroic glass installation in skylight well, and a supersized periodic table of elements.

Green Building Features

Site Design & Community

- Lobby designed to be 'living room of the building' with open stairs, landings and outside views to make an easy place to stop and chat.
- Composition of windows and placement fit into the vernacular heritage of campus.

Resource Conservation

- Photovoltaic panels on roof.
- Extensive use of daylighting.
- Evaporative cooling and radiant floor heating.
- Energy systems tied together in Energy Resource Monitor in lobby for visitors to see building's energy generation, performance and comparison to previous weeks or years.
- Radiant slab heating.

Commercial Construction

5000 MacArthur Blvd.
Oakland, CA 94613

**LEED -New
Construction
Platinum Certified**

**Recognition
per City Council
Resolution 81826**

City of Oakland

Green Building
Case Study

BETTY IRENE MOORE NATURAL SCIENCES BUILDING

Indoor Air Quality

- Classrooms and labs are on single loaded corridors, allowing daylight and views to the outside in all spaces.
- Under-floor air circulation.
- Operable windows allow users to fine tune their comfort and provide abundant fresh air.

Resource Conservation

- The renovation was planned to protect and maintain an existing row of mature trees to aid in making the building belong on its site.
- Recycled material used in indoor materials.

Water Conservation

- Native landscaping.
- Rainwater recycling sculpture for catchment and re-use.

Environmental Savings At A Glance

- Performs 89% more energy efficient than a typical Bay Area lab.
- Water savings are 61%, or 338,400 gallons per year.
- \$20,000 savings in energy costs annually.
- Energy use surpasses Title 24 requirements by 43.3%.

"The willingness of facilities (Mills College) to be open-minded in pursuing strategies that were wholly new to them was critical, as was the ability of high-ranking administrators to see the bottom line benefits of the design and sustainability features."

Karen Fiene



Project Team

Architectural Team: EHDD Architecture - executive architects, 500 Treat Ave. # 201, San Francisco 94110 Karen Fiene Architects - co-design architect, Mills College campus architect, 5000 MacArthur Blvd., Oakland CA 94613, and Peter H. Dodge, FAIA - consulting architect, 500 Treat Ave., Ste. 201, San Francisco, CA 94110

General Contractor: James R. Griffin Construction, Inc., 39199 Paseo Padre Parkway, Suite B, Fremont, CA 94538
Mechanical Engineering: Rumsey Engineers, 99 Linden Street, Oakland 94607

Electrical Engineering: Silverman and Light, 1201 Park Ave., Ste. 100, Emeryville, CA 94608

Water Collection System Design: Rumsey Engineers, 99 Linden St., Oakland, CA 94607

Metal Sculpture & Fountain Design: Archie Held Studio - #5 18th St., Richmond, CA 94801

Sculptural Forms: Dorothy Lenchan Architectural Glass, 2855 Mandela Pkwy, Suite 11, Oakland 94608



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Learn More! www.oaklandgreenbuilding.com