

WINTERGREEN

A monthly update on Steven Winter Associates, Inc.'s work in the realm of Energy Efficient, Sustainable, and High-Performance Buildings

Volume 5, Issue 3

September, 2003

LEED Workshops, and New Research on the 'Cost of Green'



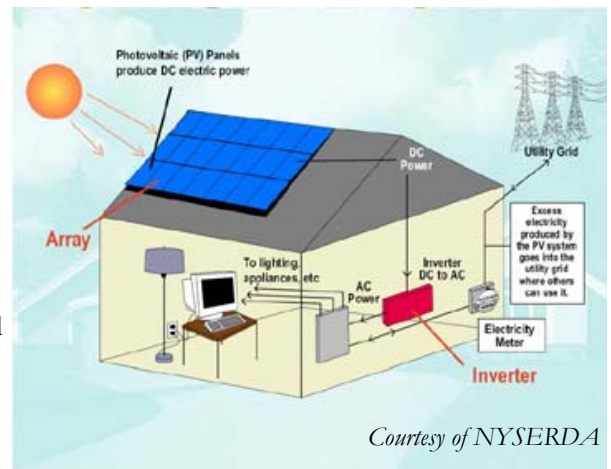
John Amatruda, Senior Associate and lead of Steven Winter Associates' "Green Group," was recently selected by the **U.S. Green Building Council (USGBC)** as an official LEED Workshop instructor. Amatruda was one of only 14 new instructors selected by the USGBC after a nationwide review of applicants. LEED Workshops are given around the country to teach attendees the basics of high-performance design and the LEED rating system, and to prepare candidates to take the LEED Accreditation Exam. The growing demand for green buildings, and in particular for LEED-accredited design professionals, has boosted requests for workshops throughout the year. Amatruda's current schedule includes workshops in Albany, New York on October 14, and in Stamford, Connecticut on December 9. In related news, on November 12 Amatruda will present the initial findings of a study by SWA on "The Cost of Green," at the USGBC's "GreenBuild" International Conference and Expo in Pittsburgh. Amatruda will co-present a session, "Defining LEED Costs for the U.S. General Services Administration," which will summarize a one-year study by SWA for the GSA on the anticipated costs of achieving LEED ratings--specifically for new courthouses and office building modernizations. Co-presenters of the study will be David Eakin, GSA's Chief Engineer in the Office of the Chief Architect, and Beth Heider, Vice President of Skanska, USA, Inc.

Cutting Energy at the Cutting Edge



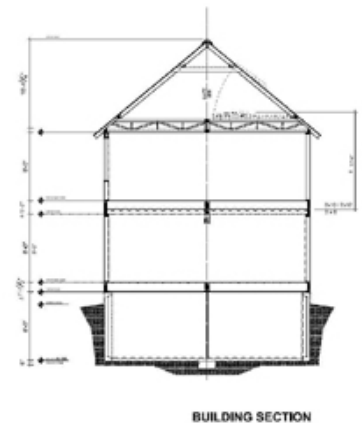
Continuing to build on their existing relationship, the **U.S. Department of Housing and Urban Development's Partnership for Advanced Technology in Housing (PATH)** program and the **Habitat for Humanity Westchester (HfHW)** are developing six affordable homes (three side-by-side duplexes to be built in two phases) on a plot of land donated by the City of Yonkers, New York. SWA made recommendations on the building systems and environmentally friendly products and design. Among the project

features: structural insulated panels (SIPs); insulated concrete forms (ICFs); high-efficiency direct-vent boilers; and waste-water heat recovery devices. But what pushes these homes to the cutting edge is renewable energy in the form of PV panels. The roof area will allow for 10 120-watt panels, equivalent to a 1.2 kW DC system on each building. One system will be oriented to the southwest and the other two will face east-southeast. The initial cost of the PV systems is being subsidized by New York State through HfHW's participation in the PV system and NY ENERGY STAR Labeled Home Demonstration Project for which SWA is a contractor. A celebration of the completion of these homes is scheduled for October, 23 and will be attended by Millard Fuller (left), founder of Habitat for Humanity. Stay tuned for details.



Affordable Modulars in the Elm City

Affordable, environmentally friendly homes are being built in New Haven, Connecticut by **Jonathan Rose Companies**, recipient of the 2003 Global Green USA award. This new construction project is funded through a Hope 6 grant sponsored by the **U.S. Department of Housing and Urban Development**. Sited in what was once considered a high-risk, low-income area, these three and four bedroom, 1344 and 1540-square-foot modular detached homes are designed to blend with the surrounding residential neighborhood and to spur further revitalization. SWA was asked to provide systems development and architectural/engineering design. High-efficiency furnaces, hot water heaters, and energy-efficient appliances are to be installed, as well as linoleum flooring and carpets with recycled backing. Fiber-cement siding will be used in lieu of vinyl siding typically applied to the exteriors of most modular homes. The homes are designed for “visitability,” with such amenities as wrap-around porches and access ramps. This project will provide new, efficient, environmentally healthy homes to an otherwise previously blighted neighborhood.



Who's Got the Power?

Thomas Raineri, an employee of the **U.S. Department of Commerce's National Oceanic and Atmospheric Administration (NOAA)**, has been recognized for his role as on-site coordinator, by the “You Have the Power” campaign. With help from SWA, Raineri developed an energy-efficient operations room at the Maine Caribou Weather Forecast Office. SWA performed an extensive energy analysis, using DOE-2 modeling to determine an energy-savings design strategy, and also examined the effect of the sun's azimuth on the incidence of glare. The building systems design, also performed by SWA, included the incorporation of a standing-column geothermal heat pump. The innovative and efficient design strategies resulted in a 20% energy savings above federal code. The “You Have the Power” campaign, sponsored by the **U.S. Department of Energy's Federal Energy Management Program (FEMP)**, was designed to showcase federal employees who have developed and pioneered energy saving projects. These “energy champions,” as they are called, serve as role models for other organizations and future endeavors. To increase the awareness of energy efficiency, project posters detailing the success of the Caribou Weather Forecast Office will be distributed to a number of associated agencies in October, which is “Energy Awareness Month.”



For more information
visit the SWA Website:
www.swinter.com

WinterGREEN is published monthly by Steven Winter Associates, Inc., 50 Washington Street, Norwalk, CT 06854. SWA is solely responsible for content and cost of publication. For further information contact Michael J. Crosbie at SWA, phone 203-857-0200 ext. 210, fax 203-852-0741, e-mail: mcrosbie@swinter.com. Visit us at www.swinter.com.