

# WINTERGREEN

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

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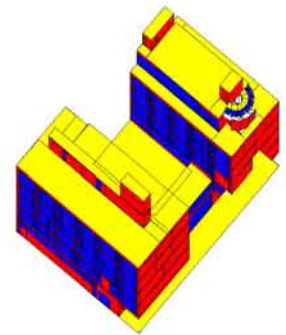
## *Biosciences in Tune with the Biosphere*

The **University of Maryland's** new Bioscience Research Building, now being designed, is shooting for a LEED Silver rating, and Steven Winter Associates, Inc. (SWA) is helping the client and architect/engineer (**Ballinger**) to make the grade. Currently in the schematic design stage, SWA is providing LEED consulting and energy efficiency analysis. The 126,000-square-foot addition to the university's existing biology and psychology facility will enclose a courtyard, capturing daylight and views for perimeter labs and offices. Among those resource-conserving strategies currently under consideration: enthalpy recovery, gray-water re-use, water conservation, demand-based ventilation in the auditorium and larger classrooms, and rainwater for irrigation. Along with suggesting conservation strategies, SWA is also helping to guide selection of environmentally preferable materials, and implementation of indoor environmental quality design considerations. For more information, contact: Ian Graham, 203-857-0200, ext. 241, or at [cigraham@swinter.com](mailto:cigraham@swinter.com).



## *The Cost of Savings: Do the Math*

The **New York State Energy Research and Development Authority's (NYSERDA) EnergySmart New Construction Program (NCP)** can have a huge impact on putting buildings on an energy diet, while saving big bucks, too. A case in point is the design for a new school, **Lycee Francais de New York**, designed by **Polshek Partnership Architects**. NYSERDA asked SWA to model and analyze the school's projected energy use, and suggest ways to cut it. SWA ran a simulation of the 157,000-square-foot school using DOE-2.1E energy analysis software. Adopting a slate of energy efficient measures (EEMs) suggested by SWA would save energy costs in the neighborhood of \$125,000 annually, compared to a building with the same massing that complies with the 1991 New York State Energy Conservation Construction Code (the new 2002 Energy Code does not apply). Compared to the tougher standards of an NCP-compliant building, the energy-cost savings are approximately \$20,000 annually. The higher efficiency of the building, as designed, reduces energy costs by 36% when compared with the 1991 Energy Code, and by 6% when compared to NCP. The total incremental cost of all the energy-savings measures being considered is about \$42,000. The package of EEMs (some of which include low-e glazing and higher efficiency chillers) is eligible for an the NCP incentive of about \$22,000. When you include the incentive, the payback on the energy efficiency measures will be one year. Sounds like a no-brainer. For more information, contact: Jonathan Tham, 203-857-0200, ext. 239, or at [jtham@swinter.com](mailto:jtham@swinter.com).



## ***Taking It to the Schools: Internet Training***

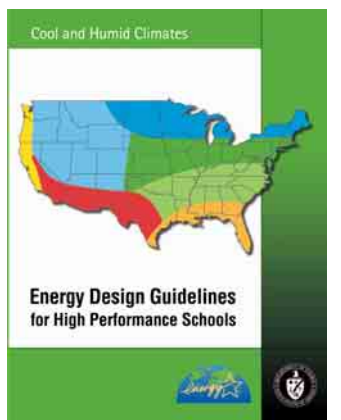
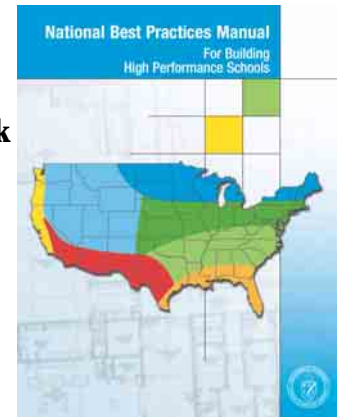
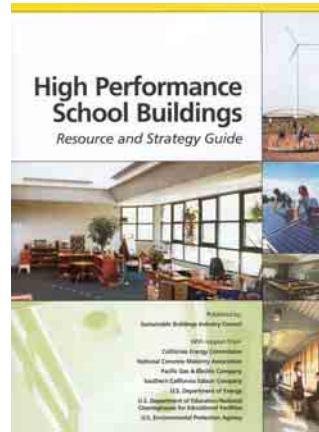
The **Sustainable Buildings Industry Council (SBIC)** has just been awarded a two-year, \$400,000 contract to develop and conduct "internet training for energy-efficient school design and operation" by the **New York State Energy Research and Development Authority (NYSERDA)**.

The online training will be based on DOE's new school design guidelines, *Energy Design Guidelines for High Performance Schools* and *National Best Practices Manual*. The project is a natural fit for SBIC, a national organization (managed by SWA) that has become the authority on high-performance school buildings, with its *High Performance School Buildings Resource and Strategy Guide* and workshops for school decision-makers and A/Es. SBIC's team includes: **New Jersey Institute of Technology; Eley Associates; Innovative Design; and Building Media, Inc.** SBIC is already working with Building Media to develop a web-based tutorial on high performance school buildings (HPSB) that will teach others how to deliver authoritative, persuasive, and consistent presentations about HPSB to key groups in their own communities. For more information, contact: Ellen Larson, 202-628-6100, ext. 211, or at [el Larson@swinter.com](mailto:el Larson@swinter.com).

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## ***Winter: Australian for Green***

The Francis Greenway Society, an Australia-based association of architects who host open discussions of concern to the practice of architecture in Australia, in association with Australia's *The Architecture Show* magazine, sponsored The Green Buildings Conference and Green Building Awards in late November, 2002 in Sydney, Australia. As keynote speaker at its opening reception, Steven Winter talked about the "U.S. Green Building Movement," focusing on the status and trends of green architecture in America, including the driving forces for green and its impact on regulations, incentives, voluntary programs, building costs, consumers, and businesses. Winter also discussed SWA's role in the U.S. Green Building Council and the business opportunities, risks, and rewards for architects that are offered by going green.



For more information visit the SWA Website: [www.swinter.com](http://www.swinter.com)

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