



DELAWARE VALLEY GREEN BUILDING COUNCIL



Green Schools Conference & Expo

Green Schools for Everyone within a Generation

- Learn what goes into creating sustainable learning environments for students, teachers, staff, and administrators - approximately 60 million people - who go to school every day.
- Discover tools and resources that are available that help make green schools possible
- Make a tremendous impact by promoting the design and construction of new green schools and by greening the approximately 99,000 existing public schools, by improving student performance and health, while decreasing operational costs and protection the environment.
- Build and renovate schools to meet their needs, a responsibility that represents the largest construction sector in the United States — a total of \$80 billion from 2006 to 2008.

KEYNOTE PRESENTER

Scot Horst, Senior Vice President, LEED As Senior Vice President of the U.S. Green Building Council's LEED Program, Scot Horst significantly influences the global course of sustainable design and building performance. Scot brings genuine expertise to helping the built environment intersect with natural systems in positive and ultimately regenerative ways. His professional experience includes the private and nonprofit sectors as president of both 7group, a leading green building consultancy, and Athena Institute International, a nonprofit dedicated to the lifecycle assessment of buildings.

EDUCATION OPPORTUNITIES

Two tracks of education sessions including case studies from area school districts and USGBC webinars will be given throughout the day, plus LEED credentialing information will be provided by DVGBC staff. See session details on the next page...



EVENT INFO

When

Thursday, May 12, 2011
10:00 a.m. - 5:00 p.m.

Where

Penn State Lehigh Valley
2809 Saucon Valley Road
Center Valley, PA 18034

Cost

DVGBC Member: \$55.00
Non-member: \$75.00
School Employee: \$35.00
Student: \$15.00

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www.dvgbc.org/event/Lehigh_Valley_Conference

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Education Opportunities

EDUCATIONAL SESSION TRACK

Selinsgrove Elementary School Renovation and Expansion Case Study | 1:00 PM - 2:00 PM

Speakers: Mr. Jim Martin, EI Associates; Dr. Robert Berghage, PSU Green Roof Research Center; Mr. Todd Reed, Energy Opportunities Inc.
Recipient: 2010 Green Building Award by Green Building Association of Central PA.
Talk with the project team on how they utilized an integrated design process to create a high performance building and healthier, more productive learning environment. Review how they utilized daylighting strategies, recycled materials, vegetative roof, on-site stormwater solutions and more.

Bethlehem Area School District Solar Program | 2:30 PM - 3:30 PM

Speakers: Dr. Joseph Roy, Superintendent of Schools BASD and Mr. Fazil, P.E., District Engineer, D'Huy Engineering
Phase 1 of the project started in October 2010, which included installing solar Photo Voltaic (PV) facilities at 5 district schools. Approximately 2 million kWh of electricity will be generated each year from these ground mounted, roof mounted and parking lot canopy installations, which is the equivalent to the Carbon produced annually by 269 passenger cars. The Phase 1 BASD Projects are estimated to save the school district more than \$1.6M in energy costs over the life of the projects.

Environmental Stewardship and Sustainability Principles in the Curriculum | 4:00 PM - 5:00 PM

Speakers: Mr. Rob Aptaker, Seven Generations Charter School and Mr. Michael Walsh, PA Dept of Education
Using both indoor and outdoor environment as teaching opportunities, students continue their classroom lessons beyond the school yard. Explore creative ways to include sustainability in your curriculum and learn more about the Pathways to Green Schools Program.

CONTINUING EDUCATION USGBC WEBINAR TRACK | EACH LEED SESSION IS APPROVED FOR 1.5 GBCI CE, 1.5 AIA/CES (LU) CREDITS.



IEQp1: Common Pitfalls and How to Avoid Them | 10:00 AM - 11:30 AM

Moderated by Ms. Natalie Sobrinski, P.E. LEED AP, Lehigh Valley Engineering
As project teams attempt to achieve the requirements of IEQp1, they often encounter common issues surrounding calculations and documentation. This session provides strategies for HVAC and other design professionals to overcome these obstacles in LEED projects and successfully meet the minimum indoor air quality requirements set by ASHRAE Standard 62.1-2007 and IEQp1 in multiple building types.

Energy Consumption & EA C1: Top 10 Energy Efficiency Measures for Load Reduction | 1:00 PM - 2:30 PM

Moderated by Mr. Ahmad Mahmud, P.E. LEED AP, Building Systems Engineering Group LLC
The first step for reducing energy consumption of a building is to reduce the energy loads on the building. Consideration of load reduction techniques early in the design phase often comes at low or no added cost. During this webinar you will learn about best practices and top 10 strategies to reduce the energy loads on buildings. The session will highlight energy simulation as a design tool and key to successfully implementing EA Credit 1. The webinar will feature commercial building projects certified under the LEED for New Construction rating system.

LEED for New Construction - Materials & Resources | 3:30 PM - 5:00 PM

Moderated by Mr. Larry Rowland, CCPR, LEED AP, Lehigh Cement Co. LLC, White Cement Division
This session reviews the Materials and Resources Prerequisite and Credits for the 2009 LEED® Green Building rating system for New Construction and Major Renovations. It identifies potential strategies and relevant building team members for achieving the various credits. This session will describe key Materials and Resources metrics and standards and give designers, contractors and owners concrete ideas for incorporating sustainable strategies into their projects.