

SDC Newsletter - August 2011

Bill's Green Architect Show

Live **Saturdays - Noon to 1 PM** - New YorkTime
Host: **Bill Bobenhausen, FAIA, LEED** Architect/Author/Educator



Paul Buck with Bill and Dino
08/20/2011



Eva Finkelstein 08/13/2011

Call-in Number **914-693-5700**

www.sdcollab.com/radio/htm

1230 **WFAS** AM world-wide <http://wfasam.com>

Upcoming Schedule, Program Themes, Advertising,
and Podcasts of Previous Shows



Bina Indelicato

Saturday August 27, 2011

Green Consultant - Eco Eevolutions LLC

Greening of US Open Tennis Tournament

Upcoming Guests Include (see webpage for full list):

Marc Karell, P.E., CEM, Climate Change & Environmental Services

George Schieferdecker, AIA - Partner, BSK Architects LLP

Mahadev Raman, ARUP, Managing Principal - MEP Engineers worldwide

Joseph Corbalis, Flooring Advisor, Founder - The Westchester Business Connection

Robert (Rob) Watson, Scientist, - Ecotech International

Solar Punch Band - Introduction of New Album - worldwide entertainers

Dominick DePinto, PE - Managing Principal, ads ENGINEERS

Gregory W. Wolf, Construction Manager, Alexander Wolf & Son

Jonathan Kruk, Master Storyteller, Holiday Season - Seasonal stories

**LISTEN LIVE, OR ON PODCASTS,
THEN SPREAD THE WORD!!!**

Newsletter Editor:
Bill Bobenhausen, FAIA

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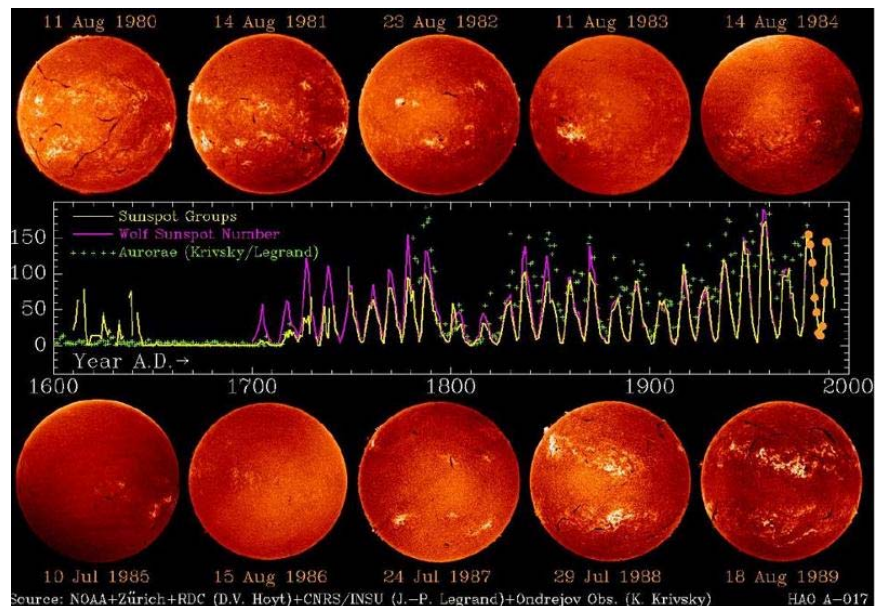
USGBC National
USGBC Urban Green
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Sun Spots



NASA Images - Sun Spot Activity Over Time

Regions on the sun that appear dark because they are cooler than the surrounding photosphere are known as "sunspots". In fact they are very bright (about 1500 K) - but cool and dark compared to the temperature of surrounding areas of about 4500 K. Sunspots develop and persist from hours to months.

The diameter of sunspots can be as large as about 50,000 km - making them large enough to be seen with the naked eye. They come in groups, but groups of more than about 10 are rare. Sunspot occurrence is used to help predict weather and radio/satellite communications.

The first measurements for solar rotation were made by tracking sunspots. Galileo used this method to deduce that the Sun had a rotational period of about a month.

Non-Renewable Energy Sources in New York State

Due largely to the hydropower of Niagara Falls (see below), renewable energy sources produce about 20% of the power used in New York State (much higher than the average for states of about 13%) Even so, such a statistic is, of course, exclusive of the energy that New Yorkers would need if the sun didn't appear at all each day - and the temperature approached absolute zero (Brrrrrr!).



It is not easy for a utility like Consolidated Edison to provide the power demanded by New Yorkers for buildings, industry, transportation, and other needs at all times. Always appreciate that "conservation" has displaced much of the need for new generating capacity - and can be a key part of the plan

Hope, reliance, and controversy have surrounded the Indian Point New York nuclear generating plants since they were built with fanfare of heralding the era of "energy that is too cheap to meter" (prediction... off the mark).

Indian Point 1 was a 275-megawatt plant that started operations on September 16, 2, and was shut down on October 31, 1974 because the emergency core cooling system did not meet regulatory requirements. All spent fuel was removed from the reactor vessel by January 1976. Indian Point 2 and 3, were built in 1974 and 1976 respectively. Together they generate a sizable portion of New York City's electricity. Also realize that nuclear plants form a key part of base load which cannot be switched "on and off".

SEE
LINKS
ABOVE



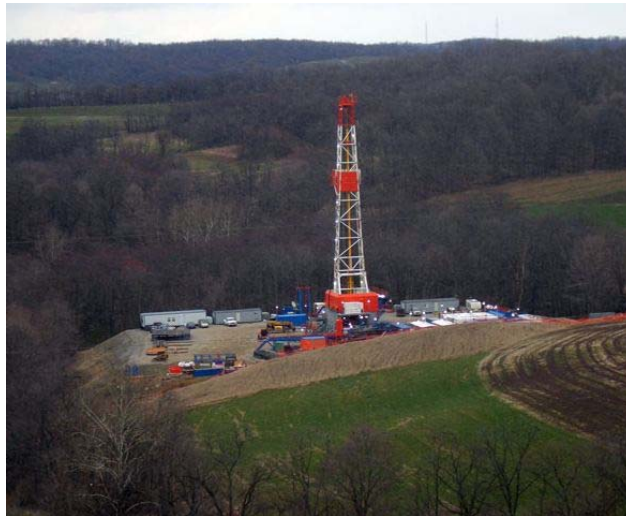
Raising the Clearwater's sail - to depend on windpower!
Click image for Clearwater's Indian Point "Fact Sheet". Also see "Fact Sheets" by others to gain full perspective.

HYDRO-FRACKING

Hydraulic fracturing, often simply called fracking, is the process of propagating a fracture in a rock layer, and employing the pressure of a fluid (usually a chemical) to usually extract natural gas from a wellbore drilled into reservoir rock formations. Much controversy exists about the propriety of the process in many cases - including in upstate New York (principally the southern tier).

Governor Cuomo has appointed a panel of business, environmental and government representatives charged with advising New York officials on regulating hydrofracking. The panel met for the first time on Thursday, August 18th in Albany or via videoconference. The goal was to lay out the groundwork and a timeline for making recommendations in several areas. Those include ensuring that the state has adequate resources to monitor drilling in the natural gas field known as the Marcellus Shale and minimizing any adverse impact on upstate communities where thousands of new wells are expected to be drilled. One of the key issues is the provision of adequate oversight by the New York State Department of Environmental Conservation.

SEE
LINKS
ABOVE



Hydrofracking Rig
Click Image for NRDC factsheet

NYSERDA - New Construction Program Assistance

**Sustainable Design Collaborative LLC
serves NYSERDA as one of only
fourteen Technical Assistance (TA) providers Downstate.**

An Independent Contractor to:



**Although the economy has slowed program participation, New York based Owners and Architects of
New and Major Renovation Projects should still consider the substantial life-cycle benefits of the
NYSERDA New Construction Program.**

NYSERDA program summary: http://www.nyserda.org/programs/new_construction/faqs.asp

SDC LEED Pictorial

Sam's Point - The Nature Conservancy
opened 2005 - photos below August 2011

Sam's Point Conservation Center **Dwarf Pine Ridge Preserve, NY**

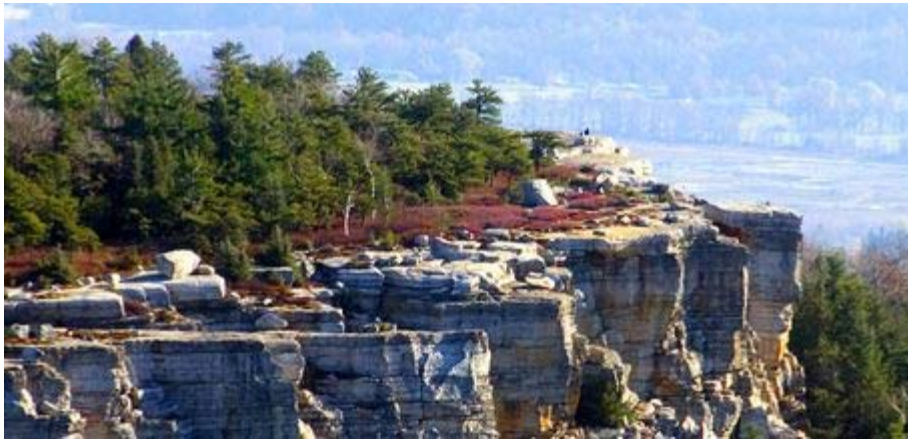
2005 AIA Westchester/Mid-Hudson Award Winner:
Design and Sustainability



Matthew Bialecki Architects
O'Dea Lynch Abbatista - MEP Engineers
Sustainable Design Collaborative LLC - LEED/Green Consultant
Donald Watson, FAIA - Exhibit Designer

SDC consulted with The Nature Conservancy on the design of this new headquarters building. The Pine Ridge Preserve contains the best example of a ridge-top dwarf pine barrens in the world. It is part of the 90,000-acre Northern Shawangunk Mountains, whose cliffs, summits and plateaus form a unique landscape of extraordinary ecological significance.

Great care was given to the design of a building that would be particularly energy conserving while utilizing natural daylight. Construction materials were selected for their environmentally-preferable qualities including recycled content and local origin.



Multi-directional sun-controlled daylight



Natural Structure: Wood & Stone



Mural Design by Donald Watson, FAIA



Sam's Point Conservation Center (and Museum)

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