

SDC Newsletter - Summer Solstice 2011

"Bill's Green Architect Show"

In-studio guests, Live studio call-ins: 914-693-5700 tech-info, "green" music
Hosted by Bill Bobenhausen - see below for upcoming guests

Live every Saturday - 12 Noon to 1 PM Eastern
1230 WFAS AM (Westchester/surrounding areas)
Live Internet to listen to the show <http://wfasam.com>

[Get added to subscriber list for Podcasts](#)

info: <http://www.wfasam.com/BillsGreenArchitectShow.html>

[Rates/Info for 10 or 20 second AD spots.](#)



Photo location: Home of Susan R. overlooking the Hudson River in HOH. I-Phone pic by James Dean Conklin, leader of Solar Punch, "SDC's official band" who WILL play at our yearly Summer Solstice Party at

The Non-Political Phenomena of Manhattanhenge

*Maud's Tavern across from
Train Station in Hastings-
on-Hudson.*

**For SDC Staff/Invited
Guests**

Others wishing to Join: **\$75 in
advance**

**Open bar, munchees,
choice of great entrée,
dessert**

email:
jinhuang@sdcollab.com
for availability and
reservation

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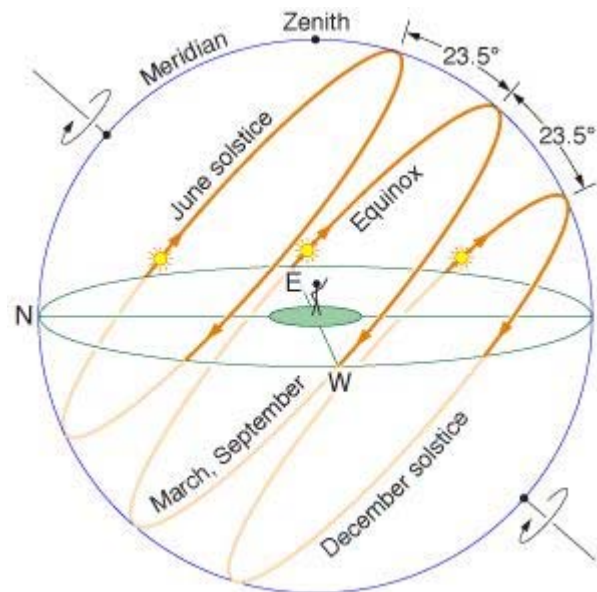
@BillFAIALEED

SDC a member of the:



Looking "West" during "Manhattanenge".
Actually 29 degrees North of West

Should we thank Mayor Bloomberg for pushing through the "law" that provides for the poetic and this year well publicized "Manhattanenge" display. Maybe it was really the work of Fiorello or David Dinkins? All it really took was the logical development of Manhattan Island with major avenues running parallel to the Hudson River, with crosstown streets perpendicular to the avenues.



Apparent Sun Position

Many solar basics can be seen or deduced from the "Apparent" Sun Position diagram above that suffices for New York City (considered to be "40 degrees North latitude"). And remember, sun movement is always apparent - it's the earth that moves, not the sun. Working from the lowest

"winter" sun path:

American Institute of Architects
National

AIA New York State

Construction Specifications
Institute

International Code Council

USGBC National

USGBC New York
Urban Green Council

, USGBC New Jersey

USGBC Long Island

- In Winter, the sun rises far south of east. And on the Winter Solstice (December 21st) the sun rises 31 degrees south of east - and sets, believe it or not, 31 degrees south of west. The Noon altitude angle of the sun on the Winter Solstice is equal to: $90 - \text{Latitude} + \text{declination} = 90 - 40 + (-23.5) = 26.5$ degrees (pretty low and casting long shadows - overhangs please).
- Spring and Fall, the sun rises generally east and sets generally west. On the Equinoxes (e.g., March 21st and September 21st) the sun rises precisely due east and sets due west. And of course the sun is now much higher in the sky. The Noon altitude angle of the sun on the Equinoxes is equal to: $90 - \text{Latitude} + \text{declination} = 90 - 40 + (-0) = 50$ degrees.
- In Summer, the sun rises north of east - and sets north of west maximizing on the Summer Solstice when the angle north of east and west is about 31 degrees. Look at a google or any other accurately oriented map - Manhattan island and it's "N-S" streets run about 29 degrees to the west of south. Since on May 28th the sun sets 29 degrees north of west it can be seen directly at the end of the street grid. The sunset then moves a little further north (31 degrees in New York) for the solstice, and then back to Manhattanhenge position by July 13th.

Fascinating is the fact that the sunset angle only changes by about 2 degrees over 36 days (May 28th until July 13). I learned long ago watching "The Lone Ranger" show that solstice means "when the sun stands still." Very helpful to know in those barbaric "Pre-APP" days. And no wonder why SDC has parties every year to celebrate the Summer and Winter Solstices.

NYSERDA - New Construction Program Assistance Funding Still Available

An Independent Contractor to:



Applications have slowed due to the economy. But all New York based Owners and Architects of substantial projects should still consider the substantial life-cycle benefits of the NYSERDA New Construction Program. Benefits and incentives are maximized if identified EARLY in the design process (i.e., schematic design). Our firm, Sustainable Design Collaborative LLC, serves NYSERDA as one of only fourteen Technical Assistance (TA) providers in the following downstate counties:

Zone 5 - Columbia, Delaware, Dutchess, Greene, Orange, Putnam, Rockland, Sullivan, Westchester,

and Ulster
Zone 6 - Bronx, Kings, New York, Richmond, Queens

TECHNICAL ASSISTANCE

Energy Analysis, Green Building Services, Building Commissioning Services, Design Team Incentives

FINANCIAL INCENTIVES

Pre-Qualified Measures, Custom Measures, Whole Building Design, Green Building Option (LEED or NY-CHPS), Natural Gas Incentives

BONUS INCENTIVES

Applicant LEED Incentives, Demand Response, Energy Storage/Electric to Non-Electric Cooling, Super-Efficient Chiller

For detailed program info go to the link below. After reviewing that information, please contact bill@sdcollab.com to discuss timing and options for NYSERDA NCP program participation.

The NYSERDA program summary can be found at:

http://www.nysERDA.org/programs/new_construction/faqs.asp

Upcoming Schedule: "Bill's Green Architect Show" - see above

Saturday June 25, 2011 - Interview at 12:15

Michael Shilale, AIA, LEED

Michael Shilale Architects, LLP

Former President AIA Westchester Mid-Hudson Chapter

Saturday July 2, 2011 - Interview at 12:15

Amy (Parekh) Mehta

Pace Law School Recent LLM (Environmental Law) Graduate

MOVED TO JULY ISSUE

**"Historic Oil Prices in Perspective" and
"Fracking in New York State"**

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