



## Wednesday, June 22, 2011

7:30 - 8:00

### Registration and Networking Breakfast

Start off your conference experience on the right foot – enjoy breakfast with colleagues and visit our sponsor displays.

8:00 - 9:00

### Engineered Wood, Sustainability and Green Building Practices

1.0 HSW/SD and 1.0 GBCI

After this session, you will be equipped to: define and discuss sustainability issues; compare construction materials for "green" compatibility; identify and select various Green Rating Tools; compare/contrast Green Building Programs; discuss EWP framing systems recognized as "green" by current Green Building programs; and evaluate various EWP products based on the deconstruction/reconstruction principal.

SPEAKER: Nordic

9:05 - 10:05

### Ventilated Rainscreen for Improved Moisture Management

1.0 HSW/SD and 1.0 GBCI

During this presentation you will explore moisture transport mechanisms in vertical building assemblies, determine the function and benefits of a rain screen, and review strategies for drainage and drying in vertical building assemblies.

SPEAKER: Cosella Dorken

10:05 - 10:15

### Break

10:15 - 11:15

### Cost-Effective Energy Savings with Drain Water Heat Recovery

1.0 HSW/SD and 1.0 GBCI

Drain Water Heat Recovery technologies have been widely designed into residential and commercial buildings in Canada and many other countries. This course shall provide you with a thorough understanding of how proven Drain Water Heat Recovery systems work and how to include them in the design of homes, multi-residential buildings and many commercial buildings, including health care, restaurants, laundromats, and prisons. You shall also be provided with general guidelines of energy savings and budgetary costing for most of the more common applications. Furthermore, upon completion of this course one will have an intuitive sense about where and when to consider Drain Water Heat Recovery technologies and the value that these technologies can bring, both in payback and potential LEED® point contributions.

SPEAKER: Renewability



11:20 - 12:20

### Designing with ICF

1.0 HSW/SD and 1.0 GBCI

This program introduces Insulated Concrete Forms (ICF) as a construction technology as well as highlights the benefits of ICF construction for builders and occupants. By the end of the program, participants will have the information and knowledge required to design with ICFs.

SPEAKER: Amvic

11:20 - 1:10

### Networking Lunch

1:15 - 2:15

### Mineral Wool Insulation: Sustainable Solutions for Thermal, Fire and Sound Control

1.0 HSW/SD and 1.0 GBCI

This program will focus on the unique properties of mineral wool insulation and how it can improve the wall assembly performance related to thermal, fire, water, and sound control.

SPEAKER: Roxul

2:20 - 3:20

### Log and Timberframe Sustainable Homes

1.0 HSW/SD and 1.0 GBCI

Provides an overview of the sustainable benefits of using wood as a building material and includes discussions on forestry practices, sustainability issues, energy efficiency, and log home systems and designs.

SPEAKER: Confederation Log Homes

3:25 - 4:25

### Small Wind Turbines: A Renewable Energy Solution for On-Site Generation

1.0 HSW/SD and 1.0 GBCI

This course provides an overview of small on-grid connected wind turbines. The goal of this presentation is to educate design professionals, and anyone interested in on-site renewable energy, on the basics of evaluating different turbine models and integrating them into projects. On-site renewable energy is one of the best ways to create a net zero energy, sustainable project and this course will guide you through this design and implementation process.

SPEAKER: UrWind

4:30 - 6:00

### Networking Event

Close out the evening with a networking reception and have another look at the vendor displays.

# Meeting the Architecture 2030 Challenge

June 23, 2011 Warner Student Life Center  
 Brookdale Community College, Lincroft, NJ  
[www.aia-nj.org/ECG](http://www.aia-nj.org/ECG)

# 2011 EAST COAST GREEN

	Technicalities	Manifestations	Renewal
<b>7:45 - 8:30</b>	Registration & Networking Breakfast		
<b>8:30 - 9:30</b>	Keynote Presentation: Robert Martin, DEP Commissioner, Invited		
<b>9:35 - 10:35</b>	Passive House: Comfort Through Efficiency Christine Liaukus, RA, CPHC 0623T01 1 HSW /SD & 1 GBCI	LEED for Homes project of the Year—Postgreen's 100K House Nic Darling & Jon Jensen 0623M01 1 HSW /SD & 1 GBCI	Applying Regenerative Strategy to Land Use & Environmental Issues Michael Fleischacker 0623R01 1 HSW /SD & 1 GBCI
<b>10:40 - 11:40</b>	Using BIM at the Schematic Phase For Reaching 2030 Betsy del Monte, FAIA, LEED BD+C 0623T02 1 HSW /SD & 1 GBCI	Net Zero Energy Homes George V. Keithan, Jr. 0623M02 HSW /SD & 1 GBCI	Architecture 2030 Challenge: 3 Case Studies T. David Bell, AIA, NCARB, LEED AP 0623R02 1 HSW /SD & 1 GBCI
<b>11:10 - 12:55</b>	Networking Lunch		
<b>1:00 - 2:00</b>	Carbon Neutral: You Got Insurance for That? J. Wylie Donald 0623T03 1 HSW /SD & 1 GBCI	Does a Building Need Outside Recognition to be Green? Glen Hughes 0623M03 1 HSW /SD & 1 GBCI	Holmes-Rulli Residence Tour Manchester, NJ Jason Kliwinski, AIA, LEED AP  0623R03 1 HSW /SD & 1 GBCI
<b>2:05 - 3:05</b>	2011 Building Industry Tax Incentives Brian Lovett, CPA, JD 0623T04 1 HSW /SD & 1 GBCI	High Performance Buildings in a Publicly Bid Environment Tony Alfieri, AIA, LEED AP+BD&C 0623M04 1 HSW /SD & 1 GBCI	
<b>3:10 - 3:55</b>	Afternoon Break		
<b>4:00 - 5:00</b>	Turning the 2030 Commitment Upside Down: Using Metrics to Guide Design Jim Newman & Betsy del Monte 0623T05 1 HSW /SD & 1 GBCI	The Living Textbook School- Neptune Middletown Community Elementary School Jeanne K. Perantoni, AIA, LEED AP 0623M05 1 HSW /SD & 1 GBCI	Montalvo Residence Tour Neptune, NJ Rey Montalvo  0623R04 1 HSW /SD & 1 GBCI
<b>5:00 - 6:00</b>	AIA-NJ COTE TOP 10 Awards Reception		



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# 2011 EAST COAST GREEN

## Thursday June 23

### **0623K01** Keynote Presentation: TBA

1.0 HSW/SD and 1.0 GBCI

To be submitted.

0623M02

SPEAKER: TBA

**Thursday, 8:30 am – 9:30 am**

### **0623T01** Passive House: Comfort through Efficiency

1.0 HSW/SD and 1.0 GBCI

This will be an introductory discussion of Passive House including covering the passive house concept; the performance criteria, the history of PH (based on super-insulated movement here in the US); example details and designs; the energy modeling that goes into a PH; various building type examples and a general discussion of costs.

SPEAKER: Christine Liaukus, RA, CPHC

**Friday 9:35 am – 10:35 am**

### **0623M01** LEED for Homes Project of the Year – Postgreen's 100K House

1.0 HSW/SD and 1.0 GBCI

Using our experience with the 100k House and subsequent Postgreen Homes projects, we will look toward the development of a new approach to spec housing. The goal of this approach is to provide energy efficiency, high-end design, healthy indoor environments and choice to a demographic that usually isn't offered anything of the kind. Through this discussion, we will touch on the value of the LEED for Homes Provider/Developer relationship and the importance of an integrated design process. We will look at how the best of LEED and Passive House standards can be adapted to real world Philadelphia.

SPEAKER: Nic Darling and Jon Jensen

**Thursday 9:35 am – 10:35 am**



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## **0623R01 Applying Regenerative Strategy to Land Use and Environmental Issues**

1.0 HSW/SD and 1.0 GBCI

Regenerative strategy involves a comprehensive understanding of the place, its stakeholders and green sciences and technologies. These three “fabrics” are woven together with living systems to develop regenerative and sustainable solutions to world imperatives.

Bringing together natural systems, built systems and non-tangible systems inspires designs that elevate quality of life while the systems grow and evolve on their own in a healthy way.

This session will walk you through this strategy and its process as realized in several regional projects.

SPEAKER: Michael Fleischaker

**Thursday 9:35 am – 10:35 am**

## **0623T02 Using BIM at the Schematic Phase for Reaching 2030**

1.0 HSW/SD and 1.0 GBCI

Using examples and case studies, this session will demonstrate the level of information which can be gathered at the schematic phase to guide the design to meet the goals of 2030. Issues addressed will be building orientation, site placement, use of shading devices and massing buildings to shade each other. Both energy impact and cost impact of the various strategies will be demonstrated, showing how different BIM systems can be used to compile data with only schematic information. Addressing life-cycle cost at the schematic phase will also be discussed.

SPEAKER: Betsy del Monte, FAIA, LEED BD+C

**Thursday 10:40 am – 11:40 am**

## **0623M02 Net Zero Energy Homes**

1.0 HSW/SD and 1.0 GBCI

This session covers the concepts, processes and systems involved with building a net or near zero energy home (NZEH). Participants will be shown options of different systems that can be used in residential projects and will be taken through the entire building process.

SPEAKER: George V. Keithan, Jr.

**Thursday 10:40 am – 11:40 am**

## **0623R02 Architecture 2030 Challenge: 3 Case Studies**

1.0 HSW/SD and 1.0 GBCI

The session will present an overview of the Architecture 2030 Challenge and cost effective investments in energy efficiency property owners and real estate professionals on the East Coast can take in the next few years to move towards the seemingly daunting goal of net zero energy. David Bell will present a brief overview of the national goals of the 2030 Architecture Challenge ([www.architecture2030.org](http://www.architecture2030.org)) and the 10 part AIA | DC training program. Perspective of an architect, property owner and participant in GSA's Climate Leaders Program will be discussed including using Energy Star Portfolio Manager and GHG Emission Calculations. Three case studies will be presented.

SPEAKER: David Bell, AIA, NCARB, LEED AP

**Friday 10:40 am – 11:40 am**



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### **0623T03 Carbon Neutral: You Got Insurance for That?**

1.0 HSW/SD and 1.0 GBCI

The LEED Consultant wanted to make sure its insurance program provided the protection expected and retained counsel. You could have knocked it over with a feather when counsel advised that the carrier would assert that the pollution exclusion in the E&O policy would not provide coverage for any asserted claims about inadequate carbon neutrality advice. Green building is new and different; architects and engineers need to be sure their insurance policies are keeping up. Following a primer on the basics, the program will look at different aspects of insuring a green building project, including green roofs, certification, tax credits and beyond.

SPEAKERS: J. Wylie Donald

**Thursday 1:00 pm – 2:00 pm**

### **0623M03 Does a Building Need Outside Recognition to be Green?**

1.0 HSW/SD and 1.0 GBCI

Glenn Hughes will discuss methods of research used to achieve design goals, focusing on shading and lighting control systems. He will present the relationship of measurement and calibration to the optimization of the building's performance. Hughes will illustrate how research was used to develop performance specifications and create feedback loops where post-occupancy data is used to optimize system performance and inform future energy efficient design.

SPEAKER: Glenn Hughes

**Thursday 1:00 pm – 2:00 pm**

### **0623R03 Holmes-Rulli Residence Tour**

1.0 HSW/SD and 1.0 GBCI

Tour of a Net Zero Electric Energy house which involves a number of synergistic things working together such as super-insulated building envelope using 2x6 framing and spray foam insulation, energy star rated windows, appliances, and CFL lighting, extensive daylighting and natural ventilation design, and a 9.5kW photovoltaic system. Transportation provided.

SPEAKER: Jason Kliwinski, AIA, LEEDap BD+C, O+M

**Thursday 1:00 pm – 3:05 pm**

### **0623T04 2011 Building Industry Tax Incentives for Sustainable Design**

1.0 HSW/SD and 1.0 GBCI

Don't let valuable tax savings pass you or your clients by. The objective of this session is to educate you regarding the details of current and proposed tax incentives available for green building. Understanding the tax implications of certain decisions can help you accurately estimate cost-savings to include in project budgeting and make green alternatives more affordable for you and your clients.

SPEAKER: Brian Lovett, CPA, JD

**Thursday 2:05 pm – 3:05 pm**

### **0623M04 High Performance Buildings in a Publicly Bid Environment**

1.0 HSW/SD and 1.0 GBCI

This session will discuss two projects that have pushed the boundaries of what's possible, discuss the problematics that are attendant with creating integrated building systems in a public-bid environment and then consider "lessons learned" for building on past successes.

SPEAKERS: Tony Alfieri, AIA, LEED BD+C

**Thursday 2:05 pm – 3:05 pm**



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## **0623T05** Turning the 2030 Commitment Upside Down: Using Metrics to Guide Design

1.0 HSW/SD and 1.0 GBCI

This session takes the idea of looking at energy and resource outcomes of a project, and turns the process on its head. The speaker will follow through defining environmental performance metrics at the start of a project, and then using them to re-imagine a design process that produces a project that actually performs. Metrics, including energy, water and land use, are defined upfront and used throughout the design process. Tools that help with implementation are shown and discussed. The outcome is a project that is focused on performance and ready to measure.

SPEAKER: Jim Newman, Betsy del Monte, FAIA, LEED BD+C

**Thursday 4:00 pm – 5:00 pm**

## **F0623M05** The Living Textbook School - Neptune Midtown Community Elementary School

1.0 HSW/SD and 1.0 GBCI

The Midtown Community Elementary is not just a stellar example of a community planning and development; it is also a mantelpiece for sustainable 'green' design. The sustainable features employed throughout the school not only create valuable cost and energy savings for the school district but create progressive learning spaces that enhance the learning and academic performance of the students who utilize them. "Green" features of the design include: Brownfield redevelopment, Bio-swales, water efficient landscaping and a roof top garden, 60% energy reduction over baseline anticipated for the building, Renewable (photovoltaic) energy produced on site, Construction waste management diverting 75% of waste from landfills, Recycled content materials, Use of local and regional materials sourced within 500 miles of site, and under floor air delivery design geared towards lessons in environmental responsibility.

SPEAKER: Jeanne K. Perantoni, AIA, LEED AP

**Thursday 4:00 pm – 5:00 pm**

## **0623R04** Montalvo Residence Tour

1.0 HSW/SD and 1.0 GBCI

Mr. Montalvo, President of Consolidated Energy Design, Inc. (CED) has designed an innovative and intricate energy conservation system that will reduce their utility costs by approximately eighty percent (80%) to ninety percent (90%). The energy conservation system employs high-efficiency heating and cooling equipment so that the home is using less energy overall and will be powered by solar photovoltaic panels, thereby minimizing the purchase of electric and gas from the local utility companies. Energy conservation was not the only goal in mind when rehabbing their home. In fact, the Montalvo's have also enlisted sustainable building materials to not only follow the LEED® Certification Standards, but to also promote a healthy living environment. Transportation provided.

SPEAKER: Rey Montalvo

**Thursday 3:10 pm – 5:00 pm**

## **AIA-NJ COTE Top Ten Awards Reception**

Come join us to celebrate as AIA-NJ announces its first ever high performance project awards. Projects selected as part of the AIA-NJ COTE Top Ten awards have demonstrated the highest levels of achievement toward meeting the Architecture 2030 goals and beyond and have been judged according to the AIA National COTE Top Ten criteria. NJ is a leader in renewable energy and our architects are leaders in the conversation on sustainability.

**Thursday 5:00 pm – 6:00 pm**



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## REGISTRATION INFORMATION

OPEN TO THE TRADE ONLY: NO ONE UNDER 18 ADMITTED.

2-Day Admission (includes all meals, general session, and seminars.)	Early Bird	Full Price
AIA/USGBC Member	\$95.00	\$135.00
Non-Member	\$145.00	\$185.00
Student	\$45.00	\$45.00

Pre-Conference Workshops Only (includes all meals, and seminars.)	Early Bird	Full Price
AIA/USGBC Member	\$35.00	\$55.00
Non-Member	\$60.00	\$80.00
Student	\$25.00	\$25.00

East Coast Green Admission Only (includes all meals, general session, and seminars.)	Early Bird	Full Price
AIA/USGBC Member	\$75.00	\$95.00
Non-Member	\$100.00	\$120.00
Student	\$35.00	\$35.00

COTE Top Ten Entry	AIA Member	Non-Member
Per project submission	\$75.00	\$100.00

### Registration Dates:

Early Bird through 6/9/2011

On-Site after 6/10/2011

Please call Registration at 609-393-5690, Mon - Fri, 9a.m. - 5p.m. EST for any questions regarding benefits, fees, cancellation, refunds which apply to your registration code. **Please note that discounts are not retroactive for previously registered attendees. Discount codes or coupons must be applied at the time of registration, no exceptions.**

### Meal Information:

All paid conference registrations receive continental breakfast, buffet lunch, and afternoon snack.

### Discounts:

Enter or mention your promotion or discount code when registering. Promotion and discounts codes cannot be combined. **Please note that discounts are not retroactive for previously registered attendees.**

### Payment:

Payment may be made on-line with a credit card or off-line with a credit card, or by a company or personal check. Please note that AIA-NJ will appear on your credit card statement. Payments may be deductible under the IRS code, but are not deductible as charitable contributions.

### Refunds:

If you cannot attend the seminar, you are asked to please contact AIA-NJ by telephone at 609-393-5690. You are permitted to cancel your registration for the seminar until June 9, 2011. Should you cancel your registration, you will be charged a \$25 administrative fee that will be subtracted from the refund amount. Refunds will not be given after the stipulated deadline and requests for refunds MUST be received in writing. You may send in your refund request by fax to AIA-NJ at 609-393-9891. Refunds for non-attendance will not be given; although registration substitutions are allowed.

### Substitutions:

Requests for substitutions will be permitted when both registrants are employed by the same organization and the payment has been made by company check or company credit card or wire transfer. Requests for substitutions or credit should be sent in writing via fax or email to the conference registrar. Substitution or credit will NOT be permitted after June 9, 2011.