

Green Building Institute E-Newsletter

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Home Energy Audits class with
Jim Conlon



Blower Door

Dear Lynn,

Hope you are enjoying your summer!

Congratulations to all of our Members and Volunteers for helping us advance the cause of creating a more sustainable future through green buildings.

In the coming weeks, our Board, Committee Members and Staff will commence our Business Member outreach and general Membership renewal campaigns. We thank you in advance for your continued support.

We especially need our Members to expand your roles and help shape the direction of The Green Building Institute. Please consider volunteering to work on program planning, membership appreciation & outreach and our fundraising efforts.

Again, thank you for helping make this cultural and economic shift toward a healthier planet.

Enjoy reading our July E-newsletter!

Sincerely,

Stanley J. Sersen, NCARB, LEED®AP, RS
Founder & President, Board of Directors
The Green Building Institute

Energy Efficient HVAC systems

Q&A with Moonlighting Energy's David Dalrymple

This month, Green Building Institute **Intern Zach Martinez** spoke with Member **David Dalrymple** who is the Director of Sales & Marketing for Moonlighting Energy.

Zach: What led to your involvement in the HVAC industry?



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Join

David: Our parent company has maintained an HVAC (Heating, Ventilation, Air Conditioning) division for ten years installing commercial HVAC systems. With the formation of Moonlighting (Energy), our alternative energy division, we have focused on energy efficient solutions for commercial and residential heating and air conditioning needs.

Zach: Why is the HVAC industry so important to a home/business owner? How can they benefit from incorporating this technology into their everyday life?

David: Moonlighting has specialized in the installation of the new mini-split, ductless air conditioning systems which also act as a heat pump in colder months. Up to 25% of cooling capacity can be lost in ductwork. These systems are perfect for supplementing inadequate existing air conditioning systems for renovations, restorations, additions or vacation homes. They require no ductwork and work on refrigerated lines. You cool only the areas you want and not the areas where you are not.

Zach: Aside from HVAC technologies, what products can homeowners utilize to promote cost-effectiveness and energy conservation?

David: The new tank-less water heaters also provide energy savings. Much smaller than a standard water heater, energy is not wasted holding a tank full of water at a usable temperature. Water is heated immediately as needed. Multiple tanks can be interconnected for commercial use. They are perfect for vacation homes. Radiant Barriers and Foil Bubble Insulation save energy on heating and cooling your home or business. Energy Star rated, they reflect 97% of radiant heat entering your roof during summer months. They are clean, lightweight, and easy to install, requiring no protective clothing or masks. Tank-less water heaters, Radiant Barriers, and Foil Bubble Insulations are currently available with Federal Tax incentives. Switching to compact fluorescent bulbs, installing solar attic fans or daylight tubes and Energy Star rated appliances all help conserve energy.

Zach: What is the difference between natural ventilation and mechanical/forced ventilation? Which method has the biggest advantage?

David: For new construction, a natural ventilation design would be a preferred method of heating and

cooling your home. It may not be a viable or economical option for most of us, with older homes or businesses. Outside air quality may also be an issue in many areas today. Energy efficiency would be my goal in this situation, using HVAC systems which are most efficient using less energy. A combination of natural ventilation supported by an HVAC system to maintain a certain comfort level would be an ideal situation for me.

Zach: How can a potential customer obtain additional information about HVAC technologies?

David: Certainly, I would suggest visiting our website at www.moonlightingenergy.com. There is a long list of benefits pertaining to ductless air conditioning systems over central air conditioning systems or window units. You can go online to look at a variety of ductless air conditioning systems. Be certain you find a certified installer, as this is a new technology. Before looking at alternative forms of producing energy, make sure you have made your home or business as energy efficient as possible.

More Resources:

[Energy Star - Heat & Cool Efficiently](#)

Thanks David!

Upcoming Classes & Events

Green Building Institute classes in **CAPS** .

Saturday, June 30, 2007

10:00 a.m. - 4:00 p.m.

[Going Green Expo](#)

Local businesses, non-profits and agencies will show you eco-friendly products and services.

Visit The Green Building Institute's booth!

Rockville Library

21 Maryland Avenue

Rockville, MD

Monday, July 9, 2007

6:00 p.m. - 8:00 p.m.

Green Happy Hour

[Chesapeake Sustainable Business Alliance](#)

Dogwood Deli
911 West 36th Street
Baltimore, MD
RSVP: 410-342-1482 or email:
info@csballiance.org

Saturday, July 14, 2007

1:00 p.m.

[Green Cup 2007](#)

Green Polo Match benefiting American Council On
Renewable Energy (ACORE)
Poolesville, MD

Wednesday, July 18 - Friday, July 20, 2007
Implementing the 2030 Challenge

[DesignDC](#) presents:

- Elizabeth Floyd, "Beyond Kumbaya: Sustainable Design in Community Building"
- Kara Strong and Sandra Leibowitz Earley, "Greening Your Client: Developing Green Building Goals for Every Project".
- Sandra Leibowitz Earley with Timmons Group's Chris Earley: "Integrating Innovative Stormwater Management into Green Building Design and the LEED Rating System".

Ronald Reagan Building
1300 Pennsylvania Avenue NW
Washington, D.C.

Sunday, July 22, 2007

1:00 p.m. - 5:00 p.m.

Clean Energy Open House and Native Garden Tour
[Chesapeake Climate Action Network \(CCAN\)](#)
Come see solar panels, view electric, biodiesel, and hybrid cars firsthand and eat solar-baked cookies. Learn how to landscape your yard with native plants and buy wind power certificates and energy-saving light bulbs. Test drive a tofu-powered lawn mower!

[RSVP/ Registration](#)

7125 Willow Ave
Takoma Park, MD

Tuesday, July 24, 2007

7:00 p.m. - 9:00 p.m.

[DON'T TREAT YOUR SOIL LIKE DIRT](#)

All about composting for your and your garden's

health:

- Why should I compost?
- How do I make a compost bin?
- How to make your own backyard compost and use it to feed your garden soil.
- How to brew your own horticultural compost tea. Prevent disease and pests on both outdoor and indoor plants.
- What goes and doesn't go into the compost bin?
- How to build and utilize raised bed gardens. It's not too late to grow your own summer and fall vegetables!

\$15 - Green Building Institute Member

\$19 - Non-Member (before July 11, 2007)

\$63 - Individual membership & class

Students & Teachers

\$8 - Student Member (High School or Undergrad)

\$31 - Student Membership & class (package)

[More information & registration](#)

The Green Building Institute

7761 Waterloo Rd.

Jessup, MD

Wednesday, July 27, 2007

7:45 a.m. to Noon

[High Performance Hospitals & Medical Research Facilities](#)

George Washington University Medical Center

2300 Eye Street NW

Washington, D.C.

Saturday, July 28, 2007

11:00 a.m. - 1:00 p.m.

Biodiesel Vehicle Exhibit

[Turbo Direct Injection Club](#) & [Biodiesel](#)

@ The Enviro-Center

7761 Waterloo Road (Rte. 175)

Jessup, MD 20794

Contact: Brett Rhodes

brett.rhodes@worldheritagecollection.com

What is biodiesel?

Biodiesel is a clean burning fuel produced from domestic, renewable resources. Biodiesel contains no petroleum, but can be blended at any level with petroleum diesel to create a biodiesel blend. It can be used in diesel engines with no major

modifications. Biodiesel is simple to use, biodegradable, nontoxic, and essentially free of sulfur and aromatics.

*Sidenote on biodiesel: **Green Building Institute Members:** Interested in purchasing biodiesel? Please send an email with subject header: "Biodiesel" and your your contact info to info@greenbuildinginstitute.org*

Thursday, August 9, 2007

8:30 am - 5:00 pm

[LEED® for New Construction and Major Renovations Workshop](#)

[USGBC - Baltimore Regional Chapter](#)

Loyola College Graduate Center

Timonium Campus

Timonium, MD

Saturday, September 8, 2007

8:30 a.m. - 4:15 p.m.

[HOW TO BE GREEN](#)

Introductory seminars on:

- Efficient and healthy buildings
- Solar hot water for your home
- Rainwater collection for garden use
- Solar electric for your home

\$35 - Green Building Institute Member

\$65 - Non-Member (before Aug 25, 2007)

\$75 - Individual membership & class

[More information & registration](#)

Green Building Institute

7761 Waterloo Rd.

Jessup, Maryland

Friday, Sept. 14 - Saturday, Sept. 15, 2007

[Renewable Energy Symposium & Expo](#)

See products, systems, materials, and technology related to renewable energy applications.

Frostburg State University

101 Braddock Road

Frostburg, Maryland

Monday - Thursday, September 24-27, 2007

[Solar Power 2007](#)

Long Beach, CA

Saturday - Sunday, October 6-7, 2007

[D.C. Green Festival](#)

Washington D.C. Convention Center
801 Mount Vernon Place, NW
Washington, D.C.

Friday, October 12 - Sat., October 20, 2007
[2007 Solar Decathlon](#)

Check out University of Maryland's entry [Leaf House](#).

National Mall
Washington, D.C.

Saturday, October 20, 2007

8:30 a.m. - 5:00 p.m.

[INTRO TO GREEN HOME RENOVATIONS](#)

Topics Covered:

- What are the differences between Green vs. conventional renovations?
- What is Integrated Design and how can I use it in my renovation?
- How do I approach doing a green renovation?
- How will an energy audit improve my design?
- How do I incorporate passive solar?
- What kind of materials should I use?
- What are some of the challenges in green renovations?

\$99- Green Building Institute Member - General participant

\$130 - Non-Member - General participant

\$300 - Case Study submission & participant

[More information & registration](#)

Green Building Institute
7761 Waterloo Rd.
Jessup, Maryland 20794

Wednesday, October 24, 2007

7:00 p.m. - 9:00 p.m.

[INTRO TO PASSIVE SOLAR DESIGN](#)

What topics will be covered in the class?

- Determining an appropriate site location based on climate/environmental factors
- Choosing house orientation
- Determining window placement and style
- Methods of insulating the home to naturally regulate heat/cooling
- Making use of overhangs and shade & much more

\$29 - Green Building Institute Member

\$41- Non-Member (before Sept 14, 2007)

\$75 - Individual Membership & class

[More information & registration](#)

Green Building Institute
7761 Waterloo Rd.
Jessup, Maryland

Saturday, December 1, 2007

8:45 a.m. - Noon

[GO GREEN, \\$AVE GREEN](#)

Learn:

- Steps to reduce energy costs
- Conservation methods
- How to use natural resources on your site
- Ways to improve indoor air quality
- How to take action in your own homes and lives
- About community resources and contacts
- How to decrease the environmental burden on the local environment

Howard County (Maryland) residents who earn less than \$50K for families and \$30K for singles are welcome to register.

[More information & free registration](#)

The Green Building Institute
7761 Waterloo Rd.
Jessup, MD

December 10-13, 2007

[Ecobuild America](#)

Washington Convention Center
Washington, D.C.

April 30 - May 2, 2008

[6th Annual Greening Rooftops for Sustainable Communities Conference](#)

Baltimore Convention Center
Baltimore, MD

Green Building Institute

Green Classifieds
New Job Postings!

[Campus Landscape Architect at University of Maryland, College Park](#)

Job Description:

Responsibilities include planning, design, and project management for campus landscape projects less than \$1M, and collaborating with allied professionals on projects related to the physical development of the campus. [More info](#)

[Office Assistant - Chesapeake Wind and Solar](#)

Job Description: Primary duties will include answering phones, tracking and ordering office supplies, mailings, correspondence, documents and records organization, customer database updates, and meetings/events support, among others. [More info](#)

Sustainable Design & Resource Online Directory
AIA Chesapeake Bay Chapter (AIACBC)

The AIA Chesapeake Bay Chapter (AIACBC) introduces the Sustainable Design & Resource Online Directory.

What is its purpose?

This online guide, serving residents in the Chesapeake Bay region, will provide homeowners, architects, builders and developers with a place to find information regarding green building, including: products & systems, vendors, contractors and installers in the region.

Who's involved?

AIACBC is working with various groups including Maryland Department of Natural Resources, City of Annapolis, Chesapeake Bay Foundation, Chesapeake Bay Environmental Center, and The Green Building Institute.

Who funded it?

AIACBC was awarded a \$10,000.00 grant by The American Institute of Architects (AIA) in Washington, D.C. to assemble the Online Directory. The AIACBC 150 Committee has donated their time to plan and coordinate the online directory.

When will the website be launched?

Expected launch is November 2007.

What website should I bookmark or add to my favorites for November's launch?

www.aiacbcgreen.org

**Trying to make your home greener?
*And, have you planned your winter vacation?
Bid and buy now!***

Next item up for bid - on the website now!

[The EcoSense Home Conversion Pack](#)

The EcoSense Home Conversion Pack is a 90-day supply of 16 different cleaners, plus mixing bottles and the EcoSense DVD that will help you instantly convert your home to safer, naturally sourced EcoSense cleaners. EcoSense is better for you, your family, and the environment!

Bidding ends: 10:00 a.m. Tues. July 10, 2007

[More info & bid now](#)

[St. Thomas Vacation Raffle](#)

Enter to win airfare for two people & one week lodging at Bluebeard's Castle on St. Thomas in the U.S. Virgin Islands from January 5 - 12, 2008. *Countdown is on! 65 days left to purchase raffle tickets!*

Raffle Drawing: Saturday, Sept. 15, 2007

Purchase Tickets:

\$20 each (Check or Cash)

[\\$21 \(Credit card - Online only\)](#)

6 tickets for \$100 (Cash, Check or [Online](#))

All proceeds benefit The Green Building Institute. Only 500 tickets available. Need not be present to win.

[Buy tickets now!](#)

Featured Members
Founding Member

The logo for ASG, consisting of the letters 'ASG' in a bold, yellow, sans-serif font.

**Integrative Design
+ Development
Consultants**
www.asgidd.com

[ASG](#)® is a group of Architects and Construction consultants who specialize in building analysis, forensic investigations, and Green building and both Residential (Multi-family) and Commercial LEED® projects.

Corporate Platinum Member

The logo for Whole Foods Market, featuring the words 'WHOLE FOODS' in a large, green, serif font with a leaf-like flourish above the 'O' in 'WHOLE'. Below this, the word 'MARKET' is written in a smaller, green, sans-serif font inside a dark green horizontal bar.

[Whole Foods Market](#) is the world's leading natural and organic foods supermarket. The Whole Foods Market motto, "Whole Foods, Whole People, Whole Planet" captures the company's mission

to find success in customer satisfaction and wellness, employee excellence and happiness, enhanced shareholder value, community support and environmental improvement.

Business Members



The [Columbia Association](#) manages a 40 year-old planned community with some of our buildings

currently under renovation and others to be renovated in the coming years. We are interested in helping to preserve natural resources by learning more about green building practices and implementing these techniques in our renovations and other projects.

[Green Heat LLC](#) has been formed to add solar energy installation to many years experience of residential remodelling in Howard County.
Saved by the sun!



[Skarda and Associates](#) provide a comprehensive structural consulting service for the evaluation, alteration, design, and construction of all types of

structures. Quality control and cost effectiveness are of particular importance throughout the job.



At [Water Management, Inc.](#) (WMI), we are not only dedicated to saving our clients money, but we also operate with the mission to preserve the earth's resources and protect our natural environment. WMI is well established in the field of water efficiency and conservation and has developed a successful track record since its founding in 1980. WMI presently has offices in Alexandria, VA (Headquarters), Nashville, TN, and Southern California.

The Green Building Institute, a 501 (c) (3) non-profit organization, educates the public and building & design professionals about sustainable building practices and technologies.

Sincerely,

Hannah C. Wood
Executive Director
The Green Building Institute

email: info@greenbuildinginstitute.org
web: <http://www.greenbuildinginstitute.org>

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