

WNC Green Building Council News

Inside this issue:

<i>Stay Warm and Save</i>	2
<i>Dear Maggie</i>	3
<i>Case Study</i>	4
<i>Community News</i>	5
<i>WNCGBC News</i>	6
<i>Classifieds</i>	7
<i>WNCGBC Events</i>	8

Greening Black Mountain Grant Announcement



The WNCGBC has been awarded a grant from the State Energy Office to “Green Black Mountain”. We are working with the town to create and promote a model ‘greening’ process for towns and municipalities throughout North Carolina. The project will document the entire process in the Towns of Black Mountain and Woodfin. This includes video documenting step-by-step the phasing-in process of green building guidelines/incentives, awareness raising and training activities for those in the building community, as well as showing what was accomplished and lessons learned.

Visit our updated website. New Case Studies and information. WNCGBC Membership and Class Registration are now available online through Paypal at www.wncgbc.org !

Platinum Sponsors Corner

A2Z Plumbing

www.eatsleepplumb.com

828-236-3880

A2Zasheville@EatSleepPlumb.com



A2Z Plumbing & Gas Piping, Inc is working with contractors, homeowners, and business owners to promote more environmentally sustainable ways of operating. Incorporating green building practices into the plumbing trade will improve quality of air, water and living. Using low V.O.C. (Volatile Organic Compound) products and fueling company vehicles with BioDiesel are just a few of the ways in which A2Z is successfully reducing their environmental Impact.

Local News

City Adopts LEED Resolution



On Tuesday December 12, 2006, the Asheville City Council passed a resolution to ensure that all new municipal buildings will be built to LEED specifications. LEED (Leadership in Energy and Environmental Design) is a green building rating system that is the nationally accepted benchmark for the design, construction and operation of high performance energy efficient buildings.

The city of Asheville joins approximately 50 other municipalities in the Nation to pass such a resolution. With the newly formed Sustainable Advisory Committee, we hope to see many more Green Initiatives to come.



HealthyBuilt Homes Update

The number of homes certified as of 1/01/2007 is 38!

The number of homes in progress as of 1/01/2007 is 378!

For a list of all registered builders visit:

www.HealthyBuiltAsheville.org

Stay Warm and Save Energy This Winter by Rachel Della Valle

There are many things one can do to save energy ranging from inexpensive and quick to time consuming and expensive. Here is a short list of ways to save energy in the winter months.



One of the cheapest and most effective ways to reduce heating loss in your home is to seal leaky ductwork. Over 20% of the average home's heating and cooling bills go to duct leakage in attics or crawlspaces. Sealing your ducts with mastic (a paste-like substance available at most home improvement stores) can substantially decrease the amount of conditioned air being wasted. A homeowner can spend as little as \$10 and a few hours of time to accomplish this task.

Another cost-effective remedy to save energy is to switch out incandescent light bulbs to Compact Fluorescent Light bulbs (CFL's). If everyone in North Carolina replaced one light bulb with a CFL it would save 1.5 Million kWh's each day. These light bulbs provide high quality light output, use 25% of the energy, and last 6-10 times longer than standard incandescent bulbs. And, remember to always turn off your lights when leaving a room. Turning off one 60-watt incandescent bulb that would otherwise burn eight hours a day can save about \$15 per year!

Another technique to save energy is to add weather stripping around doors and windows. The more leaky cracks and holes due to windows, doors, and plumbing fixtures, the more you will pay for heating. For each unit of cold air that enters your home through a crack, another unit of hot (conditioned) air that you paid for will leave your home through another crack. (This situation is reversed in the summer.) Use of door thresholds, window caulking, and plastic window film can save up to 20% in energy with an investment as little as \$25.

By changing faucets and showerheads to low-flow a ten-minute shower can use less water than a full bath. A new 2.5 gallon per minute (gpm) low-flow showerhead, a ten minute shower will use ~25 gallons of water, saving you 5 gallons of water over at typical bath and save up to \$145 each year on energy.



One can heat their home with biodiesel, a renewable and clean burning source of energy. Biodiesel can replace the home heating oil (fuel oil) or kerosene in your home furnace or monitor heater without retrofit. An Asheville based worker owned company, Blue Ridge Biofuels, delivers locally made biodiesel to homeowners. For more information or to place an order: www.blueridgebiofuels.com or call 828.253.1034.

One technique that does have greater upfront costs is purchasing Energy Star certified appliances. An E-Star refrigerator uses 15% less energy, dishwashers use 25% less energy, and clothes washers use up to 50% less energy. In



addition to purchasing energy efficient appliances, it is helpful to use these machines at night or very early in the morning. The more people that use energy at off-peak power times, the better it is for the entire energy system and those that use it.

Lastly, properly insulate your roof/attic because heat rises. If there isn't enough insulation in the space above your home, your money is literally going through the roof. Most ceilings/attics should have at least an R38 rating or ten inches of insulation.

Some of this information was gathered from www.energystar.gov, but for more please visit www.wncgbc.org and look to our resources pages regarding energy efficiency.



Events Review....

Marketing Green Buildings 101 Class Summary by Valerie Blanchette

The Marketing Green Building Class taught by Isaac Savage of Home Energy Partners and Michael Figura of the Real Estate Center was not only a very effective class, but also brought up some big dilemmas in the world of defining what is Green Building exactly. I have always felt there is nothing Green about a 4000 square foot second home for two people. I would even go so far as to say that there is a strong feeling of deep hatred for this type of home among the diehard green building community. The point that is missing is that a 4000 square foot second home cannot really be "Green" in the true sense of the word, but it can be better built and more energy efficient. This is maybe a lesser of two-evils approach, however reality has shown us that people want to build 4 and 6000 square foot homes anyway, so we might as well encourage a healthier, better, more efficient built home.

Much of what is truly "Green" about a home is not always obvious to the house. Sure solar panels, wind power, and a small passive solar designed house are features about a house that are easy to see that it is "Green". There are other houses, such as modulars and well-designed, energy efficient, smaller homes that can be just as "Green" on the inside with the help of well-designed plans, tight duct-work, properly sized HVAC systems, and good indoor environmental control systems, such as an ERV with fresh air introduction.

What is important is not to "Greenwash" or say a home is "Green" when it is really just well-built (i.e. the 4000 square foot vacation home). We must be careful in describing to the public what is really a "Green" home and what is a healthy, well built, energy efficient home.

Dear Maggie,

I think I have leaky ductwork, what should I do?

Dear Leaky Duct,

Sealing your ductwork is an easy way to save energy and stop unhealthy contaminants from entering your indoor air. All you need is a bucket of mastic, a pair of gloves, a brush for applying the mastic and probably a work light (depending on where your ducts are located). Mastic is a thick paste that seals better and lasts longer than duct tapes and is available at most home improvement stores.



If your duct work is exposed, many of the leaks will be fairly obvious. Most air leaks occur at duct joints and connections to the vents, registers, air handler and at branches in the duct system. Dirt around registers and duct connections is a sign of a leaky connection, but when in doubt, seal it up.



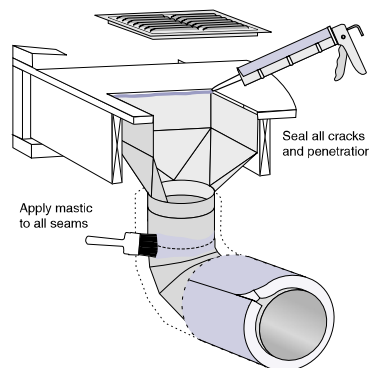
If the majority of your ducts are hidden in the walls or if you are unsure where your leaks are located consider having a professional perform a duct blaster test. This procedure will pressurize your duct system and can pin point if

you do have leaks and exactly where your leaks are located. Many of these companies will also offer duct sealing services. When assessing your system, make sure that your duct system is worth it, if there is significant dirt build up, or a moisture problem, you may need to replace your duct system completely and will need to contact an HVAC contractor.

If you choose to seal your ducts yourself, you can make significant improvements to the system by sealing the most important areas first. Start at the air handler and work your way to each individual register.

Make sure that there are no ducts that are disconnected. You would be amazed how many homes have ducts just lying in the crawlspace that are no longer even connected to the register. When assessing your system also look to identify any ducts that have major bends or kinks in them, this could slow down the air flow significantly and cause comfort problems. The ducts may need a different connection or to be better supported.

Seal all of the seams on the air handler. The air handler cabinet can leak a lot of air and is rarely sealed. If you are concerned about being able to access the air handler once the cabinet is



sealed, you can use foil tape on the cabinet door and just leave a roll next to the unit so that if someone comes to service the unit or change the filter they can tape it back up.

The supply and return plenums are the boxes that connect the ducts to the air handler. These should be very tight, as there is a lot of pressure so close to the fan. Seal all of the joints along the boxes with mastic.

The supply trunk is the long duct that carries the heated or cooled air to the house. The return trunk pulls the air from the house and returns it to the unit so that it can be heated or cooled again. Seal all seams in the trunk lines as well as all joints where the ducts branch off to go to each room.

Many homes use the floor itself (or other part of the house) as the trunk line, it is referred to as a panned duct. Typically a metal pan is attached to the floor joists to create the duct. These are typically very leaky. You will need to apply mastic where the joist meets the sub floor, where the joist meets the metal, and then where any ducts are connected to the metal pan. Connections at the "boots and elbows" occur where the ducts bend to connect to the floor or sealing. Seal all of these joints. Seal any other connection between sections of the duct work. It is important, if working with flexible duct, that you roll back the outer insulation cover and spread mastic on the inner liner, make sure it is strapped tight, and then apply mastic on the outer liner as well.

Insulate your ductwork. Insulation is available in rolls and can be installed on round or rectangular ducts. It should be foil or vinyl faced on the exterior to prevent condensation. If you have a complicated system, consider hiring a professional to insulate your ductwork for you.

Resources:

www.southface.org/web/resources&services/publications/large_pubs/Home-Energy-Projects.pdf

www.conservationcenter.org/assets/docs/Skinny-DuctSealingLAG_000.pdf

Sincerely,



Maggie Leslie

Case Study



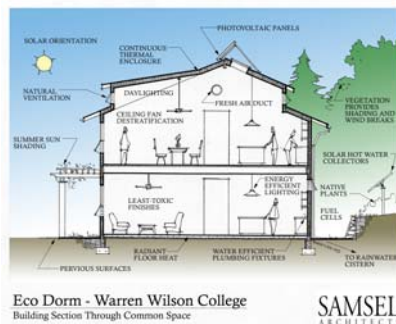
Warren Wilson College's (WWC) EcoDorm serves as the newest residence hall housing 36 students. Some of the most notable features of the building are its tight envelope, use of sustainable materials, composting toilets, and overall design. The soil and erosion control plan was designed by Equinox

Environmental while the civil engineering was done by LandDesign. Duncan McPherson, LEED AP, and Bud Hart, Architect, both of Samsel Architects, designed the building. Blue Ridge Energy Systems were the general contractors and Thermacraft installed the solar energy systems and radiant floor. Cindy Meehan-Patton of Shelter Ecology provided green product consultation. WWC hopes to achieve the LEED Existing Buildings Platinum Certification for the EcoDorm.

Even though Blue Ridge Energy Systems contracted this project, the students were involved throughout the planning and building process. According to the EcoDorm Manual, Warren Wilson Work Crews harvested trees, milled lumber, installed a telephone system, crafted cabinets and other woodwork, painted inside and out, built stone walls and walks, and planted trees.

"In the early years (early 90's) of our green building, we first started with lights, then windows. In 2001 we began planning for the EcoDorm. It was our first LEED-designed building." - Larry Modlin, Vice President and Chief Financial Officer of WWC

"Economic factors do influence our decisions. What we recognize is this: supporting sustainable products and vendors will increase demand: supply will follow, and prices will drop. What is now sustainable and marginally more expensive will become the industry standard." - Paul Braese, WWC Director of Facilities Management & Technical Services



Type of Construction: New
Date of Completion: 2003
Building Size: 9,000 sq ft
Major Funding: WWC
Certification: LEED-EB
Registered

Energy

True south orientation (within 10°) for passive solar heating & maximum benefit of shading of windows
Structural Insulated Panels (SIPs) *Insulspan* (R24 walls, R38 roof @ 75°)
Steel reflective roof, *McElroy Metal* (25% avg. recycled content)
Doors & windows, *Kolbe and Kolbe, Ultra Series*, Low-E, argon filled, *Energy Star* rated (U=.34, R=2.94)
Blower door test- 1.2 air changes/hour @ 50 pascals
Boilers, *Munchkins High Efficiency* (92% efficiency) for back up to domestic hot water & radiant floor heating
Solar hot water, *AET*, (6) 4x10 ft. collectors, *Heliodyne*
Heat Recovery Ventilators, *Venmar, 1.8 HE*
De-stratification fan, *Fantech*
Highly-efficient, in-floor radiant hot water heating system
Walls & roof, *EPS Styrofoam* insulation in SIPs (non-ozone depleting

Pentane expanding agent)
Slab insulation, *XPS Styrofoam*
Energy Star rated appliances (Washer, Dryer, Refrigerator), *Kenmore*
Exit signs, *LitePanel*, (¼ watt, 30 yr. maintenance free)
Hand dryers, *Xcel* (80% less energy than paper towels)
Fluorescent lighting throughout with motion & photo sensors
Photovoltaic system, *Siemens* panels with *Sunnyboy* converter, 2.4 kW system

Site & Water Conservation

The site plan design minimizes grading, waste, & overall site disturbance
The site was cleared under the direction of WWC Landscaping & Natural Resources crews
Landscaping with native, drought resistant, edible planting & minimal grass
Existing landscape used for wind breaks & summer shading
Water run-off is contained in a storm water wetlands retention pond on site
Rain water cistern, 10,000gal salvaged train tanker car
Showers, *Niagra Conservation* <2.0 gpm
Faucets, *Niagra Conservation* <1.5 gpm
Urinals, *American Standard* <.5 gallons/flush (Some are waterless)
Composting toilets, *Clivus Multrum, M3*
Greywater is plumbed separately from black water for future on-site treatment

Sustainable Materials

Hardiboard durable long lasting siding
Structural door headers, reclaimed from deconstructed WWC campus building
Interior framing from regional southern yellow pine (Georgia)
Plywood underlayment, non-tropical rainforest wood (pine)
Siding, trim, & cabinetry from WWC Forests
Door trim & wainscoting from WWC campus beetle killed pine & oak trees, reclaimed oak & fir from deconstructed WWC campus buildings
24% fly ash content sealed concrete flooring, acting as a heat sink in winter
Ceramic tile flooring & *Crossville EcoCycle* flooring (50% & 100% recycled content)
Drywall, *US Gypsum* (95% recycled content, FGD Flue Gas Desulfurization)
Rubber base board, *Johnsonite* (up to 80% recycled content)
Wardrobes & desks, *University Loft*, fast growth plantation trees
Bath partitions & countertops, *Comtec*, recycled content plastic

Indoor Air Quality & Health

HRV controlled & filtered fresh air supply to every bedroom & living space
Paint, *Sherwin Williams, Harmony*, low-toxic, low VOC
Wood sealer, *Safecoat, Polyureseal BP*, low-toxic, low VOC
A performance monitoring system, *Delta Systems*, monitors water consumption, gas consumption, electricity consumption and production, indoor and outdoor temperature and humidity of the EcoDorm.
Concrete sealer, *Safecoat, Watershield*, low-toxic, low VOC
Sound insulation, *Cocoon*, cellulose insulation
Ceiling fans, *Marley* – all bedrooms & living spaces, industrial grade high efficiency

Community News

Windmill Project Proposed for Ashe County

A 50 MW wind project has been proposed for the northwest corner of Ashe County in western NC. This is the first serious proposal for a utility scale project in western NC. If Northwest Wind Energies' plan for 50 megawatts of electric power gains approval, the 150 million kilowatt-hours of annual



electric power would be enough for sixteen thousand homes. The proposed height is causing controversy regarding commercial wind farms and the ridge top protection act. People are fearful of the windmills destroying the viewsheds and the potential noise, while others realized that it is a way for farmers to make more income, not to mention the potential draw for tourism. Several hundred citizens attended a public hearing that was held last Thursday by the NC Utilities Commission in the Ashe County Courthouse.

An additional Public hearing will be held on February 13th in Raleigh. Visit www.ncuc.net and search for Docket No. SP-167 to read the application and supporting documentation.

Anyone who wishes to comment on the application can file a written statement with the Utilities Commission that references Docket No. SP-167, Sub 1 and is addressed to Chief Clerk, North Carolina Utilities Commission, 4325 Mail Service Center, Raleigh, NC 27699-4325.

Oil fired Power Plant Proposed for Woodfin

Progress Energy has proposed a new oil fired power plant in Woodfin to supply peak demand. The county board of commissioners, to many peoples dismay, has agreed to lease the land for \$1 a year. Progress Energy still has a few hurdles to jump through including receiving their Air Quality Permit and a permit by the NC Utilities Commission. While the power plant has the potential to be the single largest polluter in the county even with the use of low sulfur diesel, because it is submitting that it will operate, at most, 20% of the time it is expected to gain its air quality permit (because CO2 isn't and EPA "pollutant").

The NC Utilities Commission, however, recently published a study indicating that at the State level, NCSEA encouraged NC state legislators to analyze the costs and benefits of a state Renewable Portfolio Standard, or RPS. An RPS policy requires a portion of our electricity to be generated by renewable energy resources and energy efficiency measures within a given time period. Key findings include:

If NC requires 5% of our electricity to come from renewable energy and energy efficiency sources over the next ten years, it will COST RATEPAYERS LESS than building new coal and nuclear power plants!

A state RPS policy can provide electricity that is JUST AS RELIABLE as coal, nuclear and natural gas power plants!

14% of NC's electric demand can be met through energy efficiency improvement that cost LESS THAN 5 cents per kilowatt-hour, which is cheaper than building new coal and nuclear power plants!

The NC Utilities Commission will hold a public hearing in Fall 2007.

Meanwhile an anonymous citizen is giving away Compact Fluorescent Light bulbs (CFLs) in Brevard to illuminate an alternative to the new proposed power plant.

This Saturday, February 3, starting at 7 AM, the Essence of Thyme Café (37 East Main Street, Brevard) will be giving away a free CFL light bulb to all – while supplies last. Scientific studies indicate it is far most cost effective to reduce energy use and free up existing capacity than it is to build new power plants . . . and avoiding new power plants is important in the fight against Global Warming.



Bulbs were provided by an anonymous donor, who hopes the giveaway raises awareness of this important issue and the readily available solution. More information on CFL bulbs and energy savings can be found at websites such as the Union of Concerned Scientists (www.ucsusa.org) and the Rocky Mountain Institute (www.rmi.org).

Energy Tax Credit Extension Approved

President Bush approved a bill on December 20th that will extend federal tax credits for renewable energy and energy efficiency projects. The wide-ranging Tax Relief and Health Care Act of 2006 extends the production tax credit through 2008 for electricity produced from wind power, geothermal power, biomass, landfill gas, small irrigation power, and trash combustion facilities. It provides a similar one-year tax credit extension for new properties that produce geothermal power or make use of solar energy; for homeowners that purchase solar water heating, solar photovoltaic, or fuel cell systems; for businesses that purchase fiber-optic lighting systems, solar energy systems, or fuel cell power plants; for new energy efficient homes; and for energy efficiency improvements to commercial buildings. The act extends the Clean Renewable Energy Bonds program through 2008, and increases the total annual amount of tax-credit bonds to \$1.2 billion. It extends special tax allowances for cellulosic ethanol facilities to include plants placed in service by 2012. It also extends the research and development tax credit, which encourages businesses to invest in new innovations.

WNC Green Building Council News (Cont'd)

WNCGBC Community Outreach

The WNCGBC has been working on a couple of collaborations with the city and a local school, the Evergreen Community Charter School (ECCS).

The first project is a Green Bus Stops Initiative that we have been collaborating with Bruce Black, Director of Transit for the City. The goal is to have some of our member green builders



and architects design and build green bus shelters and benches around the city. Bruce has been working on getting all of the permits in line

to start the process and make it as smooth as possible, as well as targeting the most used bus stops and finding the dimensions of bus stop areas. We are looking for at least one interested group to start this initiative off by meeting with us and Bruce Black to talk about what a common green bus stop would look like and what the probable maintenance of it would be. Upon completion of a bus stop, the builder would be able to put their name on it, with a plaque or something.

The second project is a collaboration with Terry Deal, the Environmental Education Coordinator and Marni Silverberg,



the 6th grade Math/Science Teacher at Evergreen Community Charter School.

They are excited about doing a contest with the 6th grade (~40 students total) where the students design a small renewable energy demonstration project that would be at their school to teach all of their students about renewable energy. They would probably design something solar, but those details aren't worked out yet. What we need is a donor of some materials and time to install this small demonstration. The student design could be tweaked if need be, for functionality and the installation part of the demonstration may include an educational part to show the 6th graders how it is installed/works.

New Board Members

The WNCGBC would like to welcome our new board members:

Frank Gomez

I have a well rounded background:

- Commercial Vessel Inspector in the Coast Guard
- Electrical Engineer
- Real Estate broker

I was a founding member of the Eco-Realtor certification committee at the Asheville Board of Realtors.



Hans Doellgast

I graduated from Warren Wilson College with a degree in Environmental studies focused on education. The first home I built is off the grid on land I own outside of Boone using logs and lumber I harvested from within 100 feet of the house. I now own a small green building company recently named Jade Mountain Builders. We are currently breaking ground on our 4th Healthy Built Home, with 11 more in the planning phases.

Jackson "Jack" Bebber

Jack is a native of western North Carolina and a UNC-Asheville alumnus. While he attended graduate school at Western Carolina University, Jack owned and operated a 20-acre organic farm. After teaching and coaching in public high schools in the Asheville area, Jack began a career in real estate. As a Realtor, he was a multi-million dollar producer, facilitating residential, commercial and land transactions. Since 2004, he has been in upper management with a leading local real estate company. Jack is a founding member of the Asheville-Buncombe United Way Highlands Circle. He is a director-elect of the Asheville Board of Realtors, and he serves on the Asheville-Buncombe Historic Resources Commission. Jack lives in south Asheville with his wife, Tami, and their three daughters, Judy, Molly and Sally.

Mary Love

I am an environmental scientist and educator. I was the former Co-Administer for WNCGBC and helped develop the HealthyBuilt Homes program for the greater Asheville area. Currently, I am a ECO-certified Realtor. I am constantly promoting green building because I believe that is the single most important and productive action we can take for our environment.

Michelle Spevak

I have been involved with non-profits in Western NC, but last year at the annual meeting, I really admired the fun, team atmosphere the leadership has built with the membership. The organization's vision, planning and achievements were clearly evident and vital to our area. I would like to contribute my energy and experience of recruiting volunteers, and community outreach and education. I have served with the community-based program of AmeriCorps for the past 7-years. I value the chance to be involved and to engage others in the community.

Continuing their service on the board are Lindsay Moody, Rob Moody, Marcus Renner, Myrick Rozier, Emily Coleman Wolf, Maggie Carnevale, Kevin Ward, Geoff Ferland, David Mosrie, Richard Soderquist. **We would also like to thank Boone Guyton and Jamie Metsch for their dedicated service as members of our Board, you will be missed!**

Green Building Classifieds and Announcements

Activists! A Chance to Set the Gold Standard for Energy Policy in NC

To many, it is no surprise that North Carolina has tremendous potential to benefit from in-state renewable energy resources and comprehensive energy efficiency measures. Now we have a study to prove it and the opportunity to set the gold standard in state leadership on clean energy policy.



The North Carolina Sustainable Energy Association (“NCSEA”)

urges you to review the study titled “*Analysis of a Renewable Portfolio Standard for the State of North Carolina*” at the North Carolina Utilities Commission webpage: <http://www.ncuc.commerce.state.nc.us/rps/rps.htm>

The state senate has made it clear that passage of a North Carolina Renewable Energy and Efficiency Standard is a top priority that needs your immediate support this legislative session. View the Act to Promote Renewable Energy and Efficiency at www.ncleg.net/gascripts/BillLookUp/BillLookUp.pl?Session=2007&BillID=s3

Additional legislation will be introduced soon and NCSEA is working with you and a broad coalition of interests to ensure that North Carolina will act on this unprecedented opportunity to encourage the economic and social benefits of renewable energy and energy efficiency.

You can help. Contact your state senator and representative and make it clear that you support a Renewable Energy and Efficiency Standard. Have questions? Contact NCSEA at 919-832-7601. We will update you on the most recent legislation and activity at the legislature via our website and through our partner organizations.

The Habitat for Humanity Home Store Needs Your Donations!



Asheville Area Habitat for Humanity has been building affordable housing in partnership with qualified families in Asheville and surrounding Buncombe County since 1983. In 2007 we will build 16 homes in what will be our busiest building year ever! The Habit Home Store, at 30 Meadow Road in the Biltmore Village area, provides a vital and consistent part of the funding that builds those houses. In 2006, the Home Store contributed to the funding of 5½ houses.

The Home Store accepts donations of building materials, furniture, housewares, appliances, cars, boats, trailers and antiques. It’s incredibly easy to donate – just call us at 254-6706 or visit us online at www.ashevillehabitat.org/home_store to schedule a pickup within Buncombe County. Unfortunately, there are some items that we are just unable to accept such as paint, liquids, chemicals, clothing, mattresses and damaged goods. Our complete donation guidelines are available on our website, www.ashevillehabitat.org/home_store/donations

The Habitat Home Store appreciates the work that you do as green builders and suppliers to minimize the impact on our landfills from leftover and excess building materials. Please think of the Habitat for Humanity Home Store when you have these materials.

If you have any questions regarding the donation process or would like to discuss our donation program for contractors and builders, please call Paul Reeves at 777-0743.

Volunteers Wanted

The WNC Green

Green Homes for Sale

Visit the Webpage for updated listings of Green Homes for Sale. Listings are free for business members!

www.wncgbc.org/links/forSale.php



Building Council is seeking volunteers to write articles for a bi-weekly Sunday column in the Real Estate Section of the Asheville Citizen Times. If you have knowledge or interest in a particular subject have you article published! For more information, or to contribute contact Maggie@ WNCGBC.org

Executive Director Wanted

Executive director needed for local environmental organization, p/t, needs to be personable, knowledgeable, enthusiastic, versatile, visionary, with writing, communication, fund raising, publicity, networking, supervising, computer and budgeting skills. Send resume to eco@eco-wnc.org or ECO, 121 3rd Ave., W., Hendersonville, 28792. Must reply by 1/24/07.

Help Wanted

Local Green Builder seeking carpenters and laborers for growing business. Contact Hans at: 828-216-3948

Attention: Energy Research Professionals

The Department of Research and Graduate Studies at Appalachian State University invites applications for a professional position in the area of energy research. This position is for an energy research engineer/ technician in a university program for 40 hours/week. For more information contact Laurel Elam at the ASU Energy Center: elamlm@appstate.edu

WNC Green Building Council Events

HealthyBuilt Homes Orientation

February 20th 1-5 at the NC Arboretum

Water Conservation and Harvesting

February 27 1-5 at the NC Arboretum

Designing a Green Home-2 Day Course as part of the Green Building 101 Course Series

March 15-16th 9:00am-5:00pm at the NC Arboretum

This two day course will familiarize attendees with the nuts and bolts of designing a green home. Over the two days, participants will go through the entire process of construction including siting a home to minimize environmental impact, making decisions about structural materials, HVAC equipment, landscaping, finish materials and much more while learning to take into account the financial implications of green building upgrades. The goal of the class is for participants to walk away with the knowledge of how to make educated decisions on benefits and trade-offs of different green building techniques and technologies. Participatory activities while working in groups will be a significant aspect to the class.

See our Green Calendar at www.wncgbc.org/events/calendar.php for a list of all our upcoming events or to Register. We now accept most major credit cards for online registration.

Consider Sponsoring the HealthyBuilt Homes Program!

Sponsoring HealthyBuilt Homes of Greater Asheville provides your business the opportunity to support green building while reaching a very targeted audience for your product and/or service. Your business will gain recognition as a supporter of a positive environmental program by HealthyBuilt Homes website visitors and program participants, including homeowners, builders and architects that are especially interested in healthy and sustainable building practices.



Chestnut \$5,000 (maximum of 5 sponsors)
 Product literature/brochures displayed at HBH training classes
 Large logo/link on the HBH homepage and sponsor page of the website
 Large logo on all HBH builder training material and home owner packets
 Large logo in HBH section of WNC Green Building Directory
 20% discount on WNC Green Building Directory ads
 Business membership to the WNC Green Building Council
 Recognized in the WNCGBC Newsletter

Maple \$2,500 (maximum of 10 sponsors)
 Logo/link on the HBH sponsor page of the website
 Logo on all HBH builder training material and home owner

packets
 Logo in HBH section of WNC Green Building Directory
 15% discount on WNC Green Building Directory ads
 Business membership to the WNC Green Building Council
 Recognized in the WNCGBC Newsletter

Oak \$1,000
 Business name/description/link on the HBH sponsor page of the website
 Business name/description on all HBH builder and home owner packets
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Southern Pine \$500
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Western North Carolina Green Building Council

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