



NCSEA green building pavilion at the Southern Spring Home & Garden Show in Charlotte February 27 - March 2, 2008

- site location & planning
- materials & resources
- energy & atmosphere
- water efficiency
- indoor environment

(full descriptions of these 5 areas on reverse)

- 1416 North Carolina Sustainable Energy Association (919) 832-7601
www.ncsustainableenergy.org • ncsea@mindspring.com
PO Box 6465 • Raleigh, NC 27628
NCSEA works to ensure a sustainable future by promoting renewable energy and energy efficiency in NC through education, public policy and economic development.
- 1417 CREE
4600 Silicon Drive • Durham, NC 27703
(919) 313-5300 • www.cree.com
A market-leading innovator and manufacturer of semiconductors that enhance the value of LED solid-state lighting, power and communications products by significantly increasing their energy performance.
- 1418 US-Green Building Council, Charlotte
Anne Jackson, IIDA, CDT, LEED(r) AP
1100 South Tryon St., Suite 300 • Charlotte, NC 28203
(704) 972.5623 • anne.jackson@perkinswill.com
http://chapters.usgbc.org/charlotte
To promote and advocate for sustainable buildings, sites, practices, products, lifestyles, through the education of professionals within the building and related industries, academia, public and private organizations and the greater Charlotte, NC community.
- 1419 Patton General Contracting, Inc.
9125-A Southern Pine Blvd. • Charlotte, NC 28273
(704) 529-2833 • www.pattoncontracting.com
PGC, Inc. provides construction services with an emphasis on alternate energy and conservation. Our products include krypton gas filled composite windows, composite siding, energy saving coatings, high efficiency sunrooms, solar photovoltaic and solar thermal.
- 1424 Beaver Brothers, Inc.
Mike Beaver • (704) 637-9595
www.beaverbrosinc.com • bbhvac@aol.com
Beavers Brothers, Inc. is a heating and air conditioning company whose specialty services include high efficiency

mechanical contracting, radiant floor heating, geothermal heat pumps, solar thermal and domestic hot water and heating systems. We have been involved in a number of residential and commercial projects throughout central NC since 1919.

- 1428 BRAE (Blue Ridge Atlantic Enterprises)
Shawn Hatley, LEED Accredited Professional
307 North Main St. • PO Box 643 • Oakboro, NC 28129
(800) 772-1958 • (704) 485-8031
sahatley@braewater.com • www.braewater.com
BRAE supplies Complete Rainwater Harvesting Systems enabling projects to protect water quality, increase water efficiency and achieve sustainability goals.
- 1424 Banister Homes, Inc.
Kathy Spence • (704) 634-4667
kathy@banisterhomes.com • www.banisterhomes.com
Banister Homes, Inc. is a custom builder specializing in new homes and dramatic renovations in historic Charlotte neighborhoods. Banister is a certified Green Builder in the NC Solar Center Healthy Built Homes program and builds both EnergyStar™ and certified NC Healthy-Built homes in the Charlotte area.
- 1421 Jim Gleeson, AIA/Design Integration
500 East Blvd. • Charlotte, NC 28203
(704) 344-1508 • jgleeson@design-integration.net
www.design-integration.net
A sustainable community is a living, thriving system in which human, natural and economic elements are inter-dependant.
- 1422-1423 Southern Energy Management
(919) 836-0330 • www.southern-energy.com
Southern Energy Management provides green building and renewable energy solutions for builders and homeowners. Services include Energy Star certification, performance testing, mechanical design, demand management systems, solar water heating and solar electricity generation systems.

- 1239 Ultimate Homes Windows and Siding
Tom Fitzpatrick • (704) 927-5779
www.ultimatehometoday.com
6006 Old Pineville Rd. Ste C • Charlotte, NC 28217
Ultimate Home is a customer focused installer of Energy Efficient and maintenance free exteriors committed to utilizing only the best products. We provide design consultant service, as well as financing options.
- 1425-1426 Carolina Foam Solutions
PO Box 4509 • Mooresville, NC 28117
(704) 401-8026 • (704) 663-5333
www.carolinafoamsolutions.com
Carolina Foam Solutions, Inc., assists homeowners, homebuyers, home builders and architects to design and build Healthier, Quieter more Energy Efficient™ homes and buildings. In addition, we provide Home Building consulting services including Green Building programs, HVAC load calculations, Energy Star Ratings, and Home Energy performance modeling.
- 1420 The JAG Companies
(704) 808-1113 • jared@thejagcompanies.com
JAG specializes in land development, site preparation, and construction of new and existing build projects in the residential and commercial sectors. Our expertise allows us to manage and build your project from the ground up. The goal is to do this with an emphasis on sustainable building with minimal environmental impact. Combined with the use of green products and building practices JAG will deliver your project in a timely manner and will be an asset to your community.
- 1039 Argand Energy Solutions
(866) 856-9819 • www.argandenergy.com
2725 Westinghouse Blvd., Ste 100 • Charlotte, NC 28273
The area's leading installer of solar electric (PV) systems, wind energy systems, and solar hot water systems. Our professionally trained designers and engineers will help you select the right renewable energy system for your home or business, and the best photovoltaic, wind energy, or hot water system for your budget.

more vendors listed on back

● 940 **Jan Enright & Associates / APRO**

● Landscape Design • 240 Glenwood Drive • Mooresville, NC 28115
Landscape Designer Jan Enright and Installer Scott Wallace work hand in hand to provide discerning clients environmentally sensitive outdoor spaces. Principles of Sustainable Landscaping and Xeriscaping are implemented in artistic yet functional gardens that always solve problems while delighting the senses.

● 1139 **Gutterglove of North Carolina**

● 2501 Blue Ridge Road, Ste 150 • Raleigh, NC 27607
● (866) 954-4462 • info@gg-nc.com

Gutterglove Guttergard is the premier gutter guard of choice among homeowners who harvest rainwater for their watering needs. GutterGlove acts as the "first-stage" filter for keeping out leaves, pine needles, and shingle grit. The fresh rainwater then travels down to the secondary filters where it is diverted into huge storage tanks, where it can be used later for a variety of household, garden and automotive uses.

● 840 **Imladris Farm**

45 Littleton Pond Road • Fairview NC, 28730
828-628-9377 • www.Impladrisfarm.com

We are a small family owned farm focusing on sustainable agriculture. Our products are nostalgically produced using historically accurate methods to provide our customers with the enjoyment of a quality, homemade product, while adding the concepts of "buying local," "sustainable agriculture," and "husbandry" to their vocabulary.

● 1427 **Radiant Barrier Energy Savers**

● (704) 578-2008 • www.ncradiantbarrier.com
7812 Garnkirk Drive • Huntersville, NC 28078
Radiant Barrier Energy Savers installs Radiant Barrier to make homes and buildings energy efficient and drastically reducing use of fossil fuels saving our customers energy and money.

● 1429 **P.A.C.E., Inc.**

Process & Air Conditioning Equipment, Inc.
P.O. Box 560427 • 1221 Amble Drive (28206)
Charlotte, NC 28256-0427
Phone: (704) 597-8990 • Fax: (704) 597-8907
Email: mail@pace-incorporated.com
PACE is a manufacturers' representative for commercial and industrial HVAC products.

● 1140 **Harrington Construction**

● P.O. Box 49446 • Charlotte, NC 28277
● (704) 542-0068 • www.buildinghealthy.com
● With advancements in building technology and the belief that we should always strive to better ourselves and our products, Harrington Construction has taken the initiative to be a leader in sustainable/green/energy efficient construction, which has lead us to the concept of "High Performance" construction. We whole-heartedly believe, as a company, that we can build a better, healthier, safer, and more efficient product, not only for our customer, but for our environment.

● 1040 **Polysteel Unlimited**

PO Box 78575 • Charlotte, NC 28271 • (704) 578-8024
Since 1978, PolySteel forms have been used to provide our clients with a superior construction technology that delivers cost-effective, high-performance structures that are safe, quieter, more comfortable, energy efficient, structurally secure, and environmentally responsible than any building system available on the market today.

● 939 **Pippin Home Designs / Project: Live Green /**

● **PTI Designs**

● 21016 Catawba Avenue • Cornelius, NC 28031
● (704) 895-0000 • www.pippinhomedesigns.com

Pippin Home Designs, Inc. is an award-winning full-service residential design firm specializing in unique custom home design. Whether you want to go Green, create the equestrian estate of your dreams, enjoy every bit of your lake view, or simply have the most breath-taking house in the neighborhood, Pippin Home Designs can help you bring your vision into reality.

● 939 **Spivey Construction**

● P.O. Box 4268 • 133 River Park Road, Suite B102
● Mooresville, NC 28117 • 704-663-4189

Our focus is on energy conservation and indoor air quality as well as advocating the use of renewable sources for construction material. We continually strive to educate our customers on the benefits of eco-friendly building ... from simply recycling to more advanced geothermal heating and cooling.



5 areas of green building

In order to better understand green building, it can be divided into five categories to make it easier for industry professionals and homeowners and business owners to focus on.



site location & planning

Careful planning, even at the earliest stages, will allow one to incorporate as many green building technologies and applications as possible. Site location and the building orientation can significantly impact available energy efficiency options.



materials & resources

When deciding what materials to use in a building, there are several factors to take into consideration such as durability, recycled content, reusability, and embodied energy which is the amount of energy that into creating, packaging, transporting, recycling or disposing of selected material.



energy efficiency

Energy efficiency can be one the most of the beneficial techniques to increasing the comfort and quality of a home while reducing utility bills. Considerations should energy efficient heating and cooling systems, increased insulation, daylighting, fluorescent or LED lighting, programmable controls, and solar and other renewable energy technologies.



water efficiency

There are tow types of water usage in a building - indoor and outdoor water use. Water efficiency measures can be implemented in both areas and may include low-flow toilets, faucets, and showerheads or rain water harvesting.



indoor environmental quality

Poor indoor air quality can lead to and irritate asthma, allergies, eye irritations, headaches and respiratory problems. Mold and mildew issues, especially in the southeastern United States, are at the root of several of these problems. Some other considerations include moisture control, pest management, radon control, and carbon monoxide.

about NCSEA

The mission of the North Carolina Sustainable Energy Association (NCSEA) is to ensure a sustainable future for North Carolina by promoting renewable energy and energy efficiency through education, public policy, and economic development. To accomplish this, NCSEA works with government, business, communities, and partner organizations to provide opportunities for North Carolinians to learn about and implement sustainable energy solutions.



The Green Building Pavilion is an opportunity to explore green building concepts that can

be implemented into residential and office buildings. Providing a holistic approach, green building significantly reduces the environmental impact of a building while increasing the quality, comfort, and efficiency of the building. By learning about these possibilities, we hope you consider incorporating these solutions into your home and office.