

Environmental Partners

Together, working toward sustainable communities
...and celebrating 10 years during Earth Day



Join the Catawba College Center for the Environment
for our regional community Earth Day Celebration

April 21 & 22, 2006

Look Inside For...

Sustainability Showcase
and Conference to
Stimulate New
Approaches to the Way
We Live

Learn About
Sustainability and
Why It Is Significant
to You

Earth Day Festivities

- Activities for Everyone
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- Engaging speakers

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Becoming a Grandfather Heightens the Importance of Sustainability

By Dr. John E. Wear Jr.
Director, Catawba College Center for the Environment

Last fall I became a grandfather. Twins Jackson and William arrived in September and have been the center of attention in our family ever since.

Being a granddaddy gives you a whole new perspective on life. As a parent, you are concerned about your children's future, but when you begin thinking about your grandchildren, you realize that you have a responsibility to these youngsters that now spans many decades.

We frequently try to save money so we can leave our children and grandchildren an inheritance, but we don't often think about what kind of place we're leaving them. Are we thinking beyond their monetary needs? What will their quality of life be when they reach their teens and later, when they become parents and grandparents? What state will the earth be in when they are in their 50s and 60s and 70s?

Back in the early 1990s, I came to Catawba College in my hometown of Salisbury to help establish an environmental program. In the process I realized there were tremendous opportunities for the community, region and state and for the college if we could involve those around us - students and faculty as well as community members - in initiatives that promote sustainability. In doing this, the people who make up the Catawba College Center for the Environment have been involved in a wide array of community-strengthening activities as you can see from the timeline in the center of this insert.

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What is sustainability?

Sustainable development is development that "meets the needs of the present without compromising the ability of future generations to meet their own needs," according to the World Commission on Environment and Development in its 1987 book, "Our Common Future."

Those future generations are my grandchildren and yours. As we examine the issues -- like global climate change; the diminishing availability of resources; and the quality of our water and air, especially as it relates to human health -- we realize that we need to make substantive changes if our children and grandchildren are going to experience the quality of life that we enjoy.

Experts who have studied these challenges for years offer predictions that should give us pause. They suggest, for example, that we may be approaching the peak of oil production sooner than expected because of the greater demand from

countries like China and India. They also state that residents in parts of Mecklenburg will likely face a higher than average incidence of cancer because of air pollution.

When we consider predictions like these, one thing becomes readily apparent. Sustainability is not really an option. It is a necessity.

What are corporations doing?

Many corporations are committed to organizational transformation and the integration of more sustainable practices into their enterprises. They are adopting a triple bottom line that measures success not only in economic terms but also in environmental and social terms.

Companies like Nike, Starbucks and Herman Miller have adopted sustainable principles. Interface, an Atlanta-based company that is the world's largest producer of commercial floor covering, has become a model of sustainable practices. The cities of Seattle and Whistler, British Columbia, and other communities around the globe, especially in Sweden, have also made great strides in working toward sustainability.



Both businesses and consumers can take part in making the places we live more sustainable. By manufacturing or purchasing furnishings made of recycled or biodegradable materials and non-toxic dyes, we can minimize our use of resources and lower our footprint on the environment. The frame of this Herman Miller Aeron chair in a Catawba Center for the Environment office is made of 36 recycled 2-liter soda bottles.

What will you do?

It is going to take all of us together to create sustainable solutions to the environmental challenges we face. The choices we make in our personal lives, in our businesses and in our communities can have an incredible impact on the future of this region.

Author Duane Elgin stresses the transformative nature of everyday acts. "The character of a whole society is the cumulative result of the countless small actions day in and day out of millions of persons," he says. "Small changes that may seem unimportant in isolation are of transformative significance when adopted by an entire society."

If you want to help in your community's transformation to sustainability but need guidance, contact the Catawba College Center for the Environment (704.637.4727 or centerforenv@catawba.edu) and we will connect you with others who are planning today for a sustainable future.



John Wear's grandsons, Jackson and William, live in the Fulton Heights neighborhood of Salisbury, which is a good example of the traditional, walkable community that New Urbanism promotes. Based on concepts that flowered in traditional neighborhoods 100 years ago, these mixed-use communities are marked by a network of connected streets and side-walks. In addition, stores and schools are within walking distance.



Environmental Partners

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Please join the Catawba College Center for the Environment online or call 704-637-4727.

Become a partner in moving communities toward sustainability.

www.centerfortheenvironment.org

Together, working toward sustainable communities ...and celebrating Earth Day

Where Do We Go From Here?

EDITORS NOTE: There are many ways our communities, our businesses and our citizens can work toward greater sustainability. These are ideas gleaned from a variety of experts who have devoted their lives to this concept.

Plan Carefully for Growth

Some forward-thinking counties and municipalities in our region are planning for growth by adopting principles that promote compact, walkable communities. This lessens our dependence on the automobile, which causes much of the air pollution we face.

These are some of the advantages of this new urbanist thinking, which, in essence, promotes developing in more traditional ways:

- ✦ In mixed-use, walkable neighborhoods, we have more freedom of choice in getting from one place to another. We can walk or ride a bicycle instead of always going by car. (See photo on page two for an example.)
- ✦ If we walk more, we have more direct contact with our neighbors and therefore have a greater sense of community.
- ✦ Studies indicate that people will generally walk places if the distance to their destination is about ¼ mile, so creating mixed-use neighborhoods that include places to live, work and play will allow residents to walk to offices or shops or parks, which is good for our health.

Conserve Farms & Farmland

Much of our cultural identity is tied to the rural landscape so preserving working farms preserves an important element of our heritage.

These are some things that individuals can do to conserve farms and farmland:

- ✦ Support programs and elected officials that work to preserve farmland and working farms.
- ✦ Support local farmers' markets.
- ✦ For those who are interested in offering their families healthy, organic foods, work directly with farmers through food cooperatives and consumer supported agriculture (CSAs).
- ✦ Encourage more compact settlement patterns that will enable the preservation of productive farmland.



Robert Knox III agreed last year to place an easement on his property through Rowan County's Farmland Preservation Program, which will keep it available for active farming in perpetuity. He and John Wear talk about how critical farmland is to our economic health. Soaring transportation costs make trucking produce in from other states increasingly impractical.



The 189-acre Catawba College Ecological Preserve is flanked by two developments which have set aside portions of their property as natural areas. This effectively creates an extension of the preserve and offers amenities for the residents of the developments.

Conserve Natural Areas

We can conserve land through conservation easements. We can also design subdivisions that both provide for our expanding population and conserve natural resources at the same time.

A single tract of land can be developed in such a way that homes are placed closer together so that a single large tract of natural area (or farm or pasture) is available for the benefit of all the landholders in the neighborhood.

Conserve & Restore Our Tree Canopy

The tree canopy plays an important role in reducing the heating and cooling costs of homes, and the natural areas are important in intercepting and storing rainwater, filtering pollutants from the air and providing habitat for animals in a community. The greater the tree cover and the fewer the impervious surfaces (parking lots, streets, roofs) in a community, the more ecosystem services are produced.

Improve Our Water Quality

By designing our communities in ways that preserve natural areas, we can encourage the natural processes of purification before rainwater enters our streams and lakes. These practices will help improve our water quality:

Tree Canopy Saves Community Money

An ecosystem analysis provided by American Forests calculates that the tree cover in the Catawba Ecological Preserve provides a number of services: a reduction in stormwater runoff; an increase in air and water quality and carbon storage; and a reduction in energy use.

If this 189-acre area were developed, the city of Salisbury would need to construct a 1,739,651-cubic-foot storage basin to retain the stormwater runoff, based on a two-year, 24-hour rainfall of 3.75 inches. That would cost the city \$303,341 per year, based on payments over 20 years at 6 percent interest. The total stormwater savings would be \$3,479,301.

- ✦ Reduce impervious surfaces, like parking lots.
- ✦ Create natural buffers around streams.
- ✦ Increase natural areas around homes.
- ✦ Develop stormwater retention areas that can not only function as basins to hold water but also provide habitat for wildlife.
- ✦ Protect our watersheds for the health of the community and for the economic benefits the natural purification processes provide.

Our homes and businesses can contribute to the diversity of wildlife that is found in our urban areas by using plants that provide food, shelter and nesting areas for birds and other wildlife.

By capturing water off the roofs of buildings and planting native species, water used for landscapes can be kept to an absolute minimum. Only about ½ inch of water is required each week to water the native plants around the Center for the Environment building with a drip irrigation system, which minimizes evaporation.

Improve Our Air Quality

The air quality problems this region faces are caused, in large part, by the way we have developed. When we have to drive long distances to get from home to work to school to shopping areas, we become dependent on our automobiles. The more we have to be in our cars, the more pollution we create and the less exercise we get.

A study published in a 2004 issue of Public Health speaks directly to the relationship between land-use planning and our health. The report, called "Suburban Sprawl Affects your Health," revealed a correlation between unplanned growth and a number of ailments. It found rates of arthritis, asthma, headaches and other complaints increased with the amount of sprawl.

Here are some things we can do that will improve our air quality, which, in turn, will improve our health.

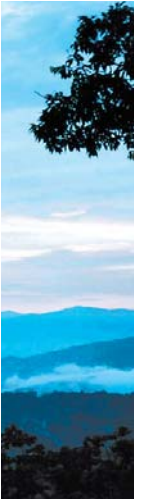
- ✦ Encourage development of walkable compact communities.
- ✦ Protect our tree canopy and surrounding ecosystems.
- ✦ Promote widespread use of mass transit.
- ✦ Consider hybrid vehicles and alternative fuel vehicles.

Build Green

The California Sustainable Building Task Force states that an initial upfront investment of up to \$100,000 to incorporate green building features into a \$5



Creating walkable communities contributes to the health of individuals and the towns where they live.



three





Catawba College Center for the Environment

...celebrating our 10th anniversary

1996-2006



The highlights below suggest the multi-faceted approach the Catawba College Center for the Environment has taken in addressing regional environmental challenges during its first decade. The Center's approach has been grounded in a commitment to lead by example and to bring diverse groups together in support of sustainable solutions, involving its students every step of the way.

Timeline:

1996

The Catawba College Center for the Environment is established with a mission to educate students and the public about environmental stewardship and sustainability and to involve the faculty, staff, students and the Center's partners in programs and activities that promote sustainable solutions to the environmental problems faced by the community, state and region.



The Center, under the leadership of founding director Dr. John Wear, works with the City of Salisbury to establish the Salisbury Greenway. The linear park provides not only a trail for bicyclists and pedestrians; it also preserves open space and provides a riparian buffer to reduce the sediment and filter the nutrients going into Grants Creek.

1997

The Center hosts the first of seven annual statewide Watershed Conferences to address challenges like the *pfisteria* outbreak, flooding and pollution. The initiative ultimately leads to the creation of the N.C. Watershed Coalition.

1998

The Center begins to expand its purview, lending assistance to regional and state initiatives over the next several years.

The Center helps to acquire additional land for the Catawba Ecological Preserve, increasing its area to 189 acres. Working with the LandTrust for Central North Carolina, it facilitates the college's placing a significant portion of the preserve under permanent conservation easement. Catawba becomes the first college in North Carolina, and one of the first in the nation, to preserve campus property in perpetuity.

four



1999

Center staff and students, with the help of the U.S. Fish & Wildlife Service and the Natural Resource Conservation Service, create a structure on the Catawba Ecological Preserve to impound 23 acres of water from the surrounding watershed. The project not only expands the waterfowl and shorebird habitat but also helps with water retention and the natural purification of runoff.

Ground is broken for the sustainable facility that houses the Catawba College Center for the Environment. Architect Karen Alexander notes that Catawba is leading by example: "It is showing how a small college can make a big statement about the importance of the sustainable use of the earth's resources." Bill Holman, then secretary of the N.C. Department of Environment and Natural Resources, calls it "the wave of the future in resource and energy efficiency."

The LandTrust for Central North Carolina partners with Catawba College to purchase and establish a 300-acre wildlife refuge seven miles north of the college. The property, which is protected by a conservation easement, serves multiple purposes: It preserves water quality and land; protects wildlife; and serves as an outdoor laboratory for educating budding conservationists.

Catawba becomes one of the first colleges in the state to offer certification for environmental educators. The program, initiated by the N.C. Office of Environmental Education, is a requirement for environmental educators in nature centers, state parks, aquariums and natural history museums in North Carolina.

2000

Catawba students are placed in charge of recycling construction waste on the model green structure to house the Center. The goal is to recycle 70 percent of the material, but they recycle 86 percent. The students find that, in many cases, it is cheaper for contractors to recycle the waste than to take it to the landfill.

The Center for the Environment is featured in a PBS documentary called "Environmental Partners: Designing a Sustainable Future." It is the first of two 30-minute TV documentaries focusing on the Center, its partnerships and its mission to teach others how to be careful stewards of the earth's resources.



2001

Classes are held for the first time in the Center for the Environment facility, which was designed to encourage the integration of its program with environmental efforts in the region. It used recycled and recyclable materials, environmentally friendly geo-exchange system to heat and cool the building and solar panels to provide a portion of its electricity.

The Center launches EcoConnections, its online magazine (www.ecoconnections.org) which features people and programs across the state and nation that promote sustainability and environmental stewardship.





The Center, with the guidance of landscape architect Kevin McCorkle, horticulturalist George Morris and Jeff Sowers of KKA Architecture, develops natural landscaping around the facility. Center staff and Catawba students implement the plan. Nearly 260 native species surround the sustainably designed building, providing wildlife habitat and a rich laboratory for studying plant diversity and techniques for water conservation.

2002

The Center facility becomes a popular location for conferences that focus on everything from environmental policy to environmentally friendly design.

2004

The Center launches the Clean Air Initiative to address air quality problems in Rowan County and the region. Banks, businesses and foundations offer financial support for the effort.

The Center initiates Clean Air Lecture Series, bringing experts to the campus to talk about issues related to air quality. Catawba students have the opportunity to talk with noted authorities on topics ranging from air pollution and health to the importance of land use planning.

Through the Clean Air Initiative the Center supports a multi-faceted approach to cleaning up the air, including efforts involving farmland preservation, sustainable development, energy conservation in municipal and college organizations, truck stop electrification and the retrofitting of school buses with catalytic converters.

The Center receives award for its contribution and dedication to improve the state's air quality from the N.C. Air Awareness Program in Charlotte and Mecklenburg County. Noting the efforts of staff, partners and volunteers, Center director receives state and regional recognition over the course of five years: 2005 Airkeeper Award from the Carolinas Clean Air Coalition; 2003 N.C. Conservationist of the Year; 2002 "Guardian of the Earth" by the Charlotte Observer; 2001 Green Builder of the Year by the Carolina Recycling Association.

The Center brings community leaders, municipal staff and American Forests officials together to explore the possibility of conducting a regional ecosystem analysis to help communities plan for development. Less than two years later, the idea comes to fruition.

2005

Catawba College environmental science students spearhead Campus Greening Initiative. Their proposals, many of which have been implemented, range from water and energy conservation to policies which ensure that all buildings constructed on campus will meet Leadership in Energy and Environmental Design (LEED) criteria.

The Center hosts international delegation that travels to Center to learn about environmental education and community participation in environmental efforts. Delegates are from Finland, Pakistan, Zanzibar, Uruguay and Eritrea.



The Center and Catawba's environmental science students are featured in the nationally broadcast PBS program, "Simple Living with Wanda Urbanska." Urbanska says she chose the Center because "it offers one of the premiere environmental education programs in the nation in a unique physical setting."

The Center hosts a group of Russians who come to discuss common environmental concerns with Dr. John Wear and selected students. The delegation's visit is part of Open World, a 10-day professional exchange that attempts to foster understanding and collaboration between Russia and the United States.

Students in the Campus Greening Seminar research green technology and products for Ramsey Burgin Smith Architects as the firm refines plans for renovation of and addition to Corriher-Linn-Black Library on Catawba campus.

2006

The Center orchestrates air quality conference - "Clean Air: Community Strategies for Action" - to offer a forum for participants to help their communities find reasonable solutions to air quality challenges. Current students and recent graduates engage in a facilitated discussion about air quality issues and what students can do on campus and in the community to help clean up the air.

The internationally syndicated science radio program "Earth & Sky" broadcasts part of an interview with director John Wear on 1,000 radio stations across the globe. The series has 10 million weekly listeners.

Center spearheads Salisbury's First Annual Earth Day/Sustainability Showcase. Partners for the event include the Downtown Salisbury Association, the entire Catawba campus, LandTrust for Central North Carolina, Charlotte Chapter of the U.S. Green Building Council, the "Simple Living" TV Network, Carolinas EcoCrescent, Environmental Defense, Land for Tomorrow, Southern Appalachian Biodiversity Project, N.C. Solar Center, Charlotte Chapter of the Sierra Club, plus many sustainable businesses. Earth Day will promote sustainability and environmental stewardship, educate the public and showcase sustainable options.

The Center begins planning Sustainability & Community Engagement Institute, designed to prepare regional communities for sustainable growth. It will offer targeted education for current and emerging leaders as well as for Catawba students. Those students selected for the Institute will graduate prepared to step into leadership roles in the communities where they will live.



five





Sustainability for daily living: What is it and how does it affect you?

So, what does living sustainably mean anyway, and what does it have to do with your life?

Basically, it means using the earth's resources in a way that meets your needs today but also will meet the needs of your children and grandchildren in the future. It means making choices which will ensure that your grandchildren will have healthy air to breathe and pure water to drink and natural land to enjoy.

It may be as personal as turning down the thermostat or as community-oriented as supporting elected officials who propose ways to develop neighborhoods that allow us to walk to shops and schools. It may be as simple as buying no-or-low VOC (volatile organic compounds) paints to spruce up the nursery or as complex as becoming involved in the way your community is planning for rapid growth.

One thing is for sure. What you do today will have far-reaching effects. You can enjoy the good life today - and your children can enjoy the good life tomorrow. But you have to make informed choices for that to happen.

Reduce, Reuse, Recycle

Wanda Urbanska, host and co-producer of PBS's "Simple Living" TV program, notes that people in the United States don't typically live in a sustainable fashion. "We are 5 percent of the world's population, but we're using 25 percent of the resources," she says. "We can't go on like this forever. We need to simplify our lives and reduce our footprint."

Adopting a Reduce-Reuse-Recycle philosophy can make a powerful difference. "It's the philosophy our grandparents largely followed," Urbanska says. "They said, 'use it up, wear it out or do without.'"

Jeanne Mercer-Ballard, coordinator of the Interior Design Program in Appalachian State University's Department of Technology, invites people to consider the fact that everything is connected. How we build our houses - from the resources we extract from the earth to construct the building to how we use those materials - impacts both our health and the health of our environment.

"When people hear about 'green' building, they think 'recycling,' but it goes beyond that," Mercer-Ballard says. "The most important part of the Reduce-Reuse-Recycle pyramid is reducing your impact." A smaller, well planned footprint of a building has less impact on the environment and, in turn, less impact on people.

Ask, 'Do I Need It?'

Urbanska counsels people to be thoughtful consumers. "Ask, 'Do I need it? Can I afford it? How was it made? How will I dispose of it? Can I borrow it?'"

Deciding to refurbish an old sofa rather than hauling it to the landfill is one way to live sustainably. Planning space for recycling bins within your home will also contribute to the reuse of raw materials.

Recycling includes both purchasing materials with recycled content and buying items that can be recycled or downcycled at the end of their lifespan. An example is the Herman Miller Aeron chair, which is made of 36 recycled two-liter soda bottles and also has a diagram on its bottom that shows how it can be

Where Do We Go From Here?

(Continued from page three)

million project would result in a savings of \$1 million over the life of the building, assumed conservatively to be 20 years.

Those features might include anything from gutters that collect rainwater from the roof for irrigating plants to ventilation that removes pollen and humidity from the air.

The U.S. Green Building Council has developed a number of criteria to guide architects in the design and construction of green buildings.

Architects, builders and citizens who are committed to sustainability can rely on these guidelines, which basically focus on five areas: 1) sustainable site planning; 2) water efficiency and conservation; 3) energy efficiency and the use of renewable energy; 4) conservation of materials and resources; and 5) indoor environmental quality.



disassembled and sent to the proper place for down-cycling when its owner is ready to replace it.

Choosing materials for durability and easy maintenance is also wise. "To install environmentally sensitive material is smart," Mercer-Ballard says, "but installing something that lasts a long time is smarter."

The average American throws out 4.5 pounds of waste every day, according to Urbanska. She recommends eliminating unnecessary disposables by using cloth rags, napkins and towels or using ceramic dishes and glass glasses instead of paper products. "Think reusables, not disposables," she says.

Eat Healthy Home-grown Foods

Buying locally grown foods is another way to live sustainably. More and more people are subscribing to community-supported agriculture (CSA's), which allows consumers to buy shares of a crop. The consumer pays the farmer a specified amount of money before the crop comes in - typically in January, February and March. Then, when the produce is ready, the consumer gets his or her share of the crop.

You can also shop at your local farmers' market. Since produce is grown nearby, energy used for shipping and packaging is kept to a minimum. Produce purchased in supermarkets is typically picked green and shipped an average of 1,000 miles. By buying locally, citizens get to enjoy vine-ripened vegetables and know that their action not only drastically reduces transportation costs but also supports the local economy.

Adopt Sustainable Practices

Sustainability is a lifestyle choice. Decisions you make on energy use, transportation and even lawn care will have an impact. Cleaning or replacing air filters on your air conditioning unit at least once a month will help conserve energy as will lowering the thermostat on your water heater and setting your refrigerator temperature at 36-38 degrees and your freezer at 0-5 degrees.

Purchasing a hybrid vehicle or a high-gas-mileage auto and buying radial tires and keeping them inflated will help. So will walking or riding a bicycle instead of driving everywhere.

You can use an electric lawnmower. You can minimize pesticide use. You can compost food scraps and leaves.

These and other everyday decisions can make a big difference in living sustainably. "Nothing's too small to make a difference," Urbanska says.

Especially For Kids

Saturday, April 22

Dr. Suess' "The Lorax" Downtown - F & M Trolley Barn

Performed live by The Blue Masque, 10 a.m., 125 East Liberty Street
When the Once-ler starts chopping down Truffula Trees to make the wildly popular Thneeds, the Lorax gives his all in protest, but to no avail.

Creepy Crawly Walks - Catawba College Campus Nature Preserve

Experience Nature- 9 a.m., 10 a.m., 11:30 a.m. (children under 12 must be accompanied by adult)

"Raptors and Reptiles" - Catawba College Campus

See live animals and learn about their habitats - 9:30 a.m. - 10:30 a.m.

Farmers Market- Downtown Salisbury

Supervised kit building sponsored by Home Depot, 7 a.m. - 2 p.m.

Kids' Zone - F & M Trolley Barn

Crafts and moon bounce 10 a.m. - 6 p.m. Downtown 125 East Liberty Street

Movie "The March of the Penguins" - F & M Trolley Barn

Downtown Salisbury, 125 East Liberty Street, 3 p.m. - 5 p.m.

Children are also welcome at the outdoor concert "EarthStock" on
Catawba College's Campus, 1-6 p.m. Saturday



Learn More about Creating a Sustainable Future

Next year, the Center will offer a Sustainability Conference and Convocation to help communities and individuals learn even more about ways to create a sustainable future.

Join us and others in this effort.
Please contact the Center at
kasmith@catawba.edu or 704-637-4727.



Become a leader in environmental solutions.

Environmental Science & Studies Program at Catawba College

Visit www.centerfortheenvironment.org
and www.catawba.edu/academic/environmentalscience.



Earth Celebration Sponsors



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INTERFACE





Our Regional Community Celebrates Earth Day 2006 in Downtown Salisbury

Friday, April 21

Sustainability Conference for Everyone

12:30 - 4:30 p.m. - Sustainability Conference: Trends, Opportunities, and Initiatives

Hosted by Catawba College Center for the Environment, Carolinas EcoCrescent, Charlotte Region Chapter of the US Green Building Council, and Sustainable North Carolina
Held at Catawba College Center for the Environment Building
2300 West Innes Street, Salisbury, NC

- **"Global Warming: Impact on the Carolinas, Development & Business Opportunities to Lessen its Effects"**
Michael Shore, Senior Air Policy Analyst, Environmental Defense
Tim Toben, CEO of Carolina Green Energy, LLC
Members of N.C. Global Warming Commission
12:30 - 1:30
- **"Calculating the Value of Green Building"**
Facilitator: Larry Shirley, Director, NC Office of Energy
Wes Evans, Herman Miller, Inc.
Jim Gleeson, AIA, President, Design Integration
Karen Alexander, LEED®, AIA, President, KKA Architecture
1:30 - 2:30
- **"Integrating Ecosystem Services into Community Design"**
Dr. John Wear, Director, Center for the Environment
2:30 - 3:00
- **"Sustainability Efforts in the Carolinas"**
Beth Clark, Executive Director, Carolinas EcoCrescent
Katherine Ansardi, President, Sustainable North Carolina
Van Shields, Director, Culture & Heritage Museums
3:00 - 3:45
- **Carolinas Eco-Crescent presents "Sustainable Enterprise"**
Sam Moore, CEO, Burlington Chemical Company
3:45 - 4:30

10th Anniversary Celebration

Please join Friends of the Catawba Center for the Environment as we kick off our 10th Anniversary Year in the F&M Trolley Barn. Star of Simple Living TV show **Wanda Urbanska** and Director of the NC Office of Energy **Larry Shirley** will join Director **Dr. John Wear** onstage at 6 p.m. to officially launch the festivities and the Sustainability Showcase.

Downtown Salisbury - For the family

5 - 10 p.m. - Earth Night Out in Downtown Salisbury

- Shops Open Late
- *Glimpse of the Truth* Jazz Trio at the Square
- Live Music & Entertainment
- Activities for Children



8 p.m. - Drum & Flute Circle, Spenzanelli's Coffee House, 329 N. Main Street

Complementary transportation between downtown Salisbury and the Center for the Environment building will be provided by the Salisbury Trolley System and biodiesel buses.

All events are free and open to the public.
For more information, call 704.637.4727 or visit www.centerfortheenvironment.org

Environmental Partners



Saturday, April 22

Earth Day Festivities

7 a.m. - 2 p.m. - Farmer's Market, South Main & Bank Streets

- Season's first fresh produce
- Fresh baked goods
- Live entertainment
- Supervised kit-building for children
- Other activities for children

9 a.m. - noon - Sustainability Showcase: Sustainable Products & Practices Display, F&M Trolley Barn

9 a.m. - 2:30 p.m. - Experience Our Earth, Catawba College Center for the Environment Building & Preserve

- **Creepy Crawly Walk:** Guided tours of Catawba College's 189-acre Ecological Preserve with stops at learning stations (easy walking)
Times: 9 a.m., 10 a.m., 11:30 a.m.
Children under 12 must be accompanied by an adult. Space is limited on a first-come, first-served basis. Sign-up sheet is located at back of CENV building.
- **Raptors and Reptiles:** See live animals and learn about their habitats
9:30 - 11:30 a.m.

10:30 a.m. - noon - Visit with Wanda Urbanska, Host of "Simple Living with Wanda Urbanska" TV Series, F&M Trolley Barn

Workshops

8:30 a.m. - 12:30 p.m. - Workshops

Catawba Center for the Environment Building

- **"Preserving North Carolina's Natural Heritage: The Role of Land Conservation in the Protection of Biodiversity"**
Ben Prater, Ecologist with Southern Appalachian Biodiversity Project & Catawba College Alumnus
8:30 - 9:30 a.m., Room 224 CENV
- **"Organic Farming & Lawn Care"**
Darrell Blackwelder of Rowan County Cooperative Extension, Salisbury Master Gardeners & Amanda Hooker, Catawba Environmental Science Student
9 - 9:50 a.m., Room 319 CENV
- **"Moving Communities Toward Sustainability"**
Dr. John Wear, Director of Catawba Center for Environment and Wanda Urbanska, Host of "Simple Living" TV series
9 - 9:50 a.m., Room 300 CENV
- **"Raptors as Indicators of Environmental Quality"**
Bob Pendergrass, Naturalist
9:30 - 10:30 a.m., Room 224 CENV
- **"Global Warming & the Struggles of the Inuit People"**
Carlos Velaquez, Director of the Department of Natural Resources and Environmental Affairs of the Southern Cherokee Nation
10 - 10:50 a.m., Room 300 CENV
- **"Vermiculture Options for Composting"**
Brian Rosa of N.C. Department of Environment & Natural Resources
10 - 11 a.m., Room 107 CENV
- **"Why Organic Food?"**
BreadRiot, Organic Food Co-op of Salisbury
10:30 - 11:30 a.m., Room 319 CENV
- **"The Next Industrial Revolution"**
(First Place in Earth Vision 2003 Environmental Film & Video Festival)
Movie, popcorn & panel discussion
U.S. Green Building Council, Charlotte Region Chapter
10 a.m. movie, 11 a.m. Panel, Room 300 CENV
- **"Citizen-based Science"**
Dr. Joe Poston, Assistant Professor of Biology, Catawba College
11 - 11:45 a.m., Room 224 CENV
- **"Hybrid Energy House for the 21st Century"**
Enertia Building Systems
11:45 a.m. - 12:30 p.m., Room 224 CENV
- **"Making Natural Cleaners & Disinfectants at Home"**
Jean Hall & Laura VanDenBerg
11:30 a.m. - 12:30 p.m., Room 319 CENV

1 - 6 p.m. - EarthStock

An Outdoor Concert for Campus and Community with Special Guests Lisa Renstrom, National President of the Sierra Club; Wanda Urbanska, star of Simple Living TV show; Larry Shirley, Director, NC Office of Energy along with top-flight entertainment, and other lovers of the Earth!

Excellent Entertainment including Jazz, Rock, Folk, Gospel, and Classical Music. Open mike after 6 PM.

Continue Earth Day on April 23 at Dan Nicholas Park

Together, working toward sustainable communities ...and celebrating Earth Day