

# LAWRENCE ENERGY CONSERVATION FAIR 2008

## Sustainable Business Tour, Saturday, October 11, 2008

The Lawrence Sustainable Business Tour featured four local businesses that incorporate energy conservation design and products. Those on the tour were able to observe alternative energy systems in action, and talk with business owners about actual cost savings and the experience of working in an energy efficient environment.



**Zarco Earth Friendly Fuels (on left)**  
900 Iowa Street

Zarco features Bio-Diesel and Ethanol fuels, a green roof, and has an onsite rain garden. They made efficient lighting and sign upgrades and also reused the concrete already onsite.



**Bowersock Mills and Power Company (above)**  
546 Massachusetts Street

Bowersock Mills is the oldest power producer in northeast Kansas. They run a Hydroelectric Power Generator and are certified "low impact" facility.

**The Castle Tea Room (below)**  
1307 Massachusetts Street

The Castle Tea Room uses Geothermal (ground source) heat pumps and a hot water radiant floor heating system. They also do CO2 monitoring and have a web-based building management system.



**The Community Mercantile (on right)**  
901 Iowa Street

The Community Mercantile has a high efficiency refrigeration system and uses efficient lighting. The café is 100% powered by renewable energy.. It also uses renewable materials for eating surfaces, natural flooring and employs natural lighting.



# LAWRENCE ENERGY CONSERVATION FAIR 2008

## Presentation, Wednesday, October 15, 2008

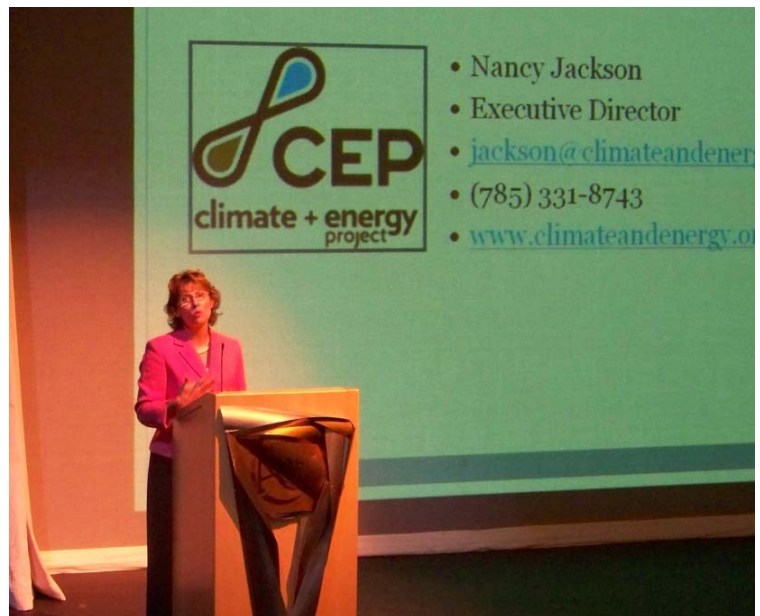
The City's Waste Reduction and Recycling Division invited the community to learn about energy efficiency and conservation efforts in Lawrence and Kansas from City of Lawrence Mayor Mike Dever and Nancy Jackson. The presentations were held at the Lawrence Arts Center on Wednesday, October 15th at 7:00 pm. Mayor Mike Dever welcomed attendees and shared an update on the efforts of the city's Climate Protection Task Force. Keynote speaker, Nancy Jackson, the Executive Director of the Climate and Energy Project, a project of The Land Institute, explained how her group works to combat climate changing greenhouse gases in Kansas and throughout the Midwest. Nancy Jackson sits on the Midwestern Greenhouse Gas Accord Advisory Group, the Kansas Energy and Environmental Policy Advisory Group and the Kansas Wind Working Group.



Mayor Mike Dever introduces Nancy Jackson, the Executive Director of the Climate and Energy Project.



Mayor Mike Dever shares an update on the city's Climate Protection Task Force.



Nancy Jackson answers questions from the attendees.



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On Sunday, October 19th, 2008 the City's Waste Reduction and Recycling Division hosted the **8th Annual Lawrence Energy Conservation Fair**. The Fair took place at Free State High School from 10 am to 5 pm. The goal of the Energy Fair is to help residents and businesses find sensible ways to reduce energy costs by choosing products and services that will increase the energy efficiency of our homes, businesses and personal transportation.

The Energy Fair hosted thirty-five exhibitors with professional environmental expertise: including local builders, architects, engineers, insulation contractors, and home energy efficiency specialists. Businesses offering residential wind and solar energy systems were also present. A variety of alternative fueled vehicles were on display at Free State High School, and fair attendees were allowed to test drive the electric bicycles offered by Cycle Works.

In addition to these exhibitors, a line-up of guest speakers gave presentations throughout the day, which provided attendees more specific information on a variety of topics. The Featured Presentation on Kansas Energy Policy by Kansas Department of Health and Environment Secretary Rod Bremby was a great conclusion to the Fair.



Cottin's Hardware, a Premiere Sponsor of this year's Fair, provided free popcorn snacks to the public and drawings for reusable shopping bags.



The Kansas Soybean Commission displayed their bio-diesel truck and information regarding soy bio-diesel and its availability in Kansas.



Michael Almon with Paradigm Design talks to an attendee about environmentally sustainable building materials and their use in residential home construction.



Westar Energy attended to promote the "Efficiency Works" program and information regarding compact fluorescent light bulbs.



Secretary Rod Bremby of the Kansas Department of Health & Environment speaks about KS energy policies and future opportunities.



The new banners promote all three of the premiere sponsors for the 2008 Energy Fair: Black Hills Energy, Cottin's Hardware, and Lawrence Chamber of Commerce.

Sarah Hill-Nelson, representing the Lawrence Chamber of Commerce exhibit has a policy discussion with Kansas Senator Marci Fransisco.



Home Performance Services gave advice to attendees about how to test homes and businesses for energy efficiency and how to correct simple building flaws.



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## Sustainable Homes Tour, Sunday, October 19, 2008

The Lawrence Sustainable Homes Tour was part of the 13th Annual National Solar Tour which showcases homes and buildings using solar energy, energy efficiency, and other sustainable technologies to reduce their monthly utility bills and help tackle climate change. The tour offered a first-hand look at earth-friendly building technologies.

Approximately eighty people filled two tour buses departing from the Lawrence Energy Conservation Fair, one in the morning and another in the afternoon, to tour seven different sustainable homes in and around the Lawrence area. Homeowners and builders were on hand to explain the various energy-saving features and products used in their homes.



Tour guests load the bus for the sold out 10:30 AM tour, departing from the Lawrence Energy Conservation Fair at Free State High School.



(on left) Tour guests wait their turn to walk through the O'Brien cottage, a smaller structure on the tour, featuring timber frame construction, straw bale and straw light clay walls and adobe floors.

(below) Neal Ezell explains how this Energy Star rated home is 60% more efficient than a standard construction home. The techniques he used included added spray foam insulation, a heat recovery ventilator and a ground source heat pump.



(above) Tour participants examine the Ferrara home, which features straw bale construction, an integrated greenhouse, salvaged materials, sustainable wood siding and natural plasters.