

2009 Addison County
GREEN ENERGY EXPO
BUILDING SUSTAINABLE HOMES & BUSINESSES



Workshop Offerings 2009

- **Biofuel Boilers**
2:00 - 2:45
Classroom A (E108)
Presented by: Basil Stetson - Building Energy
Using a gasification process, intelligently designed and engineered wood, grain, pellet and corn heating systems burn without smoke and produce overall efficiencies of up to 91%. These bio-fuel boilers use renewable, CO₂ neutral fuels in place of fossil fuels to heat our homes and businesses. Using bio-fuel gives you the ability to protect yourself from unpredictable fuel prices and reduce our dependency on fossil fuel sources. Multi-fuel boilers can run for days on a single load of fuel. Discover the benefits of bio-fuel boiler in this informative workshop.

- **Building Green Homes**
11:00 - 11:45
Classroom E (E104)
Presented by: Jean Terwilliger, Architect
From site selection, orientation, and design, to construction methods and materials, here's what you need to know to get started in the process of creating a sustainable home for the next century.

- **Children's Programs: Reduce, Reuse, and Recycling**
All Day
Choir Room (G112)
Presented by: Don Maglienti, Program Coordinator, Addison County Solid Waste Management District
Learn more about reducing, reusing, and recycling and express your creativity! Don will present information on how to compost at home to reduce your carbon footprint, with a special focus on composting with worms. Kids will learn about what goes on in a backyard compost bin, and can practice setting up an actual worm bin. Reusable materials will also be available throughout the day for kids to create and personalize their own recycled craft masterpiece!

- **Combining Solar/Wind with Backup Systems**
 3:00 - 3:45
 Classroom A (E108)
 Presented by: **John Bittersdorf**
 One of the best paybacks in renewable energy is solar hot water, and individual wind towers are becoming cost-effective for generating electrical power. This workshop will get you started in assessing your site, sizing solar, wind, and backup systems, navigating the permit process and tapping incentives for business or residential solar and wind technologies.
- **Commercial Green Building**
 2:00 - 2:45
 Classroom F (E102)
 Presented by: **Bread Loaf Corporation**
 Buildings are the greatest source of energy consumption and greenhouse emissions. Green buildings are a successful synergy of resource efficiency, environmental sensitivity, and attention to human health and well-being. The benefits of building "green" include reduction of waste, decreased water usage, energy savings, reduced operating and maintenance costs, improved indoor air quality, and increased occupant health and productivity. See how to incorporate appropriate land use and environmentally sensitive planning, energy efficiency and renewable energy technologies, water conservation, green building materials, durability, recycling and waste management, indoor air quality and occupant health and comfort.
- **Community Hydro Electric**
 10:00 - 10:45
 Classroom A (E104)
 Presented by: **Ben Gordesky**
 With more than 1,200 dams in Vermont which have historically provided a reliance power source to support our industries, many communities in Vermont are considering hydropower to generate electric locally, affordably, and sustainably. Find out how hydropower works, and how you can determine if it is feasible for your town.
- **Creating an Energy Efficient Home**
 10:00 - 10:45 (Part 1)
 11:00 - 11:45 (Part 2)
 Classroom B (E107)
 Presented by: **Tom Perry - Efficiency Vermont**
 Part I: Understand air infiltration and how it affects the comfort, safety, and durability of your house.
 Part II: Useful strategies and recommended products for creating an energy efficient home.
- **Create Your Own Off-Grid Wind Power System**
 2:00 - 2:45
 Classroom E (E104)
 Presented by: **Paul Kenyon**
 This workshop compares the kinds and amounts of our everyday energy sources, offers a quick guide to home siting and design in the Champlain Valley to maximize passive energy gain, and introduces you to small wind power systems.

- **Energy Efficient Lighting**

2:00 - 2:45

Classroom D (E105)

Presented by: **Jon Howell - Efficiency Vermont**

Quality, energy-efficient compact fluorescent light bulbs (CFLs) use less than a third the electricity of incandescent bulbs and last about six to ten times longer. Today's energy-efficient bulbs start instantly with no perceptible flicker or buzz, are much smaller than earlier versions, and offer good light quality. Find out how you can use CFLs to save energy and protect the environment.

- **Essential Bike Repair & Use**

11:00 - 11:45

Classroom C (E106)

Presented by: **Chas Lyons - VT Bikeped Association**

Get ready to enjoy the ride! Explore essential bike repair and use to keep you safe on the road. Learn traffic laws for sharing the road in day and night. See how to change a flat and keep your bike tuned and adjusted for optimum comfort. Find out how to join upcoming bike events and projects of local bike clubs and the Vermont Bicycle and Pedestrian Coalition (vtbikeped.org).

- **Generating Electricity with Photovoltaics**

10:00 - 10:45

Classroom A (E108)

Presented by: **Nick Ponzio - Building Energy**

Solar energy systems make it possible to effectively use the abundant energy the sun produces. In photovoltaics (PV), electrons freed by the interaction of sunlight with semiconductor materials in PV cells are captured in an electrical current. Find out how photovoltaics work and how they can be incorporated into your renewable energy system.

- **Geo-thermal Power-It's Right Under Your Feet!**

3:00 - 3:45

Classroom C (E106)

Presented by: **Jeff Williams**

This workshop will get you started assessing your site, sizing a system, navigating the permit process and tapping incentives for residential group source heating and cooling.

- **Green Burial**

10:00 - 10:45

Classroom C (E106)

Presented by: **Ron Slabaugh**

Vermont law allows you to bury on your own property, offering substantial savings and a "green" alternative to traditional funeral home services. Each year, the funeral industry buries 30 million board feet of hardwood, 90,272 tons of steel, 1.6 million tons of concrete and 827,000 gallons of embalming fluid. Natural burial is a growing international movement where the body is not embalmed, and is buried in a shroud or simple biodegradable casket without a vault or grave liner. Discover the better way to lay yourself and your loved ones to rest.

- **Green Energy from Healthy Forests**

10:00 - 10:45

Classroom D (E105)

Presented by: David Brynn, Vermont Family Forests

Gain a deeper understanding of the ecological functions and values of healthy Vermont forests. Explore the forest management practices that conserve forest health and enhance forest productivity for energy and timber production.

- **Heating with Wood Pellets**

3:00 - 3:45

Classroom F (E102)

Presented by: Greg Pahl, wood pellet furnace user and ACORN Energy Co-op, Chris Brooks, Principal, Vermont Wood Pellet Company, and Gary Barnett, experienced wood stove installer & Cornwall Energy Coordinator

This workshop will describe types of wood pellets and pellet burning heating systems, and share best practices for selecting, storing, and using wood pellets. Participants will learn what to consider when buying and using wood pellets, their heating value and expense relative to other fuel choices, and the status of local wood pellet production in Vermont and Addison County.

- **Homegrown Feed, Food & Fuel in Addison County**

2:00 - 2:45

Classroom C (E106)

Presented by: Marshall Webb - Shelburne Farms

Find out what Vermont farmers and researchers have learned to-date about growing, harvesting, and processing soybean and sunflowers to for use in the production of biodiesel, livestock feed and food-grade oil. The future of farming and Vermont may depend upon it.

- **Kicking the Car Habit**

3:00 - 3:45

Classroom D (E105)

Presented by: Deb Sachs, Director, Community Climate Action, 10% Challenge Program & Nadine Barnicle, Community Relations Manager, Addison County Transit Resources (ACTR)

Did you know 46% of Vermont's greenhouse gases come from transportation? Come tell us how you get around. As transportation costs rise and global climate change looms we are all seeking solutions. This workshop will focus on how you can make changes in the way you get around. Find out how to save money and how easy it is to green up your workplace and community by finding alternatives to your car. We'll talk about creative ways to get to work, school or even the grocery store in Addison County.

- **Making Your Home a Healthy and Enduring Place to Live**

11:00 - 11:45

Classroom A (E108)

Presented by: Fred Lugano

Is your house making you sick and sucking the money out of your pocket? Take control of your home's building systems! Find out how your house functions and what you can do to make your home healthy, safe, comfortable and affordable to live in. We will demonstrate simple, affordable ways to modify your home so it will last a lifetime and provide a healthy living space.

- **Pete's Greens and the Hardwick Area Local Food Revolution**

KEYNOTE SPEAKER!

1:00 - 1:45

Auditorium

Presented by: Pete Johnson - Pete's Greens

Pete Johnson, owner of Pete's Greens, a four-season organic vegetable farm located in Craftsbury, Vermont, will talk about "Pete's Greens and the Hardwick Area Local Food Revolution." Pete is a 1997 graduate of Middlebury College with a degree in environmental studies. For his senior thesis he built a solar greenhouse on campus. His experiments there convinced him that greenhouse production of vegetables could help make a farm profitable. His vision was proven viable this winter by using four self-engineered and built moveable greenhouses, heated with recycled vegetable oil from restaurants when necessary. Through weeks of snow and some single-digit temperatures, Johnson supplied his CSA customers with fresh lettuce and other greens grown inside the greenhouse.

- **Pooping in a Post-Oil World: Composting Humanure**

3:00 - 3:45

Classroom B (E107)

Presented by: Ron Slabaugh

Why waste pure, drinkable water, our most precious resource, and energy for sewage treatment and disposal of sludge? Try composting humanure. We'll show you how easy it is to create a sawdust toilet and urine bucket, and compost humanure in your back yard. Turn a waste disposal problem into a valuable resource.

- **Relocalization of Food and Energy**

2:00 - 2:45

Auditorium

Presented by: Jock Gill

Join this workshop to find out why sustainable agriculture is essential to our future; why we must keep food and energy dollars within our local economy; how to store, transport and use the solar energy stored in local biomass; and how banking, education health, trash and transportation, and more fit into this equation.

- **Root Cellars and Food Storage Structures: Sustainable Food Storage for the Home and Farm**

10:00 - 10:45

Auditorium

Presented by: Chris Chaisson

Root Cellars have regained popularity for their energy free, natural cooling systems that preserve food for over six months. Farms and homeowners are both seeking ways to reduce energy and support their local food systems. Root cellars and other super-insulated and thermal mass based spaces and structures are effective ways of addressing these issues in a holistic manner. In this presentation we will look at the classic root cellar, why it works, the many different types of structures that are possible when we apply those principles to creating energy efficient spaces that retain optimum storage conditions for up to six months.

- **Sustainable Business**

11:00 - 11:45

Classroom F (E102)

Presented by: TBD

In this session we will explore a number ways that you can significantly improve the energy efficiency of your business, focusing primarily on lighting, motors, heating, cooling & ventilation and compressed air.

- **Thinking About Living Off the Grid?**

11:00 - 11:45

Classroom D (E105)

Presented by: Kenyon, Borg, Murphy, Putnam

Learn from the long-term off-grid life experience of our panel, who will guide you through the major decisions of building or turning your existing home into an off the grid, sustainable home.

- **VISION 2020: What's your vision for Addison County in the Year 2020?**

10:00 - 10:45

Classroom F (E102)

Presented by: Jonathan Corcoran

We have entered a period of rapid change some call the "Great Disruption," some the "Transition" and others, "Our Moment of Grace." A new world is being born as the old one breaks down. VISION 2020 is a document, now a booklet, which was created by 150 citizens at the Addison County Conservation Congress in October 2008. It is a vibrant vision of a cooperative, entrepreneurial and participatory culture, community-centered and ecologically sustainable, living close to the land on which it directly depends for many of its basic needs.

Come learn more about VISION 2020 and then participate by sharing yours. We'll each choose one of the "12 Rooms" of our community, read about that room's vision, ideas and actions and then write down our own. Then we'll share what we discovered and focus on an action we'll take in the 12 months. Take part in the launch of this exciting community experiment in designing and shaping our future together!"

- **What Your Town Can Do To Reduce Carbon Emissions**

2:00 - 2:45

Classroom B

Presented by: Laura Asermily - MAGWAC

This program provides training to Town Energy Coordinators and others who plan to offer the Low Carbon Diet Workshop in their communities. Find out how to organize, publicize and facilitate the LCD Workshop, and inspire your neighbors to adopt a low-carbon lifestyle.