

NEK Renewable Energy Fair

Lyndon State College

Seminar / Workshop Schedule – March 27, 2010

Button-up Vermont!

(60 min) 10:00 am / BMR LAC400

Presented by: Michael Kennedy, Residential Project Manager

Button-Up Vermont, in partnership with local community groups and businesses, offers free workshops to help residents learn more about reducing home energy use and how changes can improve the comfort, safety, longevity, and value of a home. Learn the fundamentals of heat loss, simple do-it-yourself improvements, significant saving opportunities, and available technical and financial resources to help you get started.

What's New in New Construction?

(90 min) 10:00 am / T202

Presented by: Jeff Gephart, Vermontwise Energy Services, Inc.

Join Jeff Gephart for an overview of proposed changes to Vermont's energy code for residential construction. The 90-minute seminar will also provide useful information about Vermont's green building programs, Efficiency Vermont's services, and the US EPA ENERGY STAR program.

Geothermal Energy in Iceland

(30 min) 10:00 am / LAC 414

Presented by: Chuck Kezar, Adjunct Professor, *Lyndon State College*

Iceland, dedicated to a hydrogen society, is the leading world-wide developer of geothermal energy. This presentation will cover the technology of geothermal energy from magma and the movement in Iceland toward a hydrogen economy.

Solar Heat and Hot Water

(30 min) 10:45 am / LAC 412

Presented by: Brad Vietje, *GreenWorks Solar Store*

Solar hot water is one of the most cost-effective renewable energy options for homeowners. Well-designed solar water heating systems can provide 50%-75% of the hot water needed for a typical family in the Northeast Kingdom. Learn about systems for heating domestic hot water that reduce the impact on our environment.

Kilowatt-hours, BTUs and ALL THAT: An Energy Literacy Primer (60 min) 11:30 am / BMR

Presented by: Dr. Benjamin Luce, Physics Professor, *Lyndon State College*

This one-hour workshop will cover the basic concepts essential for energy literacy. When comparing renewable energy with conventional energy sources, Professor Luce will also examine the ethic of a society based on the "solar yardstick" as opposed to a society dependent on nonrenewable sources of energy.

Upgrading Your Heating System to Wood Pellets

(30 min) 11:30 am / LAC 412

Presented by: Andrew Boutin, *Pellery LLC*

A presentation overview of Pellery's PB-3550 wood pellet burner system. This Vermont Made wood pellet burner was designed to replace the oil burner in new and existing heating systems. It allows home and small business owners to use their existing heating systems to burn wood pellets instead of oil.

Efficiency Vermont Residential Services

(30 min) 11:30 am / LAC 414

Presented by: Bob Murphy, Business Development Specialist / Efficiency Vermont

Are you concerned about the rising cost of electricity and heating fuel? Efficiency Vermont can help you slash energy costs. This seminar will provide valuable information about rebates, incentive programs, and federal tax credits to help homeowners pay for energy efficiency improvements.

What is a Deep Energy Retrofit? (30)

(30 min) 12:15 pm / T202

Presented by: Scott Gardner, President *Building Energy Corporation*

Building Energy & Northeast Construction are leaders in the design and construction of energy efficient buildings. The seminar will introduce the thermal envelope concept. Learn about the different types of insulation. What are r-values? And, what renewal energy systems are best suited to reduce the carbon footprint of your building?

Small Wind Turbines for Homes, Businesses

(30 min) 12:15 pm / LAC 414

Presented by: Dwayne Cormier, DC Energy Innovations

Solar Power for Your Home or Business

(30 min) 1:00 pm / BMR LAC 400

Presented by: David Palumbo, founder *Independent Power LLC*

The solar electric industry is one of the fastest growing economic sectors on earth. Independent Power LLC is one of Vermont's most experienced teams of solar professionals. This workshop on Solar PV and Solar Hot Water will highlight the possibilities for using the sun's energy for homes and businesses in the Northeast Kingdom.

Energy Efficient Improvements for Your Home

(30 min) 1:00 pm / LAC 412

Presented by: William Fitzpatrick, *Shelter Construction*

Will Fitzpatrick is a Certified BPI Energy Auditor who evaluates residential buildings for energy loss. After identifying heating deficiencies, he provides homeowners with energy saving recommendations and an implementation strategy for cost effective building improvements. Take this opportunity to ask questions about a "whole house" diagnostic evaluation of the building's insulation, air sealing, heating system, windows and doors.

Generating Renewable Energy at the Coventry Landfill (30 min) 1:00 pm / LAC 414

Presented by: Avram Patt, General Manager, Washington Electric Cooperative

Washington Electric, a rural cooperative since 1939, services more than 10,000 member-owners in Central Vermont. The Coventry plant currently provides 70% of Washington Electric's power at below market rates.

(Schedule confirmed as of 03/05/10)