

Zero-Energy Homes (ZEH): Can Your Students Get Us There?

For Teachers of Grades 4-8

May 2, 2009

8:30am – 1:30pm

Centre County/Penn State Visitor Center & The MorningStar Solar Home**



Homes use about one-fourth of all of the energy used in the United States. In this workshop, teachers will be introduced to a series of curriculum modules that guide students through the discovery and application of the key science and engineering principles of zero-energy homes (ZEH). Building on the success of the Penn State 2007 Solar Decathlon house, the modules include high-performance building envelopes, efficient appliances, and solar technologies including water heating, photovoltaic electricity, and passive solar heating. Modules can be used separately or together to build toward a comprehensive challenge to design a ZEH home, including easy-to-use tools to guide design choices and their impact on energy use.

Participants will receive:

- A notebook with all modules and supporting resources
- A toolkit of instruments including a wattmeter, indoor/outdoor thermometer, and light meter
- Continental Breakfast and Lunch

This workshop is FREE to all educators with Act 48 credit available.

**Sponsored by
The Center for Science and the Schools and
The Center for Sustainability
Pennsylvania State University
University Park, PA 16802**

To register visit: <http://csats.psu.edu/workshops/registry.cfm>

**For other issues: Call or email Karen Eklund at KLE11@psu.edu
or call at 814 863-9560**

****We will meet at the Penn State Visitor Center (Do not come to Chambers Bldg. first!) Directions to the Visitor Center: The Center is located at Park Avenue and Porter Road across Porter Road from Beaver Stadium. From HWY 322 By-pass take the Park Ave. exit. Turn RIGHT toward campus, at the third stoplight turn LEFT onto Porter Rd. Immediately turn LEFT into the parking lot for the Visitor Center. Parking is free. If you get lost call the Center at 814 231-1400.**