

**Professional Development Workshop  
for Science 10, Physics 11 and Physics 12 Teachers**

# **Physics Teaching for the 21st Century**

**Making Physics Relevant to Global Issues:  
Renewable Energy, Climate Change**



**October 23<sup>rd</sup> 2009, 9am-3pm**

***Department of Physics & Astronomy (Hennings Room 208)  
University of British Columbia***

In this workshop we will explore how to introduce global issues of energy and the environment into Physics 11/12 and Science 10 classrooms while keeping within the constraints of provincial curricula. The aim is to make physics more relevant to the real world, to show how it provides a solid framework for discussing global issues, and to interest a wider range of students in the subject. We will demonstrate a variety of teaching aids and online teaching resources, including our new “Real Physics” website.

To register, visit <http://www.physics.ubc.ca/outreach/web/workshops/workshops.php>;  
Question? Email us at [outreach@phas.ubc.ca](mailto:outreach@phas.ubc.ca).

## **Workshop Agenda**

- 9 -10am: Presentation: Understanding the Earth’s climate with high school physics.
- 10 -11am: Demonstration: Creating a suite of thermodynamic experiments for your classroom with an oven thermometer.
- 11 -12pm: Presentation: Applying high school physics to assess our prospects for renewable energy production.
- 12 -1pm: Lunch
- 1 - 3pm: Computer workshop
  - Accessing various physics teaching resources.
  - Analyzing data from experiments with a spreadsheet.