

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

Teaching Physics Using 21st Century Methods: Social Media, Digital Technology, and the World Wide Web



October 22nd, 2010, 9am-3pm

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

In this workshop we will explore how to utilize social media and web technology in teaching Physics 11/12 and Science 10. The aim is to engage students using methods that are relevant to them. Dr. Raul Pacheco-Vega, award nominated blogger and instructor at UBC, will talk about the use of social media in classrooms through an interactive workshop. We will then discuss a variety of free online resources available for physics and science teachers. In the afternoon, we will use our C21 – physics teaching in the 21st century website to demonstrate how to use online materials and hands on activities (making an LED flash light and measuring energy consumption using kill-a-watt meter) in class.

Registration: To register, visit <http://outreach.phas.ubc.ca/>

Registration fee: \$25 +HST (covers supplies for building the LED flash light and lunch)

Workshop Agenda

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| 9 :00-10:30am | Workshop by Dr. Raul Pacheco-Vega: Incorporating Social Media and Web Technology in Science Teaching |
| 10:30-12:00pm | Discussion: online resources for teaching physics and science |
| 12:00-1:00pm | Lunch |
| 1:00 – 3:00pm | Lighting and LED flashlight by Dr. Chris Waltham <ul style="list-style-type: none">○ Use materials from the C21 website (http://c21.phas.ubc.ca) to teach lighting, energy use, and color mixing in class○ Make a tri-colour flashlight, which can be used to demonstrate colour mixing○ Use a kill-a-watt meter in class to demonstrate energy consumption |