

# CWSF 2006 - Saguenay, Québec



## Derek Hood

### Glowing Galore

**Division:** International

**Category:** Junior

**Region:** Kiwanis Southeast Alberta

**City:** Medicine Hat, MB

**School:** Seven Persons School

**Abstract:** This project studied the effects of three wavelengths or frequencies of visible light on a phosphorescent material. Monochromatic LED's were used in a 'home designed environment' and the re-emitted light measured. Only the blue light was found to have enough energy in the photons to excite the electrons in the phosphor to reach the excitation/meta-stable state and allow the object to glow-in-the dark.

Awards	Value
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Junior Sponsor: Encana Corporation	\$300
Total	\$1 300