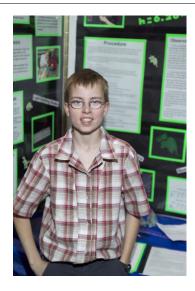




## CWSF 2006 - Saguenay, Québec



## **Derek Hood**

## **Glowing Galore**

Division: Category:	International 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. Monochromic 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	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Physical & Mathematical Sciences - Junior	\$300
Sponsor: Encana Corporation	
Total	\$1 300



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