

ESPC 2010 - Peterborough (Ontario)



Sunny Dye-Light: Dye-Sensitized Solar Cells

Division: Sciences physiques et des mathématiques

Catégorie: Junior

Région:

Ville: ,

École:

Sommaire: This project tested the solar conversion efficiency of three inexpensive natural anthocyanin dyes (blackberry, pomegranate and raspberry) when used in dye-sensitized solar cells. The solar cell efficiency was measured using an Oriel I-V (current-voltage) Solar Simulator. Blackberry dye was found to have the highest average efficiency. A prototype for charging mobile devices and music players was constructed utilizing the dye-sensitized solar cells.

Prix	Valeur
Bourse d'études de l'Université Western Ontario	4 000,00 \$
Médaille d'or - Bourse de début d'études de 4 000 \$	
Commanditaire: Université Western Ontario	
Médaille d'or - Innovation environnementale - Junior	11 500,00 \$
Commanditaire: EnviroExpo, présenté par VIA Rail Canada	
Total	15 500,00 \$