



## CWSF 2006 - Saguenay, Québec



## Kenneth Ka Ho Wong

## **Black Eccentric Magic**

**Division:** Health Sciences

Category: Senior

**Region:** Greater Vancouver **City:** Vancouver, BC

School: Sir Winston Churchill Secondary

Abstract: The frequency-independent characteristics of five original elliptical dipole

antennas of various eccentricities are evaluated using homemade equipment. Preliminary results indicate a flat frequency response from 770MHz to 2600MHz. The novel antenna demonstrates potential for electronic devices operating at multiple frequencies, such as PDAs or notebook computers with cellular, Wi-Fi, and GPS capabilities. Moreover, the antenna can be integrated into automobiles for radio and navigation

technologies.

Awards	Value
Ministère du Développement économique, de l'Innovation et de	\$1 000
l'Exportation Award	
Sponsor: Ministère du Développement économique, de l'Innovation et de	
l'Exportation du Québec	
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Automotive - Senior	\$300
Sponsor: AUTO21	
Bronze Medal - Engineering - Senior	\$300
Sponsor: Youth Science Foundation Canada	
Total	\$2 600



