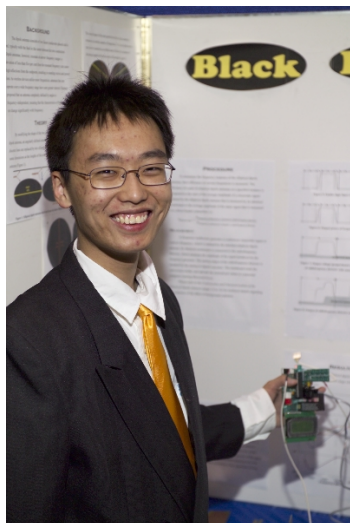


CWSF 2006 - Saguenay, Québec



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