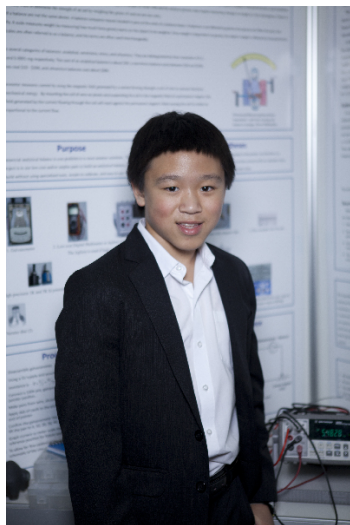


CWSF 2013 - Lethbridge, Alberta



Mac Wong

Building a Low-Cost Semimicro Balance

Challenge: Innovation

Category: Junior

Region: Winnipeg Schools

City: Wpg, MB

School: Grant Park High

Abstract: Analytical and micro balances are very expensive and thus beyond the reach of the average person. An analog galvanometer and a low-cost multimeter can be used to construct an analytical balance for under \$100. Use of a precision multimeter can result in a semimicro balance with an estimated resolution of 2 micrograms.

Biography

I am a Grade 7 student at Grant Park High School in Winnipeg. I am taking Grade 5 piano and expect to write my RCM exam this fall. I also like playing badminton. I believe we live in a throw-away society where products are thrown away instead of being sold, repaired, or repurposed. To do my part for the environment, I used as many recycled parts as I could in my project.

Awards

Value

Challenge Award - Innovation - Junior Sponsor: BlackBerry	\$500
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Total	\$5 200