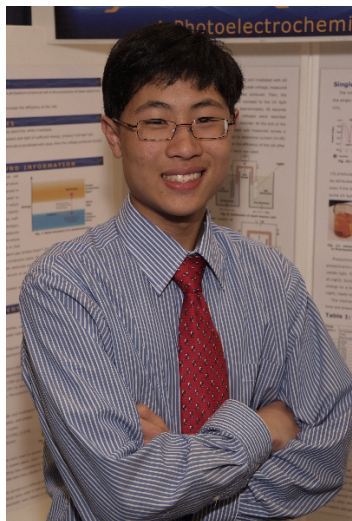


CWSF 2007 - Truro, Nova Scotia



Tim Rappon

Power It Clean - a Photoelectrochemical Cell

Division: International / Automotive

Category: Intermediate

Region: Northwestern Ontario

City: Thunder Bay, ON

School: Hammarskjold High School

Abstract: A photoelectrochemical cell consists of semiconductor and platinum electrodes in an electrolyte. Electricity and hydrogen gas are generated when the semiconductor electrode is irradiated with light. Promising results were obtained when the semiconductor electrode was coated with dyes.

Biography

I suppose I consider myself to be multi talented. This will be my third year as a CWSF finalist; I have won the Best in Fair award from the North Western Ontario Regional Science Fair for three years in a row. At last year's CWSF, I won the AECL award of excellence in science as well as an honourable mention in my division. I'm also in grade 8 piano and will be competing at provincials later this year. I've been awarded medals for excellence (best in Ontario) for Theory 1 and Piano 7. I'm a member of Hammarskjold's cross-country running and badminton teams, and enjoy soccer, skiing, and cycling. For the past few years, I have been an active and enthusiastic participant in my community, participating in over 5 organizations including the Youth Advisory Council, Citizens Concerned About Pesticides, the Natural Helpers, Kids Help Phone, and Youth With an Open Mind. I'm always looking for a challenge, and I'm definitely looking forward to this year's CWSF.

Awards

Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Automotive - Intermediate Sponsor: AUTO21	\$300
Bronze Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$300
Total	\$1 600