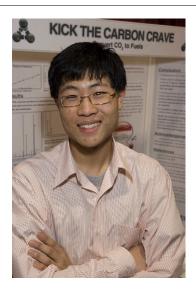




CWSF 2008 - Ottawa, Ontario



Tim Rappon

Kick the Carbon Crave: Convert CO2 to Fuels

Division: International / Environmental Innovation

Category: Intermediate

Region: Northwestern Ontario **City:** Thunder Bay, ON

School: Hammarskjold High School

Abstract: Carbon dioxide is converted to methane, methanol and ethanol under

photocatalytic conditions in the presence of selected additives. Analysis of the products was done using gas chromatography and mass spectrometry. This technology would enable a carbon neutral economy and solve energy shortages by recycling the carbon dioxide generated from the burning of

fuels.

Biography

I suppose I consider myself to be multi-talented. This will be my fourth year as a CWSF finalist; I have won the Best in Fair award from the North Western Ontario Regional Science Fair for four years in a row. I'm working on my grade 9 piano, and recently won the Silver Tray for senior piano at my local festival. 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 participant in my community, and a member of Youth Advisory Council, Citizens Concerned About Pesticides, Natural Helpers, Kids Help Phone, and Youth With an Open Mind.

Awards	Value
Renewable Energy Award - Intermediate	\$750
Sponsor: Ontario Power Generation	
The University of Western Ontario Scholarship	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
Honourable Mention - Environmental Innovation - Intermediate	\$100
Sponsor: EnviroExpo, Presented by VIA Rail Canada	
Silver Medal - Physical & Mathematical Sciences - Intermediate	\$700
Sponsor: Encana Corporation	
Total	\$3 050



