



ESPC 2010 - Peterborough (Ontario)



Biographie

I am fifteen years old, the eldest of five children, and am currently home schooled. In my spare time, I enjoy playing the piano, cycling, chess, and swimming. I was the gold medalist in Intermediate Physical and Mathematical Sciences at the Canada-Wide Science Fair, in Ottawa, 2008. I have always been keenly interested in science, especially the field of chemistry. My career plans involve research related to renewable energy and hydrogen.

Jordan Wentzell

Carbon Conquered by Sea, Salt, and Sun

Division:
Sciences physiques et des mathématiques

Catégorie:
Sénior

Région:
Northwestern Ontario

Ville:
Thunder Bay, ON

École:
Sommaire:

Sommaire:
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Sommaire: The hypothesis of this experiment is that carbon dioxide could be extracted from the atmosphere through the spontaneous reaction with sodium hydroxide, generating sodium carbonate and water. The sodium hydroxide required for the reaction could be obtained by solar-powered electrolysis of sea water. The electrolysis would also produce hydrogen, which could provide electrical or thermal power, and chlorine, which could be used for industrial processes.

Prix	Valeur
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie	4 000,00 \$
Bourse de début d'études de 4 000 \$	
Commanditaire: Université Dalhousie, Faculté des sciences	
Prix d'admission en sciences de UBC (Vancouver)	4 000,00 \$
Médaillé d'or, sénior - Bourse d'admission de 4 000 \$	
Commanditaire: The University of British Columbia (Vancouver)	
Bourse d'admission de l'Université d'Ottawa	20 000,00 \$
Médaillé d'or, sénior ? Bourse d'études de 20 000 \$ (5 000 \$ par année	
pendant 4 ans)	
Commanditaire: Université d'Ottawa	
Bourse d'études de l'Université Western Ontario	4 000,00 \$
Médaillé d'or - Bourse de début d'études de 4 000 \$	
Commanditaire: Université Western Ontario	
Médaille d'or - Sciences physiques et des mathématiques	1 500,00 \$
Sénior	
Commanditaire: Encana Corporation	
Total	33 500,00 \$



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