



ESPC 2014 - Windsor (Ontario)



Biographie

Hi! My name is Robby Xu and I am a science, music and film enthusiast in grade 10, from Bayview Secondary School in Richmond Hill, Ontario. My science fair project idea stemmed from my visit to China a few years ago where I witnessed the severity of air pollution. Combined with my passion for solving problems, I took on the challenge of finding a better way of reducing carbon dioxide emissions. With that in mind, I discovered the wonderful adsorbent and soil enhancement properties of activated charcoal?and voila! My project was born. Besides from science, I am an avid musician and pianist, having performed at various venues across the GTA. I also spend time during the weekends playing trombone in the Toronto Youth Symphonic Winds. At school, the engineering, debate, and DECA clubs take up most of my extra-curriculars. Plans I have for future investigations of my project include more trials and continuous refinements on the efficiency of the adsorbent rates. The one major advice I would give for other students looking to do a project is to never stop searching. There will always be new ideas to discover, new experiments to try out, and new problems to solve.

Robby Xu

Fertilizer from Flue: Carbon Capture and Storage using Activated Charcoal

Environnement
Intermédiaire
York
Markham, ON
Bayview S.S.
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nmaire: My project involves the use of activated charcoal as a biodegradable substance that can effectively capture carbon dioxide. Activated charcoal has adsorbent properties that enable it to reach surface areas higher than 1000m2/gram, and is also an effective soil additive and nutrient enhancer. The goal of this project is to provide an environmentally friendly transition from a predominantly fossil-fuel reliant society to a renewable-energy future.

Prix	Valeur
Prix d'excellence - Intermédiaire - Médaille de bronze	100,00 \$
Commanditaire: Société de gestion des déchets nucléaires	
Bourse d'études de Western University	1 000,00 \$
Médaillé de bronze - Bourse d'admission de 1 000 \$	
Commanditaire: Université Western	
Total	1 100,00 \$



Sciences jeunesse Canada B.P. 297 Pickering (Ontario) L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

