



ESPC 2012 - Charlottetown (Ile-du-Prince-Édouard)



Biographie

I'm John Mikhaeil and I am a student at King's Christian Collegiate in Oakville, Ontario. I participate in basketball and volleyball sports teams and am part of Student Council at my school. I plan to enter a science-related undergraduate program and then carry on to medical school to become a physician. The inspiration for this project came after I was assigned an independent research project for my Chemistry course. My interest in natural fuel sources led me to the remarkable Jatropha curcas plant and after further research, I chose this topic as my research and created an original experiment to carry out. In the future, I hope to slightly change the procedure to produce more successful results, especially in one of the samples which did not have enough Phorbol esters removed as I had hoped. The main advice I would give to students thinking about doing a project is that they should never give up or become lazy when the project seems to be unsuccessful or it is becoming to much work.

John Mikhaeil

Detoxification of Jatropha oil-Cake from Phorbol esters

Défi:	Environnement
Catégorie:	Sénior
Région:	Bay Area
Ville:	Mississauga, ON
École:	King's Christian Collegiate
	This project studied the detoxification of Phorbol esters from Jatropha oil-Cake using Natural Corn Cob Ash (NCCA). Different samples were prepared and treated with NCCA. The samples were tested using an HPLC system to determine the amount of Phorbol esters removed. After treatment, one sample had 88% of Phorbol esters removed. The results proved more successful than any research that was previously done.

Prix	Valeur
Prix d'excellence - Senior - Médaille de bronze	300,00 \$
Commanditaire: Société de gestion des déchets nucléaires	
Bourse d'admission de l'Université d'Ottawa	1 000,00 \$
Médaillé de bronze, sénior ? Bourse d'admission de 1 000 \$	
Commanditaire: Université d'Ottawa	
Bourse d'études de Western University	1 000,00 \$
Médaillé de bronze - Bourse d'admission de 1 000 \$	
Commanditaire: Université Western	
Total	2 300,00 \$



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

