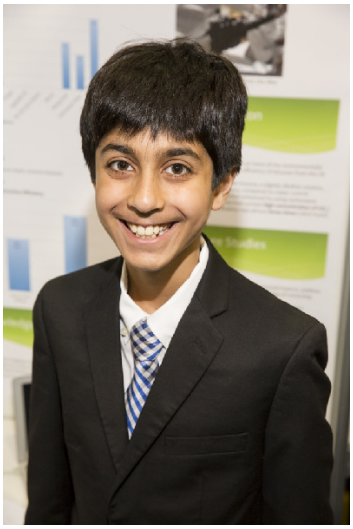
# CWSF 2015 - Fredericton, New Brunswick



## Kaamraan Islam

### Green Oil: Improving the Extraction Efficiency of Bitumen from the Oil Sands

**Challenge:** Energy
**Category:** Junior
**Region:** Frontenac, Lennox & Addington
**City:** Kingston, ON
**School:** King's Town School

**Abstract:** The Oil Sands is a mixture of sand, clay and dense bitumen. The purpose of this experiment is to increase the extraction efficiency of bitumen from Oil Sands using environmentally friendly mixtures. The Alka Seltzer mixture extracted 282% more bitumen compared to the current methodology. Adding carbonated substances to the extraction process can reduce the time, heat energy, and water required.

## Biography

My name is Kaamraan Islam and I am 12 years old. I was born and raised in Kingston, Ontario. I go to King's Town School. I have been competing in the Regional Science Fairs since grade 5 and I have always been passionate about science. This year I am fortunate to have the opportunity to compete at the National Science Fair. I love traveling with my family, all things Apple, creative games like Minecraft, and most importantly, spending time with my friends and family. I got my inspiration for this project from the news and financial programs. There has been a lot of talk about the oil sands and oil prices recently. I did some further research and I learned that the Canadian economy is highly dependant on the oil sands. I wanted to improve the extraction process of bitumen to help the Canadian economy and the environment. Some advice I would give to other students who are thinking about doing a project is to think outside the box. The best projects are always the new different ones. It's great to be different. You also have to be passionate about what you choose for the best results.

| Awards | Value |
|---|---|
| Excellence Award - Junior - Bronze Medal<br>Sponsor: Youth Science Canada | |
| Western University Scholarship<br>Bronze Medallist - $1000 Entrance Scholarship<br>Sponsor: Western University | $1 000 |
| Total | $1 000 |

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