

# CWSF 2013 - Lethbridge, Alberta



## Smruthi Ramesh, Karishini Ramamoorthi

### Prunus armeniaca: The Non-Toxic Shoreline Oil Spill Cleaner

**Challenge:** Environment

**Category:** Senior

**Region:** Peel

**City:** Mississauga, ON

**School:** Port Credit S.S.

**Abstract:** Our project tests to determine if the biodiesel derived from the Prunus armeniaca could formulate a more efficient bio-solvent than the bio-solvent produced using the Glycine max, Cocos nucifera or a blend of these three biodiesels. We concluded that the Prunus armeniaca and the Prunus armeniaca-Cocos nucifera biodiesel blend formulated a more effective bio-solvent than the methods that are currently employed.

#### Biographies

Smruthi - My name is Smruthi Ramesh and I attend Port Credit Secondary school and am part of the Scitech program. I enjoy reading and drawing and love to dance. In the future I hope to become a researcher in the field of biology. Participating in the Science Fair is really important to me. It has taught me a lot about the environmental issues concerning our world today such as shoreline oil spills which is the basis of our current project. I have really enjoyed the process of creating this project and enjoyed the satisfaction of completing it. My partner and I hope to further test our bio-diesel shoreline clean-up solution and develop it into a viable a...

Karishini - My name is Karishini Ramamoorthi, and I attend the Sci-Tech program at Port Credit Secondary School. I enjoy playing the violin, and dancing in my spare time. The whole science fair experience has been a great opportunity for me and I hope to continue again next year. Last year my partner and I focused on the production of apricot bio-diesel, and this year we wanted to find an application for it. We hope to further test our apricot bio-diesel on a larger scale model to develop our idea into a viable product. The process of developing the project has taught me to work hard, pursue my passion outside of school, and research into topics that are...

#### Awards

#### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	\$300
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$8 800</b>

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