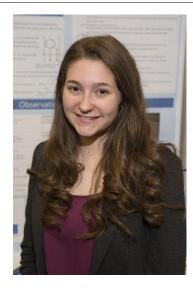




CWSF 2016 - Montreal, Quebec



Aoife Pucchio

Styrofoam - A Problem We Need to (dis)-Solve

Challenge: Innovation Category: Senior

Region: Thames Valley
City: London, ON
School: A.B. Lucas S.S.

Abstract: Expanded Polystyrene (EPS), or Styrofoam, takes up 30% of average

landfills. Currently, only 1% of EPS is recycled (Recycling Styrofoam, 2009). EPS dissolves in d-Limonene, an oil extracted from the rinds of citrus fruits. By developing a prototype process for municipalities involving on-site dissolving depots, EPS can be efficiently transported in solution to a

centralized facility for recycling into a highly reusable plastic.

Biography

My name is Aoife Pucchio and I am a grade 11 student at A. B. Lucas Secondary School. Ever since I was a child, I have had a passion for the environment, nature, and camping. I enjoy canoe tripping every summer, my longest being an 18-day trip! The idea for my project was inspired by my love for the environment and a desire to help solve the looming issue of climate change. My project ties together my passion for science with my interest in the environment. My other hobbies include playing the flute, violin, and piano, as well as being a member of my school's concert choir. I love swimming, reading good books, and travelling.

| Awards | Value |
|---|----------|
| The Manning Innovation Achievement Award - Senior | \$500 |
| Sponsor: Ernest C. Manning Awards Foundation | |
| The Manning Innovation Achievement Award | \$4 000 |
| and \$4000 Manning Young Canadian Innovation Award and also receive | |
| an additional \$3000 towards their post-secondary education. | |
| Sponsor: Ernest C. Manning Awards Foundation | |
| Excellence Award - Senior - Gold Medal | \$250 |
| Sponsor: Youth Science Canada | |
| Dalhousie University Faculty of Science Entrance Scholarship | \$5 000 |
| Senior Gold Medallist - \$5000 Entrance Scholarship | |
| Sponsor: Dalhousie University, Faculty of Science | |
| UBC Science (Vancouver) Entrance Award | \$4 000 |
| Senior Gold Medallist - \$4000 Entrance Scholarship | |
| Sponsor: The University of British Columbia (Vancouver) | |
| University of Manitoba Entrance Scholarship | \$5 000 |
| Senior Gold Medallist - \$5000 Entrance Scholarship | |
| Sponsor: University of Manitoba | |
| University of Ottawa Entrance Scholarship | \$4 000 |
| Senior Gold Medallist - \$4,000 Entrance Scholarship | |
| Sponsor: University of Ottawa | |
| Western University Scholarship | \$4 000 |
| Gold Medallist - \$4000 Entrance Scholarship | |
| Sponsor: Western University | |
| Total | \$26 750 |



