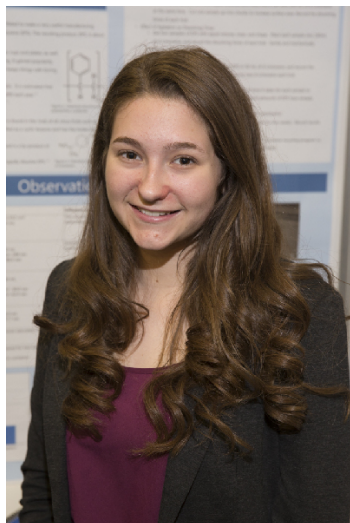


# CWSF 2016 - Montreal, Quebec



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