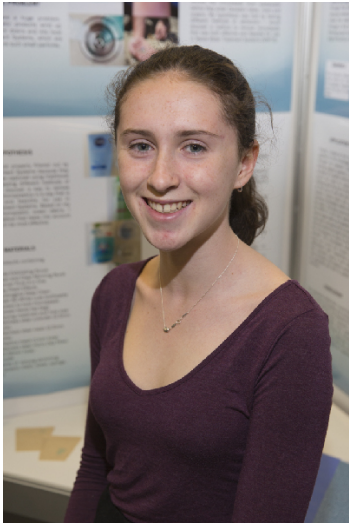


# CWSF 2016 - Montreal, Quebec



## Sophie Weider

### Plastic Waters

**Challenge:** Environment

**Category:** Junior

**Region:** Ottawa

**City:** Ottawa, ON

**School:** Turnbull School

**Abstract:** My project is on Plastic microbeads and their environmental impact. I extracted microbeads from consumer products and tested different methods of filtering and looked at how they could be used, in terms of effectiveness and feasibility, in wastewater treatment systems. I investigated how modifications could be made to wastewater treatment systems to keep Microbeads from entering the water ways and harming our environment.

### Biography

I am in grade 8 at Turnbull School in Ottawa, Canada. An active community member, I am a youth-for-youth ambassador for the Youth Services Bureau, and with my two sisters, cofounded the Sleep Out for Youth in support of the Ottawa youth homeless shelters. The Sleep Out is now in its fourth year and has raised almost \$500,000 to date. An avid visual artist, my "Plastic Waters" project originated from a large installation sculpture of a fish constructed of reclaimed plastic bags. I also sing vocals in a band and am competitive runner. My project was inspired by the Ottawa River Keeper's Microbead campaign to ban the bead. I will be writing an article on the need for environmental protection from microbeads in the River Keeper newsletter. I have already met with members of the Ministry of Environment, and will continue my involvement and advocacy until microbeads are officially recognized as a toxic substance and requirements for Waste Water Treatment Systems to adopt new measures to improve removal rates of micro plastics. When choosing a project, I recommend picking a subject that is important to you, where your findings may make a positive difference in the world.

### Awards

### Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000