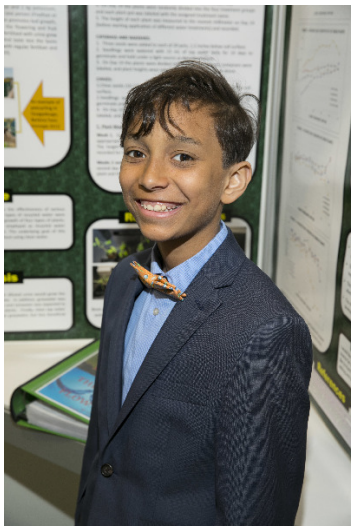
# ESPC 2017 - Regina (Saskatchewan)



## Connor McCourt

### Grow With the Flow

**Défi:** Environnement
**Catégorie:** Junior
**Région:** Bay Area
**Ville:** Oakville, ON
**École:** Oakville Christian School
**Sommaire:** Worldwide, clean water is a limited resource. Therefore the impact of various recycled waters on the growth of different plants was examined. Compared to greywater, rainwater and a tap water control, two of the four plant types examined grew best when watered with diluted urine. The macronutrients and pH level of diluted urine likely contributed to the success of plants grown with this water alternative.

## Biographie

My name is Connor McCourt and I am currently in grade seven at Oakville Christian School. I love hockey, soccer and sport related video games. This is my first time at the Canada Wide Science Fair and I hope it will be an amazing experience. Let me tell you why I'm here. Last summer I went to California and it was in their fourth year of a drought. They had many signs that talked about conserving clean water for drinking, cleaning and preparing food. A few weeks later I was reading a National Geographic book and it recommended avoiding the use clean water on plants. This inspired me to conduct an experiment to evaluate the impact of recycled water on plant growth. I used rainwater, grey water, and diluted urine as my recycled water sources. Interestingly, my experiment showed that diluted urine could be an alternative to clean tap water for some plants. For future research I would like to make a urine filtration and irrigation system to filter the urine and deliver directly to gardens and crops. My hope is that the results of this experiment can be used to benefit people who have limited access to clean water.

| Prix | Valeur |
|---|---|
| Prix d'excellence - Junior - Médaille de bronze<br>Commanditaire: Sciences jeunesse Canada | |
| Bourse d'études de Western University<br>Médaillé de bronze - Bourse d'admission de 1 000 $<br>Commanditaire: Université Western | 1 000,00 $ |
| Total | 1 000,00 $ |