

# CWSF 2009 - Winnipeg, Manitoba



## Madison Dobrovolskis, Hannah Morris-Patterson

### Even Cleaner Even Greener

**Division:** International / None

**Category:** Intermediate

**Region:** Bay Area

**City:** Ancaster, ON

**School:** Hillfield Strathallan College

**Abstract:** We examined the cleaning efficacy and energy efficiency of an Organic Homemade soap compared to Tide® Coldwater on 5 common stains with two fabric types. The cleaning power was assessed using reflectance colorimetry on 396 samples. Results showed the Organic Homemade soap was more effective and energy efficient. The experiment has implications for consumers seeking to be green and to encourage third world micro industries.

### Biographies

Madison - My name is Madison Dobrovolskis. I am a grade 9 student at Hillfield-Strathallan College. After winning my school science fair last year, and this year, this was my second year participating in the Bay Area Science and Engineering Fair, with my project EVEN CLEANER, EVEN GREENER. I am a fun and hardworking person, and I take my academics very seriously. I am currently on the HSC rowing team, and in the past years I have been on the swim team, and the soccer team, which I have won many awards for. I enjoy traveling, spinning, and pilates classes. My future goal is to become an ophthalmologist, or an orthodontist.

Hannah - My Name is Hannah Morris-Patterson, and I am a grade 9 student at Hillfield Strathallan College. I am currently a member of my school rowing team, and previously participated in volleyball, swimteam, and the soccer team. Last year, winning my school science fair took me to my first time at the Bay Area Science and Engineering Fair, and again this year with my project Even cleaner Even Greener.

### Awards

### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$300
<b>Total</b>	<b>\$1 300</b>