

# CWSF 2012 - Charlottetown, Prince Edward Island



## Aspen Lillywhite

### Arctic Offshore Drilling & Temperature Effects on Cleanup of Potential Oil Spill

**Challenge:** Environment

**Category:** Junior

**Region:** Chinook Country

**City:** Okotoks, AB

**School:** Red Deer Lake School

**Abstract:** The purpose of my study was to determine if human hair booms are effective in adsorbing oil from seawater at Arctic temperatures and thereby reduce the risk of environmental devastation caused by potential offshore drilling oil spills in the Arctic Ocean. Statistically significant data was obtained confirming that human hair booms provide an effective means of recovering oil from seawater at Arctic temperatures.

#### Biography

My name is Aspen Lillywhite. I was born, and reside in the Calgary area. I am in the seventh grade at Red Deer Lake School, Alberta and have achieved Honours with Distinction. My favourite subjects are Science and Social Studies. I am an active participant in the Building Hope Project, raising awareness and funds to create change in our world. We have successfully completed several projects in Ewaso Ng'iro, Kenya including the construction of a school. Outside of school my time is spent dancing taking formal classes in Ballet, Pointe, Jazz and Contemporary. I volunteer teaching younger students ballet and jazz. I have successfully completed my ISTD Vocational Intermediate Ballet Exam. I currently perform with a pre-professional dance company, Corps Bara Youth Dance Company. Some of my performances include Project Dance ? Toronto, A Time 4 Everything ? Vertigo Theatres, fundraising performances for local charities, and performances in schools and churches. Dance is a part of my future goals. Post-secondary plans are to become a Chemical Engineer. The inspiration of my project in part is attributed to living in Canada's oil-rich province and having a heightened interest in the oil industry and high regard for the environment we live in.

#### Awards

#### Value

Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$1 500
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Total	\$5 500