

## CWSF 2011 - Toronto, Ontario



### Kaelyn Gras, Andrea Isabelle De Ocampo

#### Novel Concepts to Decontaminating Oiled Birds

**Challenge:** Environment

**Category:** Intermediate

**Region:** Edmonton

**City:** Edmonton, AB, Edmonton , AB

**School:** Archbishop MacDonald H.S.

**Abstract:** The efficacy of three water soluble cleaning agents and a new solventless decontaminant for the removal of Alberta crude oils from bird feathers was established. A novel quantitative test has been innovated to determine feather hydrophobic property. While Dawn? is the current choice detergent in removing oils, when properly developed, Elastol? has the potential of becoming the next standard of excellence in treating oiled birds.

#### Biographies

Kaelyn - My name is Kaelyn Gras and I am in grade 10 with a full IB program at Archbishop MacDonald High School in Edmonton, Alberta. I really love birds and have a pet lovebird, named Merette, which was my inspiration for this project. As well as the science fair, I am in Ukrainian dance, play the flute in two concert bands, I am a balloon artist, I am the treasurer for the non-for-profit organization, the Catholic Girl's League, and am the leader of the church choir. I often volunteer with multiple organizations, in and out of school, and because of this; I won the prestigious "Heart of the Community" award at my school. My dream is to be a pe...

Andrea Isabelle - I am also involved in the fashion industry. On may 24, 2011, I placed first winning a \$500 scholarship to study at Marvel Design College, gift bags, and my own showcase at the WESTERN CANADA FASHION WEEK on September 22, 2011-2012. I just started to learn how to sew for a week in September and now in spring, I am making it big; being in the news, Edmonton Journal (twice). In the sciences, my friend and I made it on the EDMONTON JOURNAL, USA today, Vancouver SUN, and India times about our experiment to finding novel concepts to decontaminating oiled birds. In my spare time I design, shop, swim, and travel. For the future I hope to be the next ...

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Total	\$1 300