

## CWSF 2008 - Ottawa, Ontario



### Lauren Murdoch, Karlee LaBerge

#### Making Bricks from Mine Tailings

**Division:** Health Sciences / Environmental Innovation

**Category:** Intermediate

**Region:** Timmins

**City:** Kirkland Lake, ON

**School:** Kirkland Lake Collegiate & Vocational Institute

**Abstract:** Mine tailings are a waste byproduct of the gold mining process used throughout the world. Millions of tons of tailings are stored in unsightly ponds (often native lakes and wetlands) forming environmental wastelands. By combining tailings verified to be chemically inert with portland cement in varying ratios, we produced a molded brick strong enough to serve as a commercial or decorative product.

#### Biographies

Lauren - My name is Lauren Murdoch, I am fifteen years old, and a grade 9 student at Kirkland Lake District Composite School. In my school, I am involved with Science Club, Badminton, and I am involved with our school recycling program. After school, I enjoy working out. I have also been figure skating for twelve years, and I am a volunteer coach at our figure skating club. Science is my best and favorite subject at school. For two years in a row, I have gotten an award for the highest grade in my class in science. This year, I attended the Science Olympics in Timmins, Ontario. In my spare time, I enjoy spending time with friends and babysitting. I am...

Karlee - 3RD TRIP TO REGIONAL SCIENCE FAIR-YEAR ONE GOLD YEAR TWO SILVER-THIS YEAR GOLD CURRENTLY ON STUDENT SCHOOL COUNCIL GR.9 FIRST SEMESTER SCIENCE TEAM K.L.D.C.S ACTIVE SPORTS INCLUDE-GIRLS VOLLEYBALL CHAMPIONS GIRLS BASKETBALL- X COUNTRY RUNNING MEMBER INVOLVED IN 'HERO RUN' FOR CANCER AND THE KIRKLAND LAKE FESTIVALS COMMITTEE'S WINTER CARNIVAL CAREER PLANS INCLUDE-'MEDICAL LAB' LOVE FAMILY AND FRIENDS KARLEE LABERGE

#### Awards

#### Value

The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Environmental Innovation - Intermediate Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$700
Total	\$2 200