

## CWSF 2008 - Ottawa, Ontario



### Scott Cameron, Alan Stagg

#### Pykrete: the new concrete?

**Division:** International / None

**Category:** Junior

**Region:** Bay Area

**City:** Oakville, ON

**School:** W. H. Morden Public School

**Abstract:** This project studied pykrete, a frozen mixture of water and sawdust. Pykrete was first studied in World War II for use in a massive aircraft carrier. Strength, buoyancy, and melt times for pykrete were measured. In a drop test, a 10% sawdust-by-weight mixture was the strongest. Buoyancy tests were inconclusive. Mixtures with more sawdust by weight had slower melt times.

#### Biographies

Scott - My name is Scott Cameron. I live in Oakville, Ontario with my parents, my brother and my cat. I have attended W.H. Morden Public School since grade 5, after being identified as gifted in grade 4. I am now in grade 8. I play goalie on a hockey team, and enjoy scale modeling.

Alan - My name is Alan Joseph Stagg and I was born on April 25, 1994 in St. John's, Newfoundland. I was the second child of Kim and Parker Stagg, my older brother being Michael. I stayed in Newfoundland until 1999 when we left for Oakville, Ontario. We arrived at our new home just in time for a quick Christmas and busy New Year. I attended River Oaks Public School and Post's Corners Public School until grade 5 when I was accepted into the gifted program at W. H. Morden. I am currently finishing my final year at Morden and am preparing to attend the Accelerated Learning Program at White Oaks Secondary School. I now have a younger brother, who is ju...

#### Awards

#### Value

The University of Western Ontario Scholarship	\$2 000
Gold Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Gold Medal - Physical & Mathematical Sciences - Junior	\$1 500
Sponsor: Encana Corporation	
Total	\$3 500