

## CWSF 2005 - Vancouver, British Columbia



### Rebecca Green, Amanda Welsh

#### Latex Mixes for Concrete Fixes

**Division:** Engineering & Computing Sciences

**Category:** Junior

**Region:** Avon Maitland-Huron Perth

**City:** Dashwood, ON, Zurich, ON

**School:** St. Boniface Catholic School

**Abstract:** Because the most effective product currently available for repairing cracks in concrete is latex cement, we hypothesized we could create an equally strong and less costly alternative by mixing leftover latex paint with cement. Our results show that latex paint increases the compression strength of concrete in a concentration-dependent manner.

Awards	Value
CSSE Engineering Innovation Award - Junior Sponsor: Canadian Society for Senior Engineers	\$1 000
Suncor Energy Foundation "Shared Achievements" Awards - Junior Sponsor: Suncor Energy Foundation	\$500
Honourable Mention - Engineering - Junior Sponsor: Youth Science Foundation Canada	\$100
Total	\$1 600