



## CWSF 2005 - Vancouver, British Columbia



## **Gillian Gillies**

Dam Ice: The Frost Factor

**Division:** Engineering & Computing Sciences

Category: Intermediate

**Region:** Northwestern Ontario **City:** Thunder Bay, ON

School: Sir Winston Churchill Collegiate and Vocational In

Abstract: This experiment investigated why ice dams occur on some roofs during

winter and the diagnostic properties of observed frost melt patterns on the roofs of storey-and-a-half houses. Heat loss patterns were measured on a model roof proving that ice dams are most likely to form above the knee

wall.



