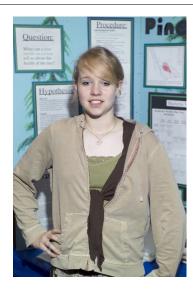




## CWSF 2006 - Saguenay, Québec



## Gillian Haugen-Koechl

## **Pine Beetle Blues**

**Division:** Engineering & Computing Sciences

Category: Junior

Region: Northern British Columbia

City: Charlie Lake, BC

**School:** Bert Bowes Jr Secondary

**Abstract:** Can pine needle decoction tell the health of the tree? Last year I learned

pine needle decoctions kill bacteria. This year I tested decoctions from pine exposed to mountain pine beetle. I collected samples of healthy, stressed and dead trees. I tested decoctions pH level and ability to fight bacteria.

Awards	Value
Pulp & Paper Technical Association of Canada Award	\$500
Sponsor: Pulp & Paper Technical Association of Canada	
Honourable Mention - Earth & Environmental Science - Junior	\$100
Sponsor: Petro-Canada	
Total	\$600



