

## CWSF 2010 - Peterborough, Ontario



### Chris Melchin

#### "Pine"-ing "Fir" Hydrocarbons

**Division:** Health Sciences

**Category:** Junior

**Region:** Strait

**City:** Antigonish, NS

**School:** St. Andrew Junior School

**Abstract:** I studied different methods of biomass conversion ? pyrolysis, gasification, and wood pellets ? and performed a test of chemical extraction of hydrocarbons. The chemical extraction was the most energy efficient, but had the lowest energy yield. The others used large amounts of energy, but produced a proportionately large amount. Apparently the amount of energy generated is proportional to what is used to get it.

#### Biography

Chris Melchin is a student in grade 8 at St. Andrew Junior School in Antigonish, Nova Scotia. Chris has a wide variety of interests including video games, badminton, curling, kayaking, and playing the bari and alto saxophones, guitar, and bass. He spends much of his extra-curricular time playing in 4 school bands. He has 3 older brothers.