

## CWSF 2006 - Saguenay, Québec



### Roland Troke Barriault

#### Superconductors: Resistance is Futile!

**Division:** International

**Category:** Intermediate

**Region:** Annapolis Valley

**City:** Kingston, NS

**School:** École Rose-des-Vents

**Abstract:** The effect of temperature on electrical resistance was tested. Electrical resistance was found to decrease with temperature in a linear fashion and become zero at a superconducting critical temperature. Electrical resistance is a result of atomic lattice vibrations and a material's resistivity is related to its number of free electrons.