

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.