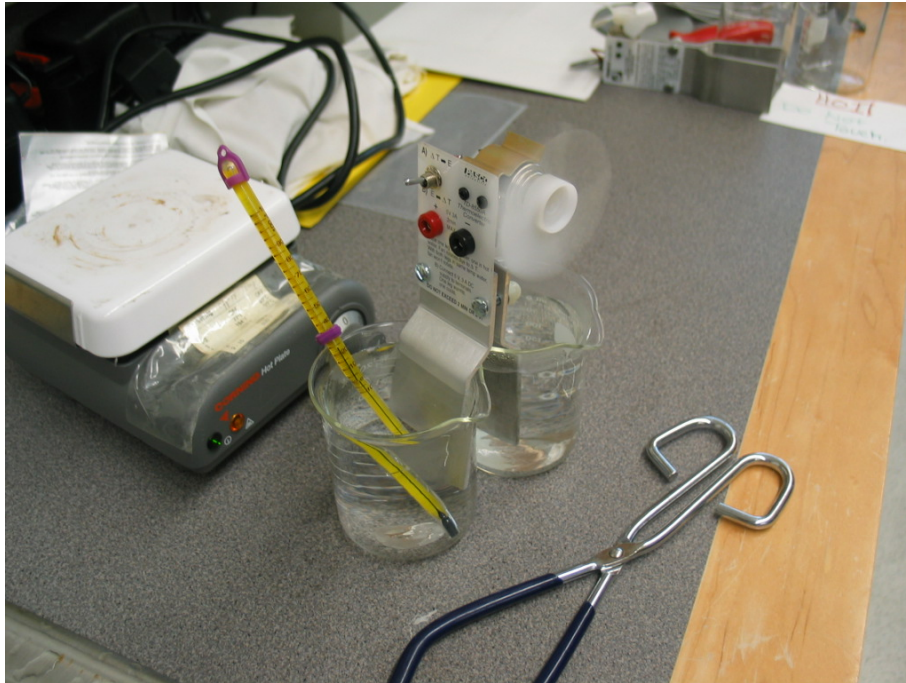


Thermoelectric Converter



Purpose: To demonstrate that thermoelectric effects can be used to power a small electric motor.

Location: room 136, P4; hot plate on shelf I5; beaker tong on I4

This device operates when the legs are placed in reservoirs with a temperature difference between them (Seebeck Effect). The simplest way to do this demo is to use cold (below 25 °C) tap water and hot (at least 60 °C) water (as shown).

It may take a few minutes for the aluminum legs to reach a large enough temperature difference, and the fan will need a push to get it started.

(The older unit requires liquid nitrogen and warm water in Styrofoam™ cups.)