COOL UNDER FIRE
Bet you can’t raise the temperature of ice water by heating it!

THE SETUP
For this wager, ice water is defined as water with ice in it. To begin, you will need a tray of ice cubes, a saucepan, a weather thermometer, a spoon, and some water. Put the ice cubes in the saucepan with five or six inches of water. Stir the mixture with the thermometer until the mercury stops moving. It should read 32° F or 0° C. Make sure that the bulb of the thermometer is completely submerged and that it is not touching the sides or bottom of the pot. Place the pan over a low flame for a minute. Turn off the stove and stir the ice water thoroughly. Again take a temperature reading, making sure the bulb is suspended in the liquid and not touching the pan. If the temperature has not been raised, heat the mixture again until the ice is almost melted. Stir and take another temperature reading. When the ice is melted, you are finished. The mixture is no longer ice water.

INSIDER INFORMATION
As long as there is ice in the water, the temperature will stay 32° F or 0° C. The heat you put into the pot, however, did not just disappear. All of the energy was used to melt the ice. Not a single bit went to warm the water. When the ice is gone, of course, the heat will produce a change in the temperature of the water.