

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Richard Xu	J0234
Project Title Thermal Piling Power	
Objectives/Goals Abstract	
The objective was to find out whether thermopiles coul temperature change, and number change.	d be made more effective through type change,
Thermopiles (Thermocouples Type K and Type E), sol	der/soldering iron, oven, voltage meter.
Results	
 The test resulted in harger humbers of thermocouples to more electricity than that of type K, but declined more electricity than type K, but electricity drop was higher. growth in electricity output, while the type E thermopil temperatures. This means that probably Type E is not a Conclusions/Discussion The project ended up differently than what was hypothwould grow with more thermocouples and temperature more heat. Both types of thermocouples showed signs of thermocouples showed signs of the type is not a signs of the types. 	as well. Type E produced almost 4 times more The Type K thermopile had a fairly straight e had a varying range in tests that involved higher is well suited to hot environments as Type K. esized. It was hypothesized that the electricity , because they would form a chain and pick up of decline instead of increase.
Summary Statement	
More heat/numbers means less electricity proportional	y for all types of thermocouples.
Ielp Received	
Father assisted in building thermopiles, Mother helped use of hot plate.	in building thermopiles. General Atomics allowed