CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Kaylyn M. Hedstrom	4
	31966
Project Title	
Electrostatic Power from Water	
Abstract	
Objectives/Goals The objective of my project was to determine how the natural electric charge pr can be used to generate static electricity.	esent h ordinary water
I constructed a Kelvin electrostatic generator to be used as my testing apparatus	Latested 4 different water
flow rates multiple times to determine if dropping the water at any of these rates electricity. By dropping the water, the friction against air changes its electric ch electrical charges to separate-they then can be used to generate static electricity.	would produce static arge. Inducing the
Results	11 4 1 1 4
The tests on 3 of the 4 flow rates produced static electricity, which was confirm the electrodes on the Kelvin electrostatic generator. The 4th and slowest flow ra spark. Checking with a digital multimeter confirmed the presence of a charge. U electrostatic generator demonstrated and confirmed my hypothesis.	ed by the spark between te didn't produce a visible Jsing the Kelvin
By using the Kelvin electrostatic generator I was able to achieve my objective a hypothesis. I have concluded that it is possible to generate static electricity from charge in ordinary water.	nd confirmed my the natural electric
\square	
Summary Statement Altering and separating the natural electric charge present in ordinary water with	h the use of a Kelvin
electrostatic generator to generate static electricity.	
Help Received	
Mother helped type. Father helped construct apparatus. Family assisted with tes	ting.