



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Colleen C. Cross	Project Number 22463
Project Title Hidden Power	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My goal was to build a generator (like Lord Kelvin's electrostatic generator) that runs on the power of falling water droplets, see if it worked, and see how long regeneration of the generator took.</p> <p>Methods/Materials An electrostatic generator was built by using 3 different sizes of caps (2 of each size), copper wire, Styrofoam, and clipheads. The generator was turned on and was grounded. While running, a light bulb was held to the generator to see if it would light. Also while running, regeneration times were tested.</p> <p>Results The electrostatic generator worked proving that a generator can be built that runs on the power of falling water droplets. 80% of the time the light bulb went on and produced light.</p> <p>Conclusions/Discussion Lord Kelvin first build his generator in the 1800's and many versions have been made since. With my generator, the length and power of the light is reflected on how much regeneration it had.</p>	
Summary Statement There is energy and electricity all around us and we can put this electricity to good use.	
Help Received Father helped explain properties of some materials; Science teacher helped by correcting errors in the first draft of report.	