



**CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY**

Name(s) Gary K. Suvagian	Project Number J0725
Project Title Kirlian Photography	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals Do extreme temperatures applied to a plant leaf affect the Kirlian photo of that plant leaf?</p> <p>Methods/Materials Five manzanita leaves, each 3 to 4 inches long were gathered. The first leaf was placed in the oven for 5 minutes, the second leaf was placed in the oven for 10 minutes, the third leaf was placed in the freezer for 5 minutes, the fourth leaf was placed in the freezer for 10 minutes and the fifth leaf was left in a room of average temperature. Each leaf's ohms were measured and their Kirlian photo was taken.</p> <p>Results On average, the leaf that was in the oven for 5 minutes had a corona of .17cm, while the leaf that was in the oven for 10 minutes had no corona. On average, the leaf that was in the freezer for 5 minutes had a corona of .25cm, while the leaf that was in the freezer for 10 minutes had a corona of .26cm. On average the control leaf had a corona of .24cm.</p> <p>Conclusions/Discussion My results support my hypothesis that extreme temperatures applied to a leaf do affect the Kirlian photo of that leaf. My results taught me that the Kirlian device can show if an organism has been exposed to extreme temperatures.</p>	
Summary Statement How exposing plant leaves to extreme temperatures will affect the Kirlian photo's of the leaves.	
Help Received Mother helped in dark room; Step-father helped build the Kirlian device; Science teacher helped review project	