



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Austin H. Lee	Project Number J1422
Project Title Do Electromagnetic Fields Harm Algae Cells?	
Abstract Objectives/Goals This experiment was conducted to see if there was any effect of electromagnetic fields on the growth and health of Chlamydomona. Methods/Materials In the experiment, two samples of Chlamydomona were thoroughly mixed with 1 mL of water in two test tubes. One of these was exposed to an electromagnetic field while the other wasn't. Each test tube had a pipe in it which led to a bubbler. This kept the algae dispersed. Every hour for five hours, a sample of algae was taken from each test tube and was observed with a microscope. This experiment was repeated 10 times. Results The activity of the algae that were exposed to the electromagnetic field lessened as time passed while the activity of the algae not exposed gradually went up. Conclusions/Discussion The results suggest that electromagnetic fields weaken algae and lower their growth.	
Summary Statement The goal of the experiment was to find out what effects electromagnetic fields had on the health of algae.	
Help Received Sue at Carnegie Institution gave algae(Chlamydomonas); Father helped set up things and observed with me.	