



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) David G. Burban	Project Number 22518
Project Title Determining Air Pollution	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My objective for this project was to find out if you can measure/detect air pollution by using a simple instrument, a laser and components you could get at radio shack.</p> <p>Methods/Materials I used a couple of resistors, a photosensor, a LM124 chip, and a Class II laser. After I build the device I turn the device on and record the "0 = " reading, then I turn the laser on and wait around 5-6 minutes until the reading is stable, and then I record the result.</p> <p>Results I found out that the device does detect changes in air pollution from one place to another. I have found out that Santa Monica and Pandora has the highest amount of air pollutants (A reading of 3.81). I also have found out that it is safer to breath in the Century City Shopping Center parking lot (A reading of 4.09) that in downtown (6th and Normandy)(A reading of 3.82)</p> <p>Conclusions/Discussion My conclusion is that you can use a simple device to measure air pollution. This could be used in a person's home that is allergic to pollution (e.g. asthma patient). It could be used in airports to determine if it is safe for a plane to land or go to the closest airport.</p>	
Summary Statement My project is about using a simple device to detect and measure air pollution.	
Help Received Grandpa helped with the schematics. Mom and grandma helped with the board.	