



**CALIFORNIA STATE SCIENCE FAIR  
2005 PROJECT SUMMARY**

<b>Name(s)</b> <b>Brent T. Scheneman</b>	<b>Project Number</b> <b>J1432</b>
<b>Project Title</b> <b>Electricity Instead of Spray</b>	
<b>Abstract</b> <b>Objectives/Goals</b> To see if electricity could be used as an ant repellent. Also to find out the lowest voltage that would repel an ant without injuring it. <b>Methods/Materials</b> The materials I used were a 12v-1.4 amp. battery, plain PC board, volt meter, wire, potentiometer(1m), wooden disk, dowel, circuit writer conductive ink, soldering iron, solder, battery, and 1/4in. wood. <b>Results</b> By raising the voltage up with the potentiometer, I found out the lowest voltage that would stop an ant from crossing over the two conductors was 11 V. <b>Conclusions/Discussion</b> In conclusion, if the 12 V battery was fully charged, and everything was working properly, I found out that the lowest voltage that stopped the ants from crossing over the two conductors was 11 V. If I were to perform more studies on the device, I would want to find a way to stop other insect pests.	
<b>Summary Statement</b> To find out if electricity can be used as an ant repellent.	
<b>Help Received</b> Father bought the materials needed; Teacher helped with design plans	