Name(s)  Brent T. Scheneman  

Project Number  J1432  

Project Title  
**Electricity Instead of Spray**  

**Objectives/Goals**  
To see if electricity could be used as an ant repellant. Also to find out the lowest voltage that would repel an ant without injuring it.  

**Methods/Materials**  
The materials I used were a 12v-1.4 amp. battery, plain PC board, voltmeter, wire, potentiometer (1m), wooden disk, dowel, circuit writer conductive ink, soldering iron, solder, battery, and 1/4in. wood.  

**Results**  
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.  

**Conclusions/Discussion**  
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.  

**Summary Statement**  
To find out if electricity can be used as an ant repellant.  

**Help Received**  
Father bought the materials needed; Teacher helped with design plans.