

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
Alexander J. Crawford-Kuhrts	S1503
	01303
Project Title	
Testing Tesla	
Abstract	
Objectives/Goals	· ·
Origanally my objective was to discover the difference in how electric vacuum. However, I have expanded my objective after the Mendocin how electricity will flow in other atmospheres rather than just open a objective is to discover how electricity will flow through different att empty vacuum, one filled with helium, and one filled with argon.	The flows in open air and in a to County Science Fair in order to test ir and inside a vacuum. My current mospheres including: open air, an
Tesla coil; 4 6-volt batteries (lantern batteries); Solid core hookup wi connecters; 12-volt relay switch with soldering connecters; Wells 12 Soldering wire; Soldering tools; Alligator clips; Mounting board; Va clear plastic tube; Vacuum pump; Copper tubing; Various sealing va	ire; Knife switch with screw volt automotive ignition coil; cuum tube; 6 in long by 3 in diameter lves; Argon; Helium.
Results Electricity changes color in different atmospheres, and flows much fa open air. Results for how electricity flows in helium and argon are st the State Science Foir	arther in a vacuum than it does in ill pending and will be availible by
Conclusions/Discussion	
I concluded that electricity flows much farther in a vacuum than in op hypothesis)due to the lack of molecules that restrict electric flow. In molecules, they restrict the flow of electricity, thus electricity cannot competition, judges recomended that various gases should also be tes decided to test helium and argon because they are more available.	pen air (which disproved my open air there are so many more flow as far. At the county sted in the vacuum chamber, so I
Summary Statement	
Using a tesla coil to test electrial flow in open air, in an empty vacut Helium & Argon gases.	am chamber, and one filled with
Help Received	

Paul Gilbert - Biology teacher, Mother & friend Karen Soberanis helped with board design and layout, Don Sinclair helped with electrial, vacuum chamber and gases.