



**CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY**

Name(s) Garrett J. Thompson	Project Number S1521
Project Title The Bigger They Are, the Higher They Fly: How Mass & Size Are Directly Related to Thrust in a Positively Charged Ion Fie	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To determine if the current Internet "antigravity" technology craze, as exemplified by a device known as the "lifter" is in fact an unexplained antigravitational force or another known electronic force.</p> <p>Methods/Materials Xxtremely lightweight airframes of varying sizes was constuctured out of balsa wood and aluminum foil. Construction was designed, according to specifications available on the Internet, to create lift through corona discharge in an ion field (known as the Bifield-Brown Effect). The airframe was then hooked up to a high-voltage, low amperage power source. The thrust of the craft was measured with payloads of different masses, and compared with the thrust predicted by mathematical models.</p> <p>Results Larger airframes could lift more mass, a result that was consistent with the thrust predicted by "ion breeze."</p> <p>Conclusions/Discussion The observed thrust couldl be accounted for by known electrical phenomena, and are not evidence of a previously unknown antigravitational effect.</p>	
Summary Statement To explore the physical and electronic principles behind so-called "anti-gravity" devices.	
Help Received Dad helped print color pictures, mom helped design layout. Friend of dad's supervised wiring of high-voltgace components.	