



**CALIFORNIA STATE SCIENCE FAIR  
2003 PROJECT SUMMARY**

<b>Name(s)</b> Veha Vaene	<b>Project Number</b> <b>S0613</b>
<b>Project Title</b> <b>Down to Earth</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The purpose of the project is twofold: (1) to determine the affect of object size on crater and ray size and (2) to determine the affect of the altitude an object is dropped on crater and ray size. Marbles are used to simulate meteors from space hitting the Earth. <b>Methods/Materials</b> The materials used in the project include marbles, soil, balconey, meter stick, and ladder. Marbles of different sizez were dropped from different altitudes. The crater sizes and ray sizes were measured using the meter stick. <b>Results</b> Small marbles tended to leave smaller craters. Larger marbles left larger craters. As the height of the drops increased, the craters increased. <b>Conclusions/Discussion</b> The greater the size of the object hitting the soil, the greater the size of the crater. Similarly, the higher the altitude of the drop, the larger the crater.	
<b>Summary Statement</b> The project simulates meteors hitting the Earth creating craters and rays.	
<b>Help Received</b>	