



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> <b>Justine M. Chaney</b>	<b>Project Number</b>  22471
<b>Project Title</b> <b>Using Photometry to Measure Vesta's Rotation</b>	
<b>Objectives/Goals</b> The objective of this project was to see if the rotational period of Vesta can be determined by using photometry. <b>Methods/Materials</b> The method used was photometry, and the materials were: <ul style="list-style-type: none"><li>- 14" telescope at Mt. Wilson</li><li>- CCD Soft (computer application)</li><li>- TheSky Astronomy software</li><li>- Microsoft Excel</li></ul> <b>Results</b> The project was successful; magnitudes were obtained and graphed, a light curve was made, and the rotational period was determined. <b>Conclusions/Discussion</b> The project was successful, but there were problems along the way, such as software problems. If I were to take this project further, I would try to obtain a full rotational period; my results only equal about half of one because of limited access to the Mt. Wilson telescope.	
<b>Summary Statement</b> Testing whether or not Vesta's rotational period can be determined using photometry.	
<b>Help Received</b> My science advisor Joe Wise showed me how to use the software, how to do photometry, and drove me to Mt. Wilson. He allowed me to access the computers at New Roads School. Barrett Duff, the science advisor to Telescopes In Education (T.I.E.), operated the	