



**CALIFORNIA STATE SCIENCE FAIR  
2005 PROJECT SUMMARY**

<b>Name(s)</b> Chase D. Hagen	<b>Project Number</b> <b>J1807</b>
<b>Project Title</b> <b>Optimum Foundation Design for Model Houses Undergoing an Earthquake</b>	
<b>Abstract</b> <b>Objectives/Goals</b> Find what type of house foundation:rubber, coil, or cement will absorbe the shock givin off by an earthquake and survive in the best strucutural condition. <b>Methods/Materials</b> Earthquake Simulator from company Pitsco that follows the Rictor scale . 4 model houses,4 foundations, power tools, nails, ect. <b>Results</b> Rubber foundation absorbed earthquake shock and remained in perfect structural condition. <b>Conclusions/Discussion</b> Earthquake simulator has flaws at the higher settings.	
<b>Summary Statement</b> Testing model houses with different foundations on an earthquake simulator	
<b>Help Received</b> Dad helped use power tools and edit video.	