

CALIFORNIA STATE SCIENCE FAIR 2004 PROJECT SUMMARY

Name(s) Mark A. Webb		Project Number S0219
Project Title Increasing the Defle	ection of Concrete	
Objectives/Goals	Abstract	
strengthening the crystaline str fractions of hydrogen than war bonding. Methods/Materials portland cement, fine sand, 28 wrap, 1000ml graduated cylind deflection testing base, measur Results Addition of a 3.5% concentrat the amount of deflection by at Conclusions/Discussion It can be concluded that the ad only specific concentrations an concretes deflective properties is due to catalytic processes of the strength of the concrete sig securing key structures during	ucture of concrete through the addition ter. This is because concrete gets its st % ammonium hydroxide, denatured al der, triple beam balance, laser, respera ring board, gogles, concrete molds, no ion of Ammonium hydroxide solution least 30% compared to the control (no idition of ammonium hydroxide solution that certain concentrations of ammo- s. It cannot be concluded however whe r the concentration of hydrogen in the s gnificantly. Increasing the flexibility of an earthquake.	 of chemicals with higher molar trength from silicon and hydrogen cohol, hexane, water, wax, plastic tor, gloves, power supply, improvised tebook. to a dry concrete mixture increased ormal concrete w/water). on increases the strength of concrete a onia can actually decrease the ether or not this increase in deflection system. Nonpolar solvents decrease of concrete is very important in
Summary Statement This project focuses on increa	sing the deflective strength of concrete	2.
Help Received		

I had my mentor Stephen Hubbard supervise my use of the chemicals and wood crafting machinery.