

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Lucrezia Donnini; Katharina Seethaler	SU001
	30307
Project Title	
Sound and Light	
Abstract	
Objectives/Goals	
The goal of our experiment was to prove that light can transmit sound over lon what color panel and what loger is the best for this experiment.	g distances and to verify
Methods/Materials	
Followed materials are needed: one or more lasers, one or more solar panels, at	n oscilloscope, a funtion
generator, a sound source, an amplified speaker, an induction coil, a power supply, a microphone and	
alligator clips. A transmitter consisting of a laser and a sound source and a rece	eiver consisting of an
Results	
The results were that the sound that came out from the amplified speaker was a	lway the same as we put in
to the transmitter.	
Conclusions/Discussion When the laser hear is turned on surrent flows through the soil and the laser is	a lit The "sound vibrations"
recorded on the tape are transformed into electrical vibrations. These fluctuation	is in the sound vibrations
laser beam are picked up by the solar cell and are turned into electrical pulses,	which are amplified by the
speaker or tape recorder and turned back into sound.	
Summary Statement	
The purpose of this project is to prove that light can transmit sound through lor	ng distances and to measure
what solar panel and what laser are the best for this experiment.	
Help Received	