

CALIFORNIA STATE SCIENCE FAIR 2012 PROJECT SUMMARY

Name(s)	Project Number
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	S1119
Project Title	
Oily Polymers	
Abstract	
Objectives/Goals	1 .1 .1
The goal of this experiment is to find a way to separate oil from cross-linked po environmentally safe.	lymers that is more
Methods/Materials	
I used oil that is similar to light crude oil and saturated the cross-linked polymers. I then used several	
different solvents, such as: denatured alcohol, acetone, paint thinner, lacquer thi the oil from the cross-linked polymers.	nner, etc, to try to separate
Results	
After using the solvents, I found that denatured alcohol is the one solvent that separated the oil from the cross-linked polymer. Also some of the other solvents were hydrocarbons, so that is why they did not	
separate the oil from the cross-linked polymers.	lat is why they did not
Conclusions/Discussion	
When cross-linked polymers are used to clean up an oil spill in a body of water to burn the cross-linked polymers along with the oil. My conclusion is that dena	
to separate oil from cross-linked polymers. This oil can be recycled and you can	
alcohol and use it again. This is more environmentally safe than the previous me	ethod.
Summary Statement	
I am finding a way to separate oil from cross-linked polymers that is more environmentally safe.	
Help Received	
Mrs. Reed help with lab	