

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)		Project Number
Gavin S. Manley		
		38497
Project Title		
Paper Batteries: A C	lean Alternative	
Ohisetines/Cash	Abstract	
 Objectives/Goals When I set out to work on my separe battery that was ultra thin my research, I knew this was an batteries are better for the environ batteries all use a chemical build. This means that the paper batter chemical build-up that (when ta environment. Methods/Materials The result was found by testing more, my paper battery or the A my hypothesis. My final step was create a working papery battery. Results I was able to create a working p Conclusions/Discussion My results were supported in m than the paper battery, unless ca that future research and testing, nanotube ink would increase the carbon nanotube, even though the multiwalled carbon (nano=1/100 research, I would like to test this Summary Statement The purpose my science researce alternative to the Ax battery, with the paper battery, with the paper battery or the state of the paper battery.	cience experiment, I was very interest, and that such a tiny piece of paper of a mazing idea because it was also growth and the produce electricity. The paper is are recyclable and to not create the amount of voltage that the batter A battery. My procedure was to first as to record data. Aftermuch research apery battery. Unfortunately, it was a hypothesis. I hypothesized that the paper battery because hey are both great conductors. Carbo 0000000 m. nanoube ink will further voltage of the paper battery because hey are both great conductors. Carbo 0000000 m. nanoube=4/10000000 m. nanoube=4/100000000 m. nanoube=4/100000000 m. nanoube=4/100000000 m. nanoube=4/100000000 m. nanoube=4/1000000000000000000000000000000000000	ated in the itea that I could make a suble produce voltage. As I continued a for the environment. These paper ample. A battery). The modern hatteries use no chemicals at all, wayse. The A batteries all use a showe eas that is very bad for the another easily and the set is very bad for the another easily and the set is very bad for the and many test runs, I was able to another another the counter.# It is easy to see to benefit this category. Carbon graphite releases voltage slower than nanotube ink is made of conductive, 0 m) nanotubes. For my future the ink.