



**CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY**

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| Name(s) Amanda S. Dawley | Project Number J0608 |
| Project Title Can We Stop Corrosion? | |
| <div><div>Objectives/Goals The goal of my project was to stop or slow the rate of corrosion in a saltwater electrolyte using either magnets or petroleum jelly.</div><div>Methods/Materials AC/DC transformer multimeter digital scale metal test strips magnets petroleum jelly alligator clips & wire camera</div><div>Results All test results showed corrosion. Each test was weighed before and after to determine change over 20 hour period. The control test and magnet test lost about the same amount of metal. The petroleum jelly test lost less metal than other tests.</div><div>Conclusions/Discussion Magnets had no effect on the rate of corrosion as compared to the control test. The petroleum jelly prevented corrosion but failed to stick to the metal test strips.</div></div> | |
| Summary Statement My project attempts to stop or slow corrosion in a saltwater or marine environment. | |
| Help Received My dad taught me to use AC/DC transformer from train set, multimeter, Microsoft Excel tables and digital scale; My grandfather suggested petroleum jelly as method to stop corrosion. | |