

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) **Project Number** Mari E. Ziegler 38001 **Project Title Biomimicry House Abstract Objectives/Goals** The objective of my project is to implement the systems that Cathedral Termite created to keep their mounds at a consistent temperature into sustainable housing. Methods/Materials I used a thermometer, model house with a central chimpey, and a model that circulated air, and recorded the model's temperature over days. Results The temperatures I took, comparing the outside temperature against the temperature, showed that inside my house, the temperature range was smaller than the outside world. **Conclusions/Discussion** The temperatures of my model showed that, with minimal energy used, we can keep a house at a consistent temperature. I have concluded that these plans could be used by builders of all types. **Summary Statement** t would stay at a consistent temperature using minimal energy inspired by the Athedral Termite Mounds. principles used in **Help Received** My science teacher, Mrs. Morehouse, introduced me to bioimicry. My parents supported me when I hot frusturated, and were my sounding board for ideas.