

## CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) **Project Number** David W. Frank 225<u>5</u>7 **Project Title** The Fading of Prints **Abstract Objectives/Goals** My Project was to determine what type of color printer technology was most re Methods/Materials Six color bars (red, yellow, blue, green, magenta, cyan) were printed out of the three types of printers (Laser, Piezoelectric and Thermal) on to acid-free paper. Alightbox constructed and two prints from each type of printer was faded for 3 days. with UV lamps wast a control sample, three additional prints were stored in the dark for 39 days. The prints colors were measured by a paint color analyzer at the beginning and end of the experiment. **Results** The laser printer sample faded least, followed closely by the piezeelectric. The thermal printer sample faded very quickly. **Conclusions/Discussion** My conclusion is that there is a significant difference in the fading ualities between the tested printer technologies. **Summary Statement** ted differences in how well prints from three color printer technologies resisted exposed to ultra-violet light. fading when Help Received My project demonstrated differences in how well prints from three color printer technologies resisted fading when exposed to ultra-violet light.