

CALIFORNIA STATE SCIENCE FAIR 2003 PROJECT SUMMARY

Name(s)

Craig Harter; Devin Head

Project Number

S0207

Project Title

Can We Recognize Patterns in Steam by Cross Sectioning?

Abstract

Objectives/Goals

The objective of our project is to determine if we can recognize patterns in steam by cross sectioning.

Methods/Materials

The materials and methods used are, aquiring a laser, attatching 2"x2" mirrors around the circumfrance of a fan motor with approximatley a 5" diameter. Display a propane stove on a platform even with the motor. Heat a pot of water until it steams and reflect the laser off the motor/mirrors back through the steam to create plains.

Results

We found that the steam expanded similar to a mushroom cloud with layers swirling outward. The laser projected plains making the steam visible.

Conclusions/Discussion

In conclusion, the differentiating angles of the mirrors as the motor/mirror rotated projected plains in the steam by cross sectioning.

Summary Statement

In our project we took a laser and reflectedit off of rotaing mirrors to record if we could create plains in steam by cross sectioning.

Help Received

We would like to acknowledge our parents for driving us to department stores and helping us to assemble the project.