



California Science Center
CALIFORNIA STATE SCIENCE FAIR
 2001 PROJECT SUMMARY

Your Name (List all student names if multiple authors.)

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Science Fair Use Only

S0501

Project Title (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9)

The Greenhouse Effect: How Does Carbon Dioxide Affect Our Environment?

Division

S Junior (6-8) S Senior (9-12)

Preferred Category (See page 5 for descriptions.)

5 - Earth Sciences/ Planetary Sciences/ Physical Environments

Abstract (Include Objective, Methods, Results, Conclusion. See samples on page 14.)

Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges.

Most people have heard about the greenhouse effect and global warming in the news recently, and we did our experiment to demonstrate these two procedures on a smaller scale. We created two, miniature enclosed environments, labeled #1 and #2, and used dry ice to represent carbon dioxide emissions. We placed 3 grams of dry ice in #1 five days a week for four weeks. We also took dirt samples from both environments at the beginning, middle, and end of our project to streak onto agar petri dishes in order to observe bacterial colonies. From our overall results, we found that #2(not exposed to added carbon dioxide) was dramatically healthier and lusher than #1 (exposed to added carbon dioxide). The plants were fuller and greener in #2. We also took the temperatures from both environments each day and found that the overall temperature in Environment #1 was significantly higher than #2. We concluded that excess carbon dioxide in the atmosphere indeed does have an effect on its surrounding environment.

Summary Statement (In one sentence, state what your project is about.)

Our project is about how added carbon dioxide affects its surrounding environment, including visual and temperate effects.

Help Received in Doing Project (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4.

Mrs. Miller and Dr. Sjoblom were our project advisors; Sam Hwang helped open our environments; Mr. Scott donated a wooden plank;