



Colorado Science and Engineering Fair

2025 Team Project Abstract Form

Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.

Title of Project: the Lake Nyos Tragedy: What Caused it?

Team Leader's Name: Layna Snyder

Team Member 1: Caroline Prieto

Team Member 2:

School and City: Brush High School, Brush

Sponsor's Name: Erik Stone

Category: Chemistry

Division: Senior (grades 9 - 12)

Abstract (250 words or less):

This experiment is based on Lake Nyos, a lake in Central Africa which released a grand amount of carbon dioxide, suffocating many people. Due to the solubility in cold water, the carbon dioxide which was released by the limnic rock was retained and later released due to agitation and the change of temperature. To test out why this happened, three beakers were tested for disruption, temperature change and disruption, and one as a control to see which would release the most carbon dioxide. The hypothesis was correct in predicting that the most gas release would come from the agitation and temperature change beaker, then the agitation beaker, then lastly the control. This proves that the Lake Nyos Tragedy was caused by a disruption causing a temperature change.

We hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. We also attest that the above properly reflects our own work.

Team Leader's Signature: _____

Date: _____

Team Member 1's Signature: _____

Date: _____

Team Member 2's Signature: _____

Date: _____

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with your Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**