

Names: Mike Amento, Scott
Leone Period: 2
Time Delayed Diet Coke and
Mentos Eruption By
Mike Amento and Scott Leone

Introduction: We report here the first time delayed Mentos eruption. This practical device allows the scientist performing this experiment to get clear out of the way of the eruption, offering practical and safety advantage

Experiment: This technique is based on lighting a fuse to run up to the top of the Coke bottle. It was brilliant. The fuse was a long piece of string tightly holding the mentos at the top of the bottle. When we lit the fuse, it took about 10 seconds to burn through the string and break it apart. As the fuse broke, its tight grip on the mentos gave way and they were released into the Coke, thus causing the delayed reaction of the experiment. We were delighted to discover as well that the time delay had no effect on the size of the fountain we were able to form. Each fountain was consistently 6-8 feet tall, and displaced the same amount of Coke.

Conclusion: In this experiment we used a flame as a remote device for a mentos eruption. The idea was very successful, and we were able to create a delayed mentos eruption. Our idea was that we use a piece of string as a fuse. We tied the string to the top of the coke bottle and the other end was taped down to the table. We had the mentos hanging off the end of the string, which meant that when the string dropped the mentos would fall into the coke. Then it was as simple as just lighting a candle and placing it close enough to the string so that it would burn it. We came out with times of 15 seconds, 8 seconds, and 10 seconds. This gives us an average time of 11 seconds. It may seem short but it is actually a very good amount of time to get far enough away from the eruption so that you won't get soda on you. This experiment was a success. Really the only things that we could have changed were the kind of string used, for more variability.

References:

1. We got this great idea from Paul Mulligan and Jared Searles' experiment. They also tried to create a remote for a mentos eruption.
"Creation of a remote controlled Mentos Eruption"
www.Stevespangler.com