

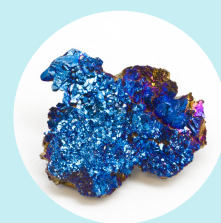
# Chemistry Club

We have all the solutions.



## Today's Element:

**Cobalt**, discovered in 1739, is an essential trace element, and forms part of vitamin B12's active site. The amount we need is very small, and the body contains only about 1 milligram. These salts can be given to certain animals in small doses to correct mineral deficiencies; however, large doses cobalt is carcinogenic.



## Cobalt's Isotopes

The most stable cobalt radioisotope is Co-60, which has a half-life of more than 5.2 years. Most of the other radioisotopes of cobalt have half-lives of less than one second.

## Steps to Joining Chemistry Club:

1. Attain a chemistry club application. This can be attained in the Science Learning Center (LS 122) or the Chemistry Club (CHEM 223).
2. Complete the form, being sure to include your full name, PID, a good phone number and email address, and activities you would be interested in participating in.
3. You can turn the form in to the Chemistry Club Room (CHEM 223), Dr. David Dillon, or a Chemistry Club officer at any time.

1

### DO I HAVE TO BE A CHEM MAJOR?

All majors are welcome! We are always looking for members that can expand our club further than the Chemistry Building!

2

### WHAT IF I'M NOT GOOD AT CHEMISTRY?

Our club offers several resources guaranteed to help you succeed in chemistry. If you are not looking to learn chemistry, we aren't asking you to!

3

### I DON'T HAVE TIME...

We totally understand! There is no required time commitment to be in chemistry club. We are here to help you achieve your goals – no obligations.

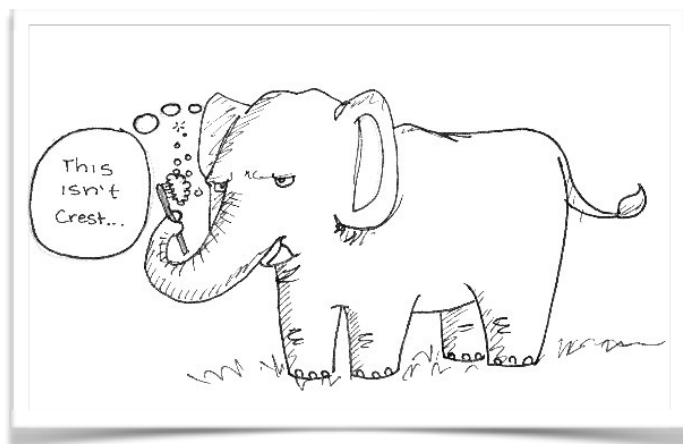
## This Week's Meeting

### Upcoming Events

At this week's meeting, ChemClub President — Nich Androes discussed several upcoming events.

On September 20th, at 7:30 A.M., Kaitlin Diodosio, Sarah Lira, and Devin Trujillo will be participating in a high school outreach demonstration at East High School. Here, the group will be presenting the [Elephant Toothpaste](#) (1:14) experiment using hydrogen peroxide ( $\text{H}_2\text{O}_2$ ), sodium iodide ( $\text{NaI}$ ) and soap. The secret ingredient is actually sodium iodide, which acts as a catalyst to the decomposition of hydrogen peroxide. Oxygen-filled soap bubbles quickly erupt from the cylinder, and as the reaction takes place, steam rises from the erupting foam. A mock demonstration of this experiment will occur tomorrow (Tuesday, September 18) around 4:00 P.M.; feel free to contact Sarah and Devin for more information regarding this.

Next Thursday, ChemClub will be taking a tour of the Waste Water Treatment Plant, September



27th from 8:30 A.M. to 11:00 A.M.; please contact Nich if you are interested in attending.

Lastly, Dr. Dillon is awaiting information regarding the Holcim Cement Plant located near Florence, CO. If you are interested in attending, please respond to this newsletter indicating your interest, as well which days of the week and times you are the most available.

Additional events include: Fun Fridays located at the Robert Hoag Rawlings Public Library, Chem Day, high school tutoring, the Mollie Kathleen Gold Mine, the Victor Gold Pit, Westcliffe's silver mines, the Denver Museum of Nature and Science and UTC Aerospace.

### IMPORTANT DATES

East High School Engagement Activity: September 20th at 7:30 A.M.

Waste Water Treatment Plant (Pueblo, CO): September 27th at 8:30 A.M.  
ACS Program in a Box: October 23rd at 5:30 P.M.

Chem Day: Thursday, October 25th from 9:00 A.M. to 12:00 P.M.

High School Tutoring: Every Friday from 1:00 P.M. to 3:00 P.M.

Fun Fridays (Rawling Library): 9:00 A.M. to 4:00 P.M.



## Attendance

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Nicholas Androes — President

Keenan Wyatt — Vice President

Kaitlin Diodosio — Secretary/Treasurer

Sarah Lira — Member at Large

Brittany Mullen

Carisa Medina

Mikelah Susuki

Kelly Sheehan

Alejandro Otero

Katie Richardson

Johnathan Hammon

Devin Trujillo

Katie Richardson

Dr. David Dillon — Sponsor

## Sign Up Sheets

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[Wastewater Treatment Plant](#)

[Holcim Cement Plant](#)

[Friday Tutoring](#)

[Halloween Haunted House](#)

Kaitlin Diodosio, Mikelah Susuki, Keenan Wyatt, Sean Love, Devin Trujillo, Nich Androes

[Chem Day](#)

Nich Androes, Devin Trujillo, Sean Love, Keenan Wyatt, Katie Richardson, Brittany Mullen, Sarah Lira, Kaitlin Diodosio