



KU Chem. Club

First Spring Meeting: 2/05/12

Roderick Black: Faculty Advisor

Carl Appelman: President
 Sonny Tallavajhala: Vice-President
 Lianna Dang: Secretary
 Sid Schrahl: Co-Fundraiser
 Carley Trentman: Co-Fundraiser
 Hannah Ceule: Treasurer



 Like us on Facebook!

UPCOMING EVENTS!

- Demonstration at Hillcrest Elementary
 - February 6th
- Judging and EXPO at South West Middle School
 - February 8th and 9th
- Liquid Nitrogen Ice Cream Demo at BSNF
 - February 15th
- **2013 Engineering Expo!**
 - February 21-23rd
 - (Setup Night: Wed. Feb. 20th)

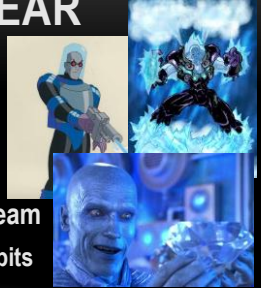


WHAT IS THE ENGINEERING EXPO?

- Get elementary thru high school students interested in engineering
- History of Chem. Club involvement
 - Demo show in small lecture hall
 - Liquid nitrogen ice cream
 - Working with AIChE (chemical engineers) with a joint room

THIS YEAR

- Theme: Mr. Freeze
- Spahr Library café
- Homemade Root Beer
- Liquid Nitrogen Ice Cream
 - Related hands-on exhibits
- Send ideas to chemclub@ku.edu



WHAT TO DO RIGHT NOW!

- Look at your calendar (Feb 20-23)
 - Wednesday 5:30pm to finish
 - setup & decorating area
 - Thursday, Friday, Saturday (8:30am-3:30pm)
 - Interact with students
 - Thursday – Middle Schools
 - Friday – Elementary & High Schools
 - Saturday 9-noon – Lawrence community
 - Free (cool) t-shirts are involved!
- Exhibits related to root beer & ice cream
- Spread the word to your hometown schools

SO YOUR INTERESTED?

- AND you know your available:
 - Register online with an officer at the end of the meeting
- AND you don't quite have your schedule worked out:
 - Email chemclub@ku.edu and ask for the Engineering EXPO volunteer registration link

MRI GLOBAL

- Not-for-Profit Organization
- Performing Contract Research in the Following Areas:

Agriculture & Food Safety



Life Sciences



National Security



Transportation



Environment



Energy




Tour Guide: Dr. Dan Kuchynka

More info: <http://www.mriglobal.com>


DETAILS FOR MRI GLOBAL TOUR

- Date: Monday March 18th
- Arrival Time: 1:00pm
- Tour Length: 2-3hr (additional ~1 hour travel time each way)
- Address: 425 Volker Boulevard, Kansas City, MO
- Limit: First 20 people! (multiple visits)






- Tour the Oldest Brewery in Kansas!
- Meeting includes tour of facilities
- If you're anticipating any post-meeting sampling, you NEED a designated driver!!!



FREE STATE BREWING CO. DETAILS:

- Date: Friday March 8th
- Arrival Time: 3:30 PM
- Tour Length: One Hour and Thirty Minutes
- Address: 636 Massachusetts St, Lawrence, KS 66044
- Limit: TBD, Priority will be given to those who sign up!



CHEM. CLUB AVENGER SHIRT:

Front:

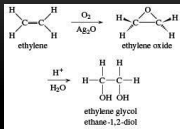
KU CHEMISTRY CLUB

CHEMISTRY IS



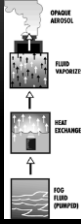
Back:

SUPER




ethylene $\xrightarrow[\text{Ag}_2\text{O}]{\text{O}_2}$ ethylene oxide

$\xrightarrow[\text{H}_2\text{O}]{\text{H}^+}$ ethylene glycol (ethane-1,2-diol)



- Glycols and H₂O atomize under heat as fluid is pumped into the heat exchanger
- After "flashing" the gas rapidly expands and is pushed forward through the nozzle.

- Liquid Nitrogen:
 - -321° Fahrenheit
 - -196° Celsius
- Water in the air freezes, causing *Smokiness*



MEETING RECAP:

- Talk to **Lianna** to register for the **Engineering Expo**
- Talk to **Sonny** to order your **Chemistry Club Shirt**
- Talk to **Carl** about signing up for **MRI Global & Free State Brewery Tours**
- Please ask any officer if you would like a Lab Notebook for \$15
- Email chemclub@ku.edu with any questions or comments