

## FINAL REPORT

### ACS Innovative Projects Grant

**Directions:** Please tell us about the outcome of the project or activity that your section accomplished through the Innovative Projects Grant. You need not repeat information provided in your IPG application—simply summarize very briefly what you did, focusing on the results and impact of the event on your local section and/or the broader community. Tell us about your collaborations (if applicable) and “lessons learned” from conducting this type of project.

**Local Section:** Kentucky Lake

**Application deadline for which you applied:** August 1, 2007

**Submitted by:**

Name: Keith Butler

Address: 5 Lowery Ln

Trenton, TN 38382

E-mail address: kbutler@aoll.biz

Phone Number: (731) 414-6598

**Project Title:** “Safety in the Chemical Workplace (changed from the original proposal title “Safety in the High School Laboratory”)

**Briefly summarize the project results & impact in a concise paragraph:**

Several school systems were represented from 40 miles to our North in Baldwell, Kentucky to 135 miles to our South in Memphis, Tennessee. Most attendees were high school chemistry teachers but at least one attendee was a biology instructor from Rhodes College in Memphis. Our presentations ran longer than scheduled because of the substantial interest shown from attendees by the variety and depth of the questions asked. Attendees contributed shared experiences and resources they had utilized. It was evident from these discussions that we were providing valuable information to this underserved population of the chemical education system. The format used was very conducive to the exchange of information.

A survey taken at the end of the event (ATTACHMENT 1.) received overwhelming high scores with comments such as “great” and “fantastic job”. Teachers indicated immediate actions to be taken would include: safety goggle policy, updating MSDS access, cleaning and reorganizing chemical storage areas, and contacting State environmental officers for guidance on waste management. It was observed that pertinent conversations continued among attendees and attendees and speakers for some time after the event ended.

**Estimated # members involved (volunteers & attendees):**   4  

**Estimated # people reached by event:**  25

**Describe any PR generated by your event. Please attach appropriate files or include website link, if applicable.** We sent 166 letters of invitation (ATTACHMENT 2.) to high school teachers, principles and administrators. Over 80% of these were personally addressed to the individual recipient. Those attending received a conversation generating tee shirt bearing the section name and ACS logo (ATTACHMENTS 3 & 4.). Certificates of participation were given to attendees as well. Our web site is:

<http://www.utm.edu/staff/skairee/klsipg07.html>

**If you partnered with another ACS entity or outside group, please list your partner(s) and then comment on how the collaboration(s) worked out (both positives & negatives).**

This event was held in conjunction with an event sponsored by the University of Tennessee at Martin SAACS chapter. Their event was their annual “Science Bowl” for high school chemistry students from across our section. Our target audience was the sponsoring teachers. However, we did have attendees who were not associated with students in the Science Bowl. It is believed that there was a synergistic effect that resulted in more attendees for both events. The only negative identified was the difficulty coordinating schedules to have a joint session for both events.

**If you were to repeat this program again, tell us what, if anything, you would do differently. (Please consider your evaluation plan when you respond to this.)**

Consideration would be given to holding this event independent of a coordinating activity. This would allow more freedom of program scheduling. Our event was held on a Saturday. Attendance may have been more appealing to high school teachers if it were held Monday – Friday. If ACS volunteers and facilities could be found, Friday would be considered for a repeat program.

**The grant money received:   X   was more than adequate, \_\_\_\_\_ was barely enough, \_\_\_\_\_ had to be supplemented by other funding sources. Please list the major expenditures utilizing the grant funds. (Note: You do NOT need to attach receipts.)**

\$220 Coffee & Pastries

\$464 NIOSH Safety Manual & Hazardous Waste Poster giveaways

\$621 Tee Shirts

\$588 Speaker expense reimbursements

\$325 Attendee mileage

\$493 Administrative costs

Final Cost of Project = \$2711.08

***Please keep in mind that your local section is not eligible for additional funding from the Innovative Projects Grant Program until this final report is submitted. Thank you!***

## ATTACHMENT 1 – WORKSHOP SURVEY



# AMERICAN CHEMICAL SOCIETY KENTUCKY LAKE SECTION



### Workshop: SAFETY IN THE CHEMICAL WORKPLACE

*Please express your opinion on the following questions, rating on a scale of 1-5, with 1 being "low" and 5 being "high."*

1. \_\_\_\_ Did the workshop materials enhance your understanding of the topic?

2. \_\_\_\_ Was the presentation clear?

3. \_\_\_\_ Was the handout material helpful?

4. \_\_\_\_ How much previous knowledge did you have of these topics?

5. \_\_\_\_ Were the presenters knowledgeable of the subject matter?

6. \_\_\_\_ Were the facilities comfortable?

7. What can we do, in your opinion, to improve the workshop content?

8. What topics are of interest to you that might use for planning future workshops?

5. How did you hear about the workshop? (Choose one)

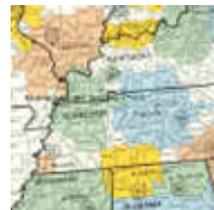
- Mailings
- Administrator
- Fellow Teacher
- Web Site
- Other

## ATTACHMENT 2 – LETTER OF INVITATION



Kentucky Lake Section of the  
American Chemical Society  
Safety in the Chemistry Workplace  
Free Workshop at UT-Martin on  
November 10

<http://www.utm.edu/staff/skairee/KLSipg07.html>



September 19, 2007

Dear Colleague;

You are cordially invited to participate in a no-cost workshop for Safety in the Chemistry Workplace for high schools and colleges. Certificates of participation and other recognitions will be awarded for your attendance. It is hoped that your administrators will support your attendance by giving in-service or professional development credit for the investment of your valuable time.

Attendees will be made aware of hazards which may have been overlooked and of the resources and options available to remedy those hazards. It is hoped that the ultimate impact of this workshop will be to create a better, safer place for our students to learn and for you to work.

Topics to be covered include:

- Personal Protective Equipment
- MSDS
- Experimental Design for Hazard Minimization
- Waste Management/Environmental Stewardship
- Proper Storage of Hazardous Materials
- Storeroom Inventory and Shelf Life
- General Laboratory Safety

This workshop is sponsored by the Kentucky Lake Section of the American Chemical Society with support from an Innovative Projects Grant from the ACS. *Literature and other mementos will be provided free for participants. Mileage will be partially reimbursed.*

The 28th annual High School Science Bowl is being held in conjunction with this workshop. Information about the Science Bowl is available on the web at: <http://www.utm.edu/staff/skairee/scibowl/>. Please encourage your students to participate in the Science Bowl while you attend the workshop.

For registration or information contact us by email or telephone: [kbutler@aolc.biz](mailto:kbutler@aolc.biz), [skairee@utm.edu](mailto:skairee@utm.edu), 731-414-6598 and/or 731-881-7450. Please register by October 22.

Sincerely,

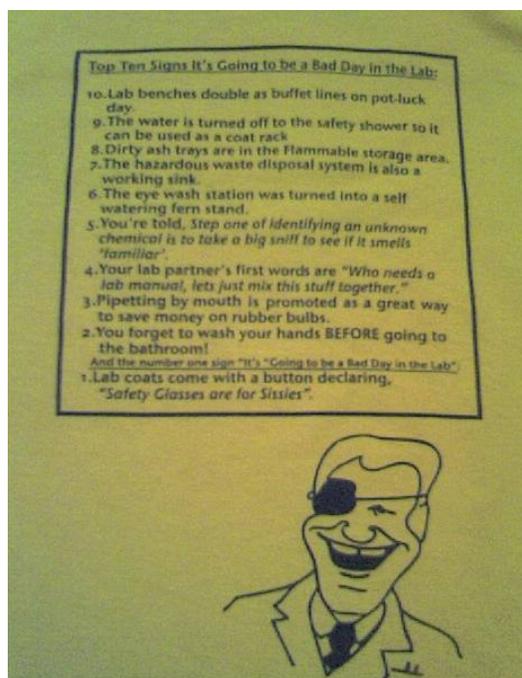
Keith Butler, Chair  
5 Lowery Lane  
Trenton, TN 38382

## ATTACHMENT 3 – TEE SHIRT FRONT (pocket)



### Safety in the Chemical Workplace Kentucky Lake Local Section American Chemical Society

## ATTACHMENT 4 – TEE SHIRT BACK



### Top Ten Signs It's Going to be a Bad Day in the Lab:

10. Lab benches double as buffet lines on pot-luck day.
  9. The water is turned off to safety shower so it can be used as a coat rack
  8. Dirty ash trays are in the Flammable storage area.
  7. The hazardous waste disposal system is also a working sink
  6. Eye wash station was turned into a self watering fern stand.
  5. You're told, *step one of identifying an unknown chemical is to take a big snif to see if it smells 'familiar'.*
  4. Your lab partner's first words are *"Who needs a lab manual, lets just mix this stuff together."*
  3. Pipetting by mouth is promoted as a great way to save money on rubber bulbs.
  2. You forget to wash your hands BEFORE going to the bathroom!
- And the number one sign "It's "Going to be a Bad Day in the Lab":

1. Lab coats come with a button declaring, *"Safety Glasses are for Sissies"*.