



ESD Lab Safety Course Taught at the FIRST Bldg. (article taken from ESD Website by Dena Roth)

A fall semester course in lab safety is being taught by Environmental Safety Division's (ESD) program specialist, Dena Roth, entitled "Safe and Responsible Management in Laboratories." The course is offered through the Environmental Health and Science Department (EHS) and is a pilot course for graduate-level students.

EHS is attempting to make this lab safety class available as an academic class in the fall of 2005. The course will be taught by an ESD staff member at the FIRST Bldg. training lab.

The following excerpt is taken from ESD's website at www.esd.uga.edu and explains the purpose of the course and for whom it is intended. Please log onto our website for further information about the course.

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Much effort is expended in preparing future researchers, development of research projects and performing the extensive documentation of results. Unfortunately, preventable laboratory accidents occur too often resulting in tremendous cost to both research institutions and the researchers themselves when years of work are destroyed. With the exception of brief lab safety instructions given during undergraduate courses and required online training considered in how to operate a safe lab, this course is designed to give people who intend to make research their life long profession the information and tools they need to always work safely in a lab. The curriculum is designed to enhance the research product and process by reducing the possibility of things such as costly lab accidents

or cross contamination. This course will cover laboratory safety in the three primary areas of chemical lab safety, radiological lab safety and biosafety in labs; although not all students will work with radiation or biohazards, the potential does exist that during the course of their research career that this could happen.

What Students Will Learn

Students will leave with the information and tools to eliminate, or at a minimum, reduce the effects of any lab accident that may occur. Students who successfully pass this course will also receive a certificate indicating they are trained at the First Responders Awareness Level.



Wes Kolar (back to camera) is instructing graduate students in what materials to keep in labs to cleanup spills. Dena Roth (in lab coat facing Wes) is a co-instructor on chemical spills.



(right) This is the state-of-the-art classroom or conference room at the FIRST Bldg.; whichever gathering is scheduled, people will be comfortable in the new chairs pulled up to the new student-use designed tables.

Chematix™ Rolls Out on Campus

by Renee Perro

The Environmental Safety Division has been implementing a newly designed and unique web-based chemical inventory tracking system. We began our endeavor in the new CCRC building with Dr. Michael Pierce as our first pilot lab host. We will be moving on into other laboratories in the CCRC before the end of summer, and expect to have the entire building on board by late fall as we move further to the rest of campus.

The tracking system, called Chematix™, is the intellectual property of UGA and was developed under our direction by SIVCO Tracking, Inc. It is the most comprehensive chemical management system of its kind, and is being seriously considered by other major research universities.

We are very excited to share it with the campus community as we believe it will serve as a valuable safety, compliance, and economic tool in research laboratories. We are working on arrangements for sharing Chematix™ with other university system schools in Georgia, and beyond.

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Next issue will be published around December 17, 2004.

Rad Dawg News

by Jody Jacobs

Precautions Regarding Instruments and Devices that Contain Radioactive Sources

Research personnel should be aware that there are a number of devices that may be found in the laboratory environment that have potential to contain radioactive sources. When in normal use, these devices pose minimal radiological risk to personnel. However, proper registration, maintenance, and disposal of this equipment are essential to ensure that health and safety concerns do not arise and to prevent any regulatory compliance problems.

Examples of such devices include gas chromatographs containing electron capture detectors (ECD's), liquid scintillation counters and gamma counters that contain reference sources, certain types of static eliminators, and some soil moisture/density gauges. If you do not know the radiological status of a device, you may first check for any radiological warning labels, review the manufacturer's technical manual, or contact the manufacturer directly to obtain safety information. If at any time you are unsure about the radiation safety aspects of any device, please contact Radiation Safety for an evaluation.

In order to control the hazards of these type devices, you need to register the devices with Radiation Safety. There is no cost associated with Radiation Safety registration and the paperwork is relatively simple. Upon registration, you will receive a safety training fact sheet. We will ensure that the device is properly marked with appropriate radioactive warning labels. Radiation Safety also provides a free leak testing service, at six month intervals, for certain radiological devices.

(cont. above)

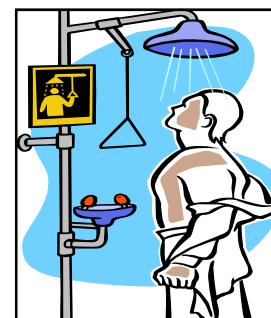
Maintenance and repair of devices that contain radioactive materials must only be done by qualified vendors or the device manufacturer. Radiation safety personnel should be contacted to assist with this process. Disposal of this equipment must also be done through the proper channels. Always notify Radiation Safety prior to disposal or transfer of radiological equipment from its existing location. Improper disposal of radioactive sources can have serious negative consequences, including health risks to disposal personnel and regulatory compliance violations. Your attention to detail and a few minutes of your time can prevent these negative consequences. Know nukes, or if you don't know, call the Rad Dawgs.

Safety Shower and Eyewash Checks

by Heath Hardison

The Environmental Safety Division will be testing emergency showers and eyewashes on the University's main campus. Personnel from our Division will check to make sure this equipment is functioning properly. Equipment that is in need of repair will be documented to make up a repair/replacement list. Hazards around this equipment will be noted and recorded.

Laboratory workers should check their emergency eyewash at least once a week to make sure it is functioning properly. Any problems or concerns about emergency showers or eyewashes should be reported to Heath Hardison at hhardison@esd.uga.edu



Get Out and Stay Alive

By Michael Hodgson

You've just got back to school and you're in your new room away from your family—some of you for the first time in your lives. This is a great experience; no one to tell you when to go to bed, no noisy brothers or sisters to get into your things. You're sitting back relaxing after a full day of classes trying to wind down a bit then all of a sudden you hear someone in the hallway yelling "there's a fire burning!" What are you going to do? **Your survival is your top priority.**

You should:

Feel the Door Handle

- If the handle is hot, don't open it. Call for help by dialing UGA police at 542-2200 or yell out the window.
- If the handle is not hot, open cautiously. Check for smoke or fire before going out.

Get Out of the Building Before Phoning for Help

- Don't take time to phone before leaving.
- Get out and then find a phone.

Pull the Fire Alarm on Your Way Out

- Fire alarm pull stations are located at each exit. Know their location.

Don't Look for Other People or Gather Up Your Stuff

- Knock on doors as you leave.
- Yell "FIRE!" as you leave.
- Don't hesitate or stray from your path as you leave.

Crawl Low to the Floor

- Thick smoke can make it impossible to see.
- Toxic chemicals from smoke can be deadly in minutes.

Close the Door Behind You

- You may help keep the fire from spreading.
- You may protect your possessions from fire and smoke damage.

If You Can't Get Out, Get Someone's Attention

- Yell and scream.
- Hang a sheet from the window.
- Stay low, there is less smoke and poisonous gases close to the floor.

Take Responsibility for Prevention

Fires can be prevented from starting if you take some simple precautions:

- Assign a non-impaired "event monitor" if you are having a party.
- Clean up immediately after parties and take all trash outside.
- Do not overload electrical outlets.
- Keep halogen lamps away from combustible materials.
- Don't use candles or incense; they are prohibited in university housing.

Tampering with smoke alarms, pulling false alarms or misusing fire protection equipment is a criminal offense. These are dangerous pranks and should be reported immediately.

Make A Plan

You can make a plan for your own fire safety and protection as soon as you get back to the room. Use the following checklist:

- Check to make sure your smoke alarms are working.
- Find all possible exits from your room or residence.
- Make a fire escape route plan that includes two escape routes.
- Practice your fire escape route plan.
- Perform a "home inspection" for fire and safety hazards.
- Tell your roommates about your plan.
- Call your local fire safety office for more information about stu-

The University of Georgia Fire Safety Office (706-369-5706) would like to extend their thanks to The National Fire Protection Association www.nfpa.org for the information which is provided on their websites.

"Old Miss Fraternity House Fire Kills 3"

Don't be a headline like this one. Party like there IS a tomorrow. Make a plan for survival.

Kudos . . .

- **Thanks to Jessie O'Brien, Dr. Alan Przybyla and all those in Dr. William Lanzilotta's lab for their work in a laboratory clean out. Thanks to Dr. George Majetich and his laboratory help as well as Dr. John Stickney in Chemistry for their continued work in laboratory clean outs and chemical reorganization. Thanks to Brian Adams for the tremendous amount of work he has done with both of these groups involving their hazardous materials disposal efforts. Keep up the good work; we appreciate it.**
- **ESD would like to welcome new employees: Doug Burrell, radiation safety technician; Ben Hale, hazardous materials specialist; Kelly Beck, administrative secretary; and our new FWS, Shanari Carter.**
- **ESD would like to thank the grounds department at Physical Plant for their assistance in landscaping the grounds at the FIRST Building Training Facility and to the divisional staff for their hard work planting trees and plants.**

Lab Equipment Funding

by Chad Jordan

The Environmental Safety Division would like to thank Mr. Hank Huckaby, Senior Vice President of Finance and Administration, and the Laboratory Safety Committee for their continued safety support. Mr. Huckaby provided funding to purchase safety equipment for the research community. Through a combined effort from Mr. Huckaby and ESD many researchers will receive much needed safety equipment in their research laboratories.

Most of the equipment purchased was intrinsically safe refrigerators (special type refrigerators capable of handling the storage of flammable solvents), flammable storage cabinets, and multi-purpose chemical spill kits (able to handle solvent, acid, or caustic spills). Purchasing these items in bulk provided discounted pricing which in turn allowed ESD to purchase more safety equipment than if individually ordered by the researcher.

Thanks, Mr. Huckaby, for your continued support; and we all at ESD hope in the future to continue this program.



Chad Jordan of ESD moves a refrigerator to a laboratory recipient.

Dr. Daryl E. Rowe Wins 2004 Walter S. Mangold Award

(Excerpt is from the bulletin used at the presentation banquet.)

The National Environmental Health Association is proud to present the 2004 Walter S. Mangold Award, its highest honor, to Dr. Daryl E. Rowe.

Dr. Rowe has devoted over 38 years to public service and has made a lasting contribution to the environmental health profession as a practitioner and academician. He began his career as a registered sanitarian with the Athens City-County Health Department in 1966; and in 1972, he entered academia at Cleveland State University in Ohio as an assistant professor and director of the environmental health program. In his present position as biosafety officer for the University of Georgia (UGA), he is responsible for select agent programs, training of personnel, consultation with researchers, monitoring of research activities using biohazardous agents, and biosecurity development for laboratories. Rowe also is an adjunct professor with the Department of Environmental Health Science/Environmental Safety Division at UGA.

In addition to his responsibilities at UGA, Rowe regularly assists students with the development of their internship projects and serves as an invaluable mentor and role model.

The Walter S. Mangold Award is the highest honor that the National Environmental Health Association can bestow on one of its members. The award was established, named in his honor, and presented to Professor Mangold in 1956 in recognition of his contributions to the sanitarian profession.

It is both a privilege and an honor for NEHA to present this award to Dr. Daryl E. Rowe, a man who exemplifies both the spirit and the ideals of the late Walter S. Mangold.



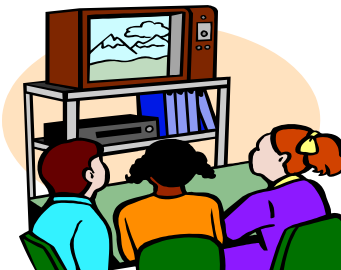
Life long friend and colleague, Dr. Howard Steiver and wife (left) and Dr. Rowe and Linda Rowe (right) stand beside the Mangold Award during the banquet honoring Dr. Rowe as the recipient of the award, which was hosted in Anchorage, Alaska, May 2004.

After years of dedication to his career, to community, and to people, Dr. Rowe is retiring in January 2005. He plans to contribute most of his time to his two grandsons and granddaughter; however, he plans to continue to teach a class in Environmental Health on a graduate level, on a part-time basis.

We at ESD will miss him, as well as the University community.

Safety Videos Available

The Environmental Safety Division has a library of safety videos which can be borrowed free of charge by University employees. Call us at (706) 542-0113 or place a checkmark by the videos you wish to borrow and return this completed page to us. Videos can be borrowed for up to two weeks or longer, if necessary; they can also be reserved for upcoming training classes you might be conducting. For a description of each video, including its length, go to our website: www.esd.uga.edu/info/pub/vlibrary.pdf.



Art Safety:

(A1) ___ Health Hazards and the Visual Arts

Chemical and Laboratory Safety:

(CL2) ___ Chemical Storage Hazards

(CL3) ___ Chemical Hazards

(CL4) ___ A Place for Everything: Chemical Storage in the Laboratory

(CL5) ___ Practicing Safe Science

(CL6) ___ The Keys to Laboratory Safety

(CL7) ___ Introduction to Reactive and Explosive Materials

(CL8) ___ Radionuclide Hazards

(CL9) ___ Science—Live to Tell About It

(CL10) ___ Glassware Washing Hazards

(CL11) ___ Centrifugation Hazards

(CL12) ___ Fume Hood Test and Training

(CL13) ___ Safety Showers and Eyewashes

(CL14) ___ All Washed Up

(CL15) ___ Safe Handling of Laboratory Glassware

(CL16) ___ Whose Job Is It Anyway?

(CL17) ___ Laboratory Fume Hood Safety

(CL18) ___ Assessing Risks of Toxic Chemicals

(CL19) ___ Flammables and Explosives

(CL20) ___ Mammalian Cell Culture Hazards

(CL21) ___ X-Ray Diffraction Hazards

(CL22) ___ Controlling Your Risks—HIV in the Research Laboratory

(CL23) ___ Working Safely with HIV in the Laboratory

(CL24) ___ Preventing Contamination

(CL25) ___ Get Your Checklist Ready—A Guide to Lab Safety Inspections

(CL26) ___ Laboratory Safety: Potential Hazards II

(CL27) ___ Ether Removal at Mercer University; Reactives/Explosives, AETC

(CL28) ___ Hazardous Materials

(CL29) ___ Lab Safety

(CL30) ___ Chemical Lecture & Demonstrations

(CL31) ___ It Only Takes a Second

(CL32) ___ Confined Spaces—Silent Killer

(CL33) ___ Virtual EPA Inspection of a College or University

(CL34) ___ Environmental Health: The Invisible Profession

Driver Safety:

(DS1) ___ Just Another Saturday Night

(DS2) ___ Breaking the Accident Chain of Events

(DS3) ___ Night Driving

Emergency Procedures:

(EP1) ___ Tornado—Nature’s Fury 2000

(EP2) ___ Chernobyl—Legacy of a Meltdown

(EP3) ___ Emergency Response

(EP4) ___ Preparing for a Crisis on Campus

(EP5) ___ An Orientation to Community Disaster Exercises

(EP6) ___ Bioterrorism and Mass Casualty Presentation; UGA; 10/31/01

Fire Safety:

(FS1) ___ Fire Safety in the Laboratory

(FS2) ___ Fire Escape—Getting Out Alive

(FS3) ___ How Fast It Burned!

(FS4) ___ Ready to Respond

Gas Cylinders:

(GC1) ___ Gas Cylinders—Welding, Cutting, and Brazing

(GC2) ___ Compressed Gases Can Be Dangerous; An Explosion Case History

(GC3) ___ Handling Compressed Gas Cylinders

(GC4) ___ Gas Cylinders—Overview

Right to Know/Hazard Communication:

(RTK1) ___ Cracking the Code

(RTK2) ___ Material Safety Data Sheets

(RTK3) ___ MSDS—Roadmap to Safety; Read that Label

(RTK4) ___ Your Right to Know

(RTK5) ___ Right to Know: Administrator’s and Trainer’s Guide

(RTK6) ___ Your Right to Know; MSDS—Roadmap to Safety

<p>Name _____</p> <p>Date Requested _____ Department _____</p> <p>Room No. _____ Building _____</p> <p>Mailing address (if off-campus) _____</p> <p>Phone _____ E-mail _____</p>
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