

Environmental Health & Safety

# Safety BEACON

www.udel.edu/ehs  
302-831-8475

## 24TH ANNUAL SAFETY COMMITTEE GATHERING



Environmental Health & Safety would like to thank everyone who attended this year's Safety Committee Gathering held on June 19th at the Perkins Student Center. We are grateful to have so many members in the University community that support our mission in keeping the University healthy and safe. This year we had over 65 guests in attendance. EHS invited various Safety vendors that work with the campus to the gathering. Aramsco, Cintas and Thermo Fisher Scientific staffed tables, gave away door prizes, and providing attendees with information about the goods and services they offer to the University.

Each year, we recognize a department or group that places a high priority on fire and life safety on campus. During our gathering, we present the chosen department or group with a framed certificate of recognition. This year, two departments were recognized! Morris Library and UDNF/Harker ISEL. Morris Library, led by Vice Provost Trevor Dawes, and his dedicated staff, established and maintained the Library's stairwells as "Areas of Refuge". The areas are clearly marked for patrons and staff who have physical limitations and are unable to evacuate downstairs in the event of a fire emergency. The second group that EHS recognized was UDNF/Harker ISEL. This group demonstrated the highest level of fire safety and fire prevention surpassing all other research locations on campus. Their fire safety accomplishments far exceeded efforts of any contemporaries; which led EHS to select them as the first research operation group to ever receive this award. Thank you for keeping the safety of your staff and patrons at the forefront.

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EHS also presented awards to the winners of our Annual Safety Poster contest. Poster submissions had to represent one of the following topics: Lab Safety, Shop Safety or Personal Home Safety. First Place went to Angela Norton, Chemical & Biomolecular Engineering. Angela's poster focused on the proper use of personal protective equipment. Second Place went to Nate Sherman, Art & Design and Third Place went to Yamy Gonzalez, Chemical & Biomolecular Engineering. All three winners received gift cards to restaurants on Main Street. Congratulations to all of our winners!

During the gathering, EHS presented Diane Rudolphi from the School of Nursing with a plaque and gift for her effort in keeping nursing students safe during clinicals and while studying abroad. Diane has made tremendous contributions within the School of Nursing to ensure and enforce needle safety and exposure prevention. Together with some of her clinical coordinators, she has implemented various programs as a required tool for not only the students, but faculty and clinical preceptors too. We thank Diane for her help to keep our nursing students safe.

EHS also recognized Kjeld Krag-Jensen, DuPont Clean Room's Lab Manager. Throughout Kjeld's many years with the University, he demonstrated an ongoing commitment to safety throughout his labs and with his teaching practices. Under Kjeld's watch, the DuPont Clean Room instilled safe work habits for individuals accessing the space every day. In June, Kjeld retired from the University. We wish Kjeld a safe and healthy retirement. He will surely be missed.

Guest speakers at the recognition included Dr. Charlie Riordan, Vice President for Research, Scholarship & Innovation and Skip Homiak, Executive Director for Campus & Public Safety. The speakers focused on the importance of safety on campus and acknowledged the dedicated committee members working together to keep our community safe and compliant with regulatory requirements.

Each year, raffle prizes are awarded throughout the event. Attendees went home with some great prizes: a hammock, beach blanket and a "sand less" beach tote, a fire extinguisher, first aid kit, a UD backpack, gift certificates to Dunkin Donuts and a gift certificate for CPR/AED training for up to 12 department members. We hope all of the attendees enjoyed the gathering, delicious food and raffle prizes! Thank you to each of our committee members for all that you do every day to keep our campus safe!



UD Fire Marshal Kevin McSweeney presents Cory Pfeffer, UD Nanofab Lab and Ken Wassmer, ISE Lab with the 2019 Fire Safety Award



EHS Director, Mike Gladle gifts retiree Kjeld Krag-Jensen, Electrical and Computer Engineering with a UD photograph signed by the EHS staff thanking him for his many years of service



Representatives from Thermo Fisher Scientific hosted an information table during the gathering



Longtime coworkers and friends, Geri Foster, EHS Office Manager and Kjeld Krag-Jensen, smile for the camera



EHS Assistant Director, Krista Murray presents Art Department Coordinator, Nate Sherman with 3rd Place for participating in our annual Safety Poster Contest



Dr. Charlie Riordan spoke to the audience about the importance of safety and teamwork



EHS Director, Mike Gladle thanked and welcomed this year's attendees



Charlie Garbini, Lab Coordinator for Materials Science gets his portrait taken



Yami Gonzalez, Chemical and Biomolecular Engineering, was awarded Second Place for her safety poster

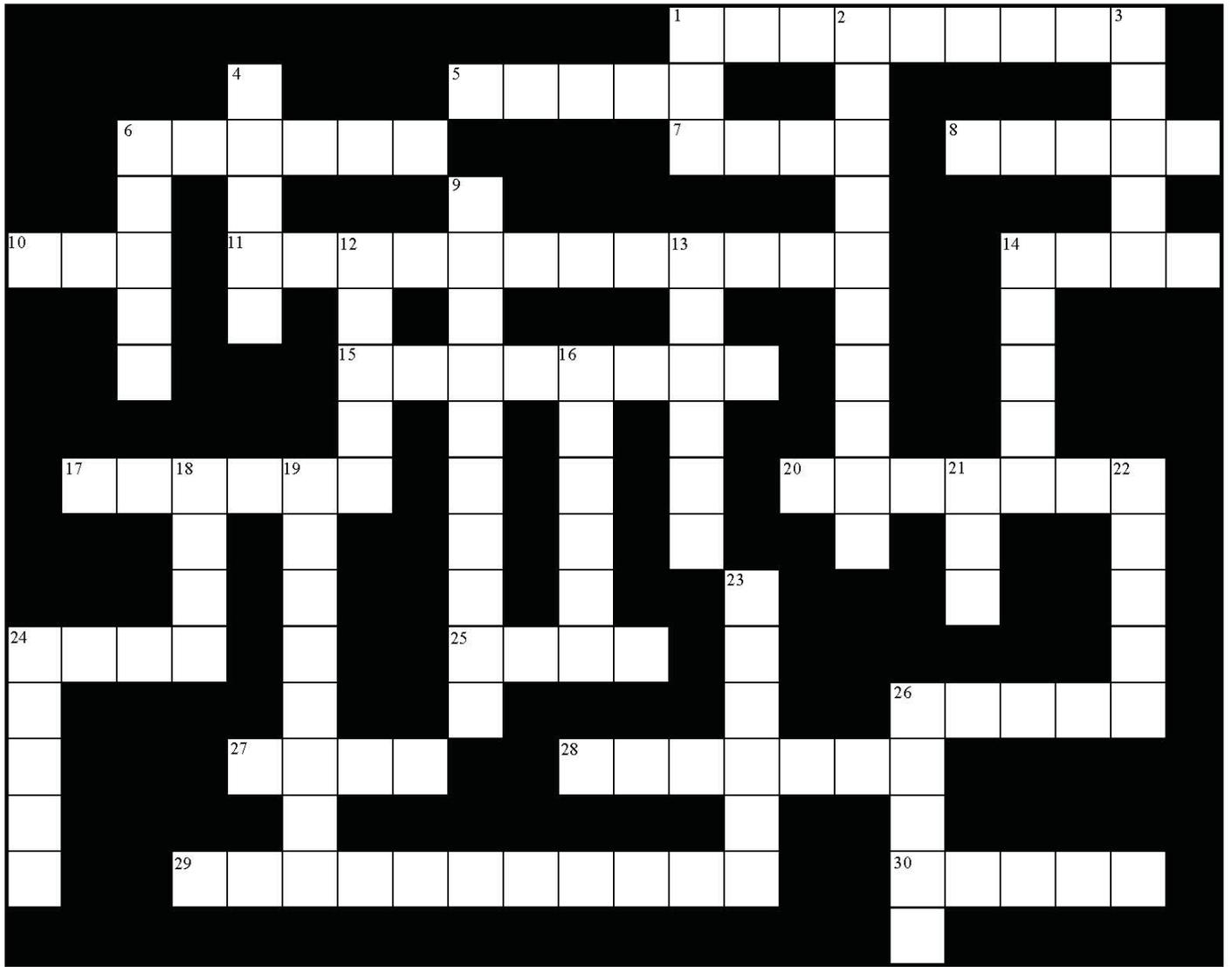


Patti Gerhart, Admissions Office looks over the Safety Committee Gathering Program Brochure



Facilities Custodial Director, Sylvester Johnson shares a laugh with OHS Specialist, Ed Jackson

# LABORATORY SAFETY CROSSWORD PUZZLE



WWW.PHDCOMICS.COM

# CROSSWORD CLUES

## Across

1. Report all \_\_\_\_\_ no matter how small.
5. For safe evacuation from the lab, know the locations of all of these.
6. This is a common piece of laboratory glassware and is a Muppet.
7. Return these to a board after you have locked your drawer.
8. Never leave books or backpacks here.
10. Use this to record all data in your notebook.
11. Use this to put out small fires.
14. Your lab reports should never be this.
15. Record all experimental results in this.
17. These are not permitted in the laboratory when flammable vapors are present.
20. These must be worn at all times in the laboratory.
24. Use the \_\_\_\_\_ when carrying out chemical reactions that generate flammable or noxious gases.
25. This is one way for a chemical to enter the body.
26. Never \_\_\_\_\_ a chemical substance in the laboratory.
27. If your clothes catch fire, one of the ways to put out the fire is to: stop, drop and \_\_\_\_\_.
28. A piece of safety equipment.
29. This piece of equipment is not designed to be used as a stirring rod.
30. \_\_\_\_\_ return unused chemicals to their original container.

## Down

1. What to do when you do not understand something.
2. Report all chemical spills to your \_\_\_\_\_.
3. The way to attract attention in the event of an accident.
4. If you spill an acid (or base) on your skin, flush the area with this first.
6. Wipe this down before leaving the laboratory.
9. A balance is a type of laboratory \_\_\_\_\_.
12. Piece of equipment to move hot objects.
13. These should not be worn in the laboratory.
14. Always clearly \_\_\_\_\_ your solutions.
16. Precise volumetric equipment used in titrations.
18. Always pour \_\_\_\_\_ into water and not the other way around.
19. People responsible for laboratory safety.
21. Be sure this is turned off at the end of the laboratory period.
22. You will “commonly” bring this with you to every laboratory period.
23. Use this if you spill an acid (or base) on your clothing or major part of your body.
24. Wash these before leaving the laboratory.
26. Always do this while in the laboratory (and during exams as well!!)

Adopted and edited from:

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Department of Chemistry

Northwestern University

# STORMWATER RUNOFF- WHO CARES?

## WE DO AND SO SHOULD YOU!

### What is Stormwater Runoff?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater runoff from naturally soaking into the ground.

### The effects of stormwater runoff and pollution:

- Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or bay. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing and providing drinking water.
- Excess nutrients such as those from fertilizers can cause algal blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.
- Debris such as plastic bags, six-pack rings, bottles, and cigarette butts washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Animals and people can become sick from eating diseased fish and shellfish or ingesting polluted water.
- Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.



In the picture above, you can see discoloration in the water. This discoloration is actually algal blooms forming on the surface.



Debris in our waterways like the plastic bottle seen above, can harm or kill aquatic life

### What can I do to help?

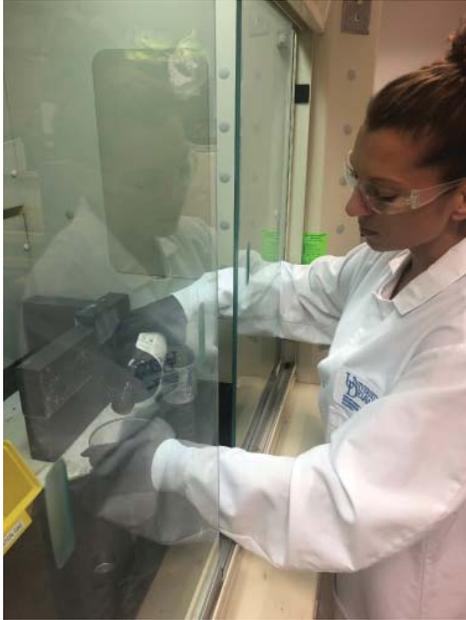
- Minimize the use of fertilizers, herbicides, and pesticides on your home lawns. If you must use the products, follow instructions for proper application. Do not over apply and do not apply before a rain storm.
- Put trash in trash cans and clean up litter. Keep the University dumpster lids closed; this keeps trash inside and keeps rainwater out which prevents trash truck leakage and reduced costs at the landfill.
- Wash your car at a car wash or wash your car on the lawn so that soap suds and dirty water get filtered in the grass as opposed to washing down the nearest storm drain.



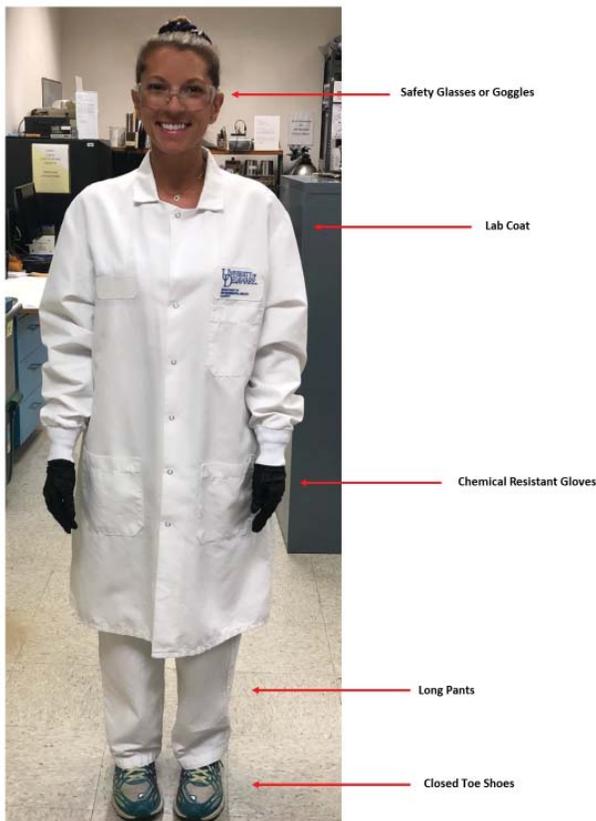
Did you know that used oil from a single oil change can pollute up to one million gallons of freshwater?

If you see any environmental hazards on campus, do not hesitate to call our office at 302-831-8475. As members of our community, we rely on you to help keep our campus and stormdrains clean.

# HAVE SUMMER LAB ASSISTANTS? MAKE SURE THEY FOLLOW LAB PROTOCOL TOO!



EHS mad scientist, Dianna DegliObizzi always dons the proper PPE when working on her experiments in the lab



Summertime means warmer weather, vacations and a normally quieter campus. It can also mean that there are intern opportunities for students in various departments as well!

If your department is lucky enough to host some of these students, there are a few things that need to be considered and procedures that must be followed:

- Be sure that personnel have (and wear) the required PPE that is appropriate for the tasks they will be doing.
- Make sure that summer personnel complete the required training before starting any work (This is especially necessary for lab personnel).
- If summer lab members have a UD email address, they can access BioRAFT to complete trainings. If they do not have a UD email address, we can set up guest access for them. Contact [dehsafety@udel.edu](mailto:dehsafety@udel.edu) with their name, email address, and the length of time they will need access (be working here), and we will grant temporary access.
- For any MINORS in the lab, be sure to fill out the “Minors Involved in Laboratory Research” form, found on the EHS website: <http://www1.udel.edu/ehs/forms/downloads/minorsresearchpolicy.pdf>
- Minors must be supervised at all times, complete the necessary trainings, and wear appropriate PPE. There are some restrictions regarding the types of work they may perform or materials they may handle; these are included in the above link.

If you have any questions please feel free to contact EHS at 302-831-8475 or [dehsafety@udel.edu](mailto:dehsafety@udel.edu)



# FIREWORKS

LEGAL IN DE, NOT LEGAL AT UD



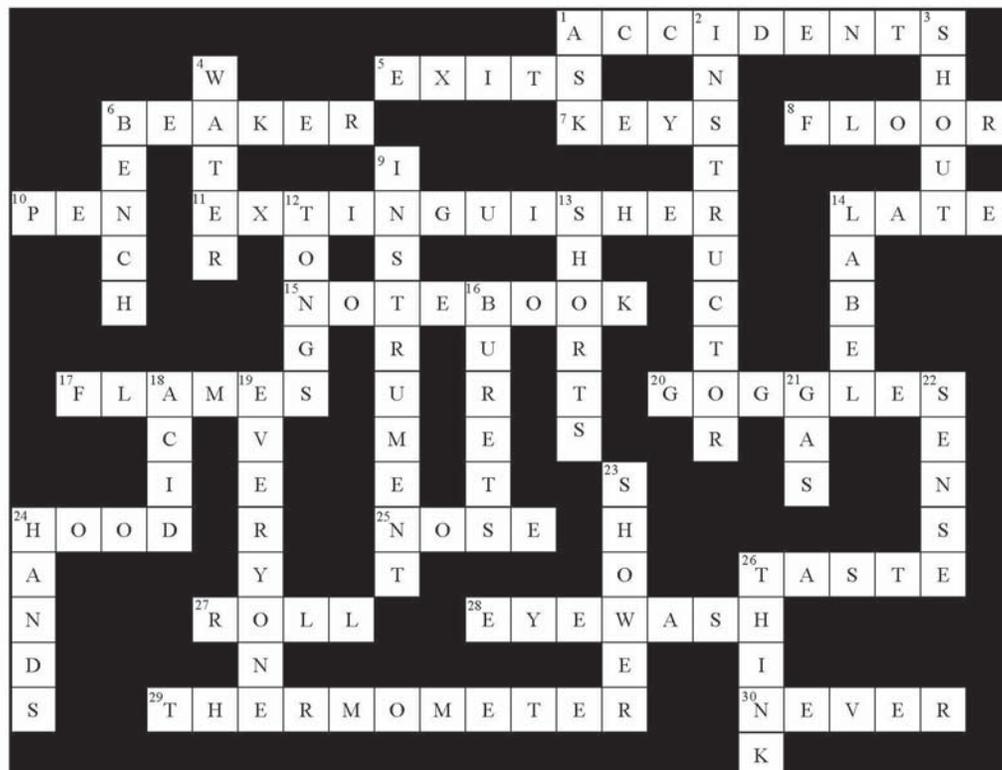
For the past 243 years Americans have gathered on the fourth of July to celebrate Independence Day. An Independence Day celebration is not complete without a display of fireworks. Fireworks, although very mesmerizing to watch, can be very dangerous.

The National Fire Protection Association (NFPA) statistics show that in 2011, fireworks caused 16,300 outside fires, 1,200 structure fires, and 400 vehicle fires, resulting in approximately \$32 million in property loss, and over half of those fires occurred around Independence Day.

Laws have recently changed in the state of Delaware that now allow consumers to purchase and use certain types of fireworks on specific holidays. Consumers may purchase sparklers and ground based firework displays at retail locations between June 4th – July 4th, and December 1st – January 1st. Consumers may only use the products on July 4th, December 31st and January 1st. If found using illegal fireworks or using fireworks outside of the permitted dates you could be subject to penalties and fines.

Although certain pyrotechnics can now be legally purchased in Delaware, it is important to note that fireworks and pyrotechnics are still not allowed on campus. Public pyrotechnics and firework displays on campus are always conducted by licensed professionals and are inspected and approved prior to each event.

## Crossword Puzzle Answers



## UPDATE: ERGONOMIC CHAIR LOANER PROGRAM

### WE'VE UPDATED OUR CHAIR LIST.

The ergonomic chair loan program was recently updated with the addition of several new chairs which have been popular among employees who have borrowed them so far. There are now fifteen chairs in the program, each of which can be borrowed for a free three-week trial.

The list of current chairs can be viewed at: <http://www1.udel.edu/ehs/generalhs/downloads/er-go-chair-program-2019.pdf>. While we are unable to keep them here in the EHS office due to limited space, they can be viewed by making an appointment with Ann Woodall to meet at UD's Institute for Energy Conversion Building here on the Newark campus to help in deciding which chair(s) to borrow.

For more information or if you have any questions, please contact Ann Woodall at [woodall@udel.edu](mailto:woodall@udel.edu)



The Haworth Chair, Style: Very



The Hon Chair, Style: Ignition 2.0

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Environmental Health and Safety would like to hear from you!

We encourage all members of the UD community to submit safety improvement ideas on campus.

You may submit ideas that impact your personal safety here on campus or the safety of the greater community.

Your participation will help raise safety awareness in our community!

Please submit your safety concerns/ideas via email to [dehsafety@udel.edu](mailto:dehsafety@udel.edu)

