

## **In this issue of the Environmental Health and Safety (EHS) Listserv April 4, 2018**

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### **1. Stormwater Management Plan – Comment Date Extended**

The University of Nebraska-Lincoln developed a Stormwater Management Plan (SWMP) in compliance with the Nebraska Department of Environmental Quality's Municipal Separate Storm Sewer System (MS4) regulations.

EHS welcomes comments regarding UNL's Stormwater Management Plan from the entire UNL community. The original comment period is extended, since the Nebraska Department of Environmental Quality has not yet put UNL's Stormwater Management Plan out for public comment. EHS will continue to accept comments from the campus community through April 2018.

#### **Resources**

- University of Nebraska-Lincoln Stormwater Management Plan (click "Submit Comments") <https://ehs.unl.edu/stormwater-management>

### **2. Driving Pride: How to Wash a University Vehicle**

That logo on the side of University vehicles acts as a rolling billboard and can visually reflect the pride we have in our institution. All drivers have a responsibility to keep those "rolling advertisements" shining.

But washing a car is not as simple as grabbing a hose and bucket on a sunny day. In fact, washing a vehicle outdoors anywhere on UNL's City and East campuses is strictly prohibited. When you wash a car outside all the soap, dirt, grit, and oil can flow into storm drains and directly into our streams and lakes. That causes pollution that is unhealthy to aquatic organisms and people.

University vehicles should only be washed at a car wash. A car wash is specifically designed to handle the pollutants vehicles can shed when washed. Here's how to do it:

- Use Transportation Services. They've got a wash bay that can accommodate vehicles as large as a bus. Call ahead to schedule a vehicle wash. Better yet, when you're having maintenance or repairs done, have the vehicle washed at the same time.
- Use the Voyager Card. Many local car wash facilities accept the Voyager card. Participating retailers can be found on Transportation Service's website. Approve the expense with your fleet manager beforehand.

Contact Dean Brame EHS Environmental Specialist ([dbrame2@unl.edu](mailto:dbrame2@unl.edu) or 402-472-2212) if you have stormwater pollution prevention questions.

## Resources

- EHS Stormwater Pollution Prevention Safe Operating Procedures (SOPs) <https://ehs.unl.edu/sop/storm-water-pollution-prevention>

## 3. Respirable Crystalline Silica?

Environmental Health & Safety (EHS) is seeking assistance in identifying workers at UNL who may be exposed to Respirable Crystalline Silica in their daily tasks. Crystalline silica is a common mineral found in the earth's crust. Materials like sand, stone, concrete, and mortar contain crystalline silica. It is also used to make products such as glass, pottery, ceramics, bricks, and artificial stone.

Respirable crystalline silica – very small particles at least 100 times smaller than the ordinary sand you might find on beaches and playgrounds – is commonly created during construction activities such as cutting, sawing, grinding, drilling, and crushing stone, rock, concrete, brick, block, and mortar. Activities such as abrasive blasting with sand; sawing brick or concrete; sanding or drilling into concrete walls; grinding mortar; manufacturing brick, concrete blocks, stone countertops, or ceramic products; and cutting or crushing stone (including road grading) result in worker exposures to respirable crystalline silica dust. Industrial sand used in certain operations, such as foundry work, well drilling and hydraulic fracturing (fracking), may also be a source of respirable crystalline silica exposure.

Workers in the immediate area who inhale these very fine particulates may be at risk of developing silica-related diseases including: silicosis, lung cancer, chronic obstructive pulmonary disease (COPD) and kidney disease. Recently OSHA established two new silica standards to better protect construction workers and others who may be exposed. If you think any of the tasks mentioned above are ones you might perform, the first step is to let EHS know what type of tasks you are conducting. Second, EHS can perform an assessment on the individual task. From there, if applicable, we will help

determine what types of tools or ventilation systems may be needed to reduce identified risks, including whether personal respiratory protection is needed.

Please contact Lisa Mensah at [lmensah2@unl.edu](mailto:lmensah2@unl.edu) or 402-472-6513 if you would like to discuss this subject more in depth or have your area evaluated.

## Resources

- OSHA Silica Overview <https://www.osha.gov/dsg/topics/silicacrystalline/>

## 4. Automatic External Defibrillators (AEDs) – PulsePoint®

AEDs are small, portable devices that can be used to treat heart attack victims. Because of their simple design and ease of operation, they can safely be used by members of the general public. Individual departments are responsible for purchasing, installing, and maintaining AEDs at UNL. If a department elects to purchase AEDs they must ensure that an ongoing maintenance program is established, implemented and funded.

After equipment is purchased and installed, contact local emergency response agencies and register the location of the unit with them. For equipment installed within Lincoln city limits, equipment may be registered online at <https://aedregistry.pulsepoint.org/>.

Cardiac arrest is the third leading cause of death in the United States. Automatic External Defibrillators (AEDs) are increasingly prevalent on the UNL campus. At UNL AEDs are available in some, but not all buildings. Knowing where the nearest AED is during a medical emergency is a matter of life or death. Now there's now an app for that, PulsePoint®!

PulsePoint® AED exists to crowdsource lifesaving AED location information. With PulsePoint® AED anyone can add AED locations. If someone sees an AED, this app allows them to check if it shows up on the map. If not, it's easy to add a location to the registry. Once information submitted is verified by local authorities, the new AED location will be added to the map.

The PulsePoint's® Respond application empowers everyday citizens to provide life-saving assistance to victims of sudden cardiac arrest. Application users may indicate they are trained in cardiopulmonary resuscitation (CPR) and are willing to assist in case of an emergency. If the cardiac emergency is in a public place, the location-aware application will alert trained citizens in the vicinity of the need for bystander CPR simultaneously with the dispatch of advanced medical care. This application also directs these citizen rescuers to the exact location of the closest publically accessible AED. Alternatively, if you see a cardiac emergency, after calling 911 you can look up the nearest AED.

Use of these two applications empowers CPR-trained citizens to help improve patient outcomes and save lives. Both PulsePoint® apps are available free for Android and iPhone.

## Resources

- **Automatic External Defibrillators SOP** <https://ehs.unl.edu/sop/s-AED.pdf>
- PulsePoint® AED information <http://www.pulsepoint.org/pulsepoint-aed/>
- PulsePoint® Download (both AED and Respond apps available) <http://www.pulsepoint.org/download/>

## 5. AED Disposal Considerations

Batteries are one of the most important parts of an Automatic External Defibrillators (AED) system. To make sure an AED will work perfectly in an emergency situation, periodically check batteries as directed by the manufacturer to make sure they are in good working condition and replace the batteries when needed. AED batteries contain heavy metals such as mercury, lead, cadmium, and nickel which must be properly disposed. Complete and submit a Hazardous Materials Collection Tag for disposal through Environmental Health and Safety.

Upon occasion, there may be a reason to dispose the entire AED unit. When discarding the entire unit, contact EHS for pickup and disposal of the device by completing/submitting a Hazardous Materials Collection Tag.

For questions on this topic or other disposal concerns, contact Tony Lloyd, 402-472-4942 or [alloyd4@unl.edu](mailto:alloyd4@unl.edu).

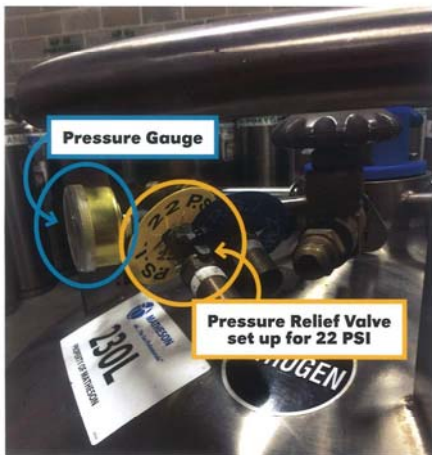
## Resources

- **Automatic External Defibrillators Safe Operating Procedure (SOP)** <http://ehs.unl.edu/sop/s-AED.pdf>
- **Battery Disposal SOP** <http://ehs.unl.edu/sop/s-batterydisposal.pdf>
- **Hazardous/Radioactive Material Collection Procedures SOP** [http://ehs.unl.edu/sop/s-chem\\_collection\\_procedures.pdf](http://ehs.unl.edu/sop/s-chem_collection_procedures.pdf)

## 6. Safety Poster – Liquid Nitrogen Safety

EHS provides a number of safety posters of relevance to the campus community. A poster on Liquid Nitrogen Safety was developed to raise awareness of safety considerations that arose from a “near miss” last fall.

## Liquid Nitrogen Safety



### Cryogenic Liquid (77K, -195°C, -320°F)

- Some cylinders can operate at 22 or 230 psi – verify pressure on Pressure Gauge.
- Verify proper Pressure Relief Valve setting (22 psi or 230 psi). This will control the dispensing pressure.
- If a fitting will not connect it's the WRONG fitting.
- Use leather or insulated gloves and safety glasses plus full-face shield when operating valves.
- Use/store in a well-ventilated area.
- If cylinder equipped with wheels and needs to move, always push never pull.



Safe Operating Procedure (ehs.unl.edu):

**Cryogenic Material**

University of  
**Nebraska**  
Lincoln | Environmental  
Health & Safety  
(402) 472-4925

Request your FREE poster(s). Contact [ehs@unl.edu](mailto:ehs@unl.edu) or 402-472-4925 with your name, campus mailing address including zip+4, and quantity desired. If you have an idea for a safety poster, contact Elizabeth (Betsy) Howe, [ehowe2@unl.edu](mailto:ehowe2@unl.edu), 402-472-5488.

### Resources

- Safety Posters <http://ehs.unl.edu/safety-posters>

## 7. Situational Preparedness – Just Drive

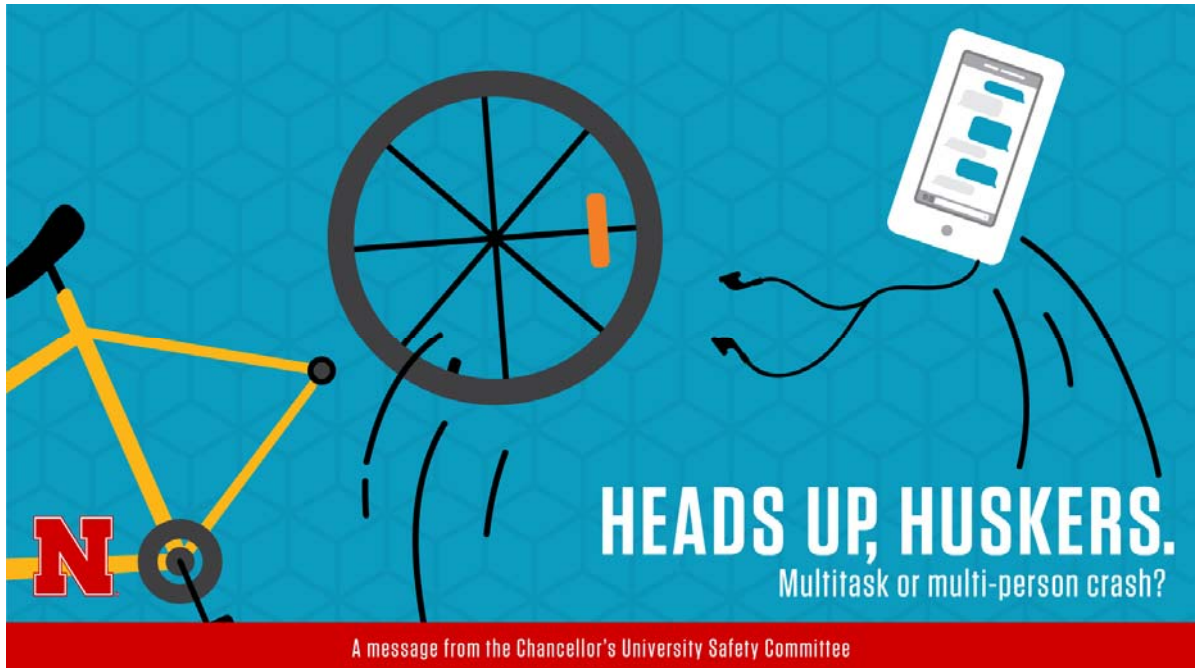
Situational preparedness is so important that we will be looking at various aspects over time, as well as providing resources to assist you to “be prepared” for whatever situations you may encounter.

Motor vehicle fatalities are up 6% from 2015, with more than 40,000 people killed in 2017. Cell phones to dashboard infotainment systems to evolving voice command features all pose a threat to our safety. Just one second of your attention is all it takes to change a life forever. Therefore, the National Safety Council has designated April as Distracted Driving Awareness Month 2018. The theme is “Just Drive.”

Those two simple, easy-to-remember words encompass the entire gamut of recommendations regarding distracted driving. There are many resources available on the National Safety Council Distracted Driving Awareness Month 2018 website: videos, infographics, checklists and more. Look over the

resources and share the information provided with your co-workers, family, safety committee, or as a toolbox talk in your workplace.

The Chancellor's University Safety Committee has been raising awareness of the dangers of distracted driving/bicycling/ walking for some time now. The current awareness graphic is:



The advice provided by the National Safety Council is also applicable for those who ride a bicycle, motorcycle or scooter. Just Drive. As you walk around campus remember: Just Walk!

## Resources

- National Safety Council “Free Materials for Distracted Driving Awareness Month 2018” <http://www.nsc.org/learn/NSC-Initiatives/Pages/DDAM-2016-materials.aspx?hsCtaTracking=eddb472b-3ecd-4a03-99c5-ce1c1b2f7bf6%7C689f402d-9487-4517-8bf6-122b362ac233>
- Chancellor's University Safety Committee *Heads Up!* campaign <https://ehs.unl.edu/heads-up-marketing-materials>

## 8. Safety Shorts – Distracted Driving

This series features links to short safety resource(s) each month. Provided this month are resources related to distracted driving.

- **Distracted Driving: One call Can change Everything**  
(NatlSafetyCouncil, 6.33 minutes)

<https://www.youtube.com/watch?v=UKCh4BHvXSQ>

- **The Last Word** (TextTheLastWord, 3.54 minutes)  
<https://www.youtube.com/watch?v=0DH1JGIYOL0>
- **April is Distracted Driving Month** (#JustDrive, 1.39 minutes)  
<https://www.youtube.com/watch?v=iUNCAMKZbFk>

NOTE: Resources are provided for informational purposes only. Publication does not in any way endorse a particular company or product or affect current UNL policies and procedures.

## 9. Your Opinion Matters

Environmental Health and Safety is committed to excellent customer service and offers a *Customer Satisfaction Survey* as an easy method for the campus community to provide feedback on our services and staff. By taking a few moments to complete the survey (<http://ehs.unl.edu/survey>), you will be helping us to identify areas where we might need to focus our attention.

In order to effectively evaluate potential areas for improvement, please provide specific information or examples and your name and contact information. The Director, Brenda Osthus, follows up on all submissions. We greatly appreciate your participation.

Please feel free to contact Brenda Osthus, EHS Director, at 402-472-4927 or [bosthus1@unl.edu](mailto:bosthus1@unl.edu) if you would rather communicate outside the parameters of this survey.

**Remember...SAFETY IS AN ATTITUDE!**

### **Environmental Health and Safety**

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