

Partnering with Civil and Environmental Engineering to Support Research

By Jon Schlee

In September of 2014, discussions were held between Facilities Services- Construction, Heavy Equipment, and the WSU Civil and Environmental Engineering Department to partner and determine possible locations to install pervious concrete sidewalk and integrate research equipment into the surrounding soil and within the pervious concrete.



The crew installed impermeable barrier on the check dam in prep. for installation of the permeable geotextile fabric.

Approximately three weeks of site visits and priority review for sections of sidewalk that met the criteria for replacement passed before a final choice was made. It was agreed to remove a 35' section of damaged sidewalk south of Community Hall. Working closely with the Engineering Department, Dave Kimbrel began the design process for the construction drawings. With a few minor modifications and some fine tuning, Liv Haselbach and Somayeh Nassiri from the Voiland College of Engineering approved the drawings.

With the construction drawings in hand, I began collecting cost proposals from vendors who were qualified to install pervious concrete. With the bid process complete, we awarded W.M. Winkler Co. (Spokane) the scope of work to install impermeable barrier, geotextile fabric, 1-1/2" washed rock, and form and place the specified mix of pervious concrete. We were ready to go, or at least we thought.

The representatives from the Voiland College of Engineering

were trying to secure funding for their research from the State of Washington Department of Ecology and were required to submit a 30 Day Cultural and Historic Review document to ensure there was no cultural or historic relevance of the earth at the proposed site before any disturbance was created. The time period had passed and no concerns or comments were officially provided by any group or individual to prevent ground disturbance. By this

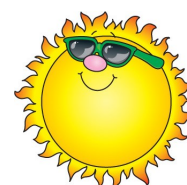
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With the geotextile fabric in place, next comes the 1.5 inch washed rock.

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time, inclement weather was prevalent, and threatened to allow the contractor to successfully install pervious concrete to the specifications set forth by the Engineering Department.

In March of 2015, Somayeh Nassiri, Construction Services Electrical Shop, and Heavy Equipment worked close together to compile a material list and a plan to install moisture sensors in the surrounding soil prior to the pervious concrete install. With a plan set forth that all parties agreed upon, Heavy Equipment provided trenching and dug holes for the sensor placement and underground wiring. The Electrical shop provided the electrical tie in and components. Heavy Equipment also donated a solar panel to trickle charge the backup battery during daylight hours.

May 18, 2015 was the date Heavy Equipment mobilized onsite to perform the excavation of the site and provide traffic control and install safety fencing.



The form is set and the pervious concrete is poured. Crews distribute the mixture evenly.



The finishing touches are to form the edges and roll the mixture smooth.

On May 20, 2015 W.M. Winkler placed impermeable barrier, geotextile fabric, and 1 -1/2" washed rock in preparation for the pervious concrete that was to be placed the same day. Atlas Concrete (Pullman) provided the pervious concrete and tailgate delivered the spec mix. W.M. Winkler placed the pervious concrete with exceptional professionalism and patience while the Engineering Department feverishly installed their moisture sensors and G.P.R. (Ground Penetrating Radar) plates. Along with installing the moisture sensors and G.P.R. plates, the Engineering Department was also collecting material samples and filling test cylinders with the pervious concrete mix for future research.

I would like to thank all parties involved with coordinating and executing this effort to facilitate this research driven project. Coordinating between WSU Facilities Services Construction, WSU Facilities Services,

Heavy Equipment, the Civil and Environmental Engineering Department at Voiland College of Engineering, and W.M. Winkler (pervious concrete installer). This project could not have happened without everyone's willingness to lend a hand and be involved.



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Facilities Services GIS Application Receives International Attention!

by Bob Nichols

Every July in San Diego, Environmental Systems Research Institute (ESRI), the industry leader in GIS technologies, hosts the International User Conference (UC) for GIS professionals around the globe. This gathering of over 15 thousand individuals from roughly 130 countries provides hundreds of technical sessions, an application fair, map galleries, expo demonstrations and presentations of real-world GIS projects. It is the single biggest conference for GIS in the world, and Bob Nichols and Don Hulst from WSU Facilities Services made quite the impression.

Facilities Services at the 2014 ESRI UC

This last July, at the 2014 ESRI UC, WSU Facilities Services GIS Developer Bob Nichols was selected to be among those presenting. His hour long presentation entitled, "Crowd Cartography: Mobile crowdsourcing of university facilities mapping", drew in a crowd of nearly 80 individuals, all with backgrounds in facilities management and operations. His presentation primarily focused on the innovative touch enabled utilities application that he and the Facilities Services GIS team have developed. The application leverages the power of GIS to update, collect and identify inaccurate utility data in an easy-to-use and intuitive manner. The presentation was extremely well received by both the conference attendees and ESRI staff. When speaking to people after the presentation, there was little doubt that other universities around the globe would be following in WSU's footsteps by implementing similar solutions.



For more information about the ESRI User Conference please visit: ESRI.com

2014 ESRI UC Application Fair

As part of the conference proceedings, ESRI hosts a user application fair in the main expo hall. Originally conceived by Jack Dangermond, the CEO of ESRI, it allows GIS developers to show off their latest applications to an audience of their peers. WSU Facilities Services public [GIS application](#) was one of the 25 apps that were selected by



WSU Facilities Services booth at the 2014 UC Application Fair

ESRI to participate. For two days in the main expo hall, attendees were able to visit the WSU booth and test drive the application. Event organizers and attendees alike were impressed with how intuitive the application was to use. WSU's dedicated booth also gave Bob a chance to give one-on-one demos of the utilities application to individuals who attended his presentation. Jack Dangermond himself even paid a visit to the application fair to check out some of the offerings.

Making Headlines – ArcUser Magazine

After Bob's presentation he was approached by ESRI's K-12 Education Manager, George Dailey. George was very excited to see what WSU Facilities Services has been able to accomplish and wanted to expose WSU to

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a much larger audience. He asked Bob if he would be willing to write and publish an article for one of ESRI's numerous publications. Bob was interested, and after speaking to ESRI's writers and chief editor, it was decided that the article would appear in ArcUser magazine. Below is a description of ArcUser Magazine from ESRI's website,

"ArcUser magazine provides practical, technical information to help you better understand and keep current with GIS technology and make the best use of Esri software. Its articles illustrate best practices and innovative ways to meet new challenges and solve common problems. Articles address the specific needs of GIS managers, GIS developers, GIS technicians, and those who use GIS to improve business processes or perform research."

In addition to offering the magazine online, ESRI distributes 450 thousand printed copies globally and is generally regarded as ESRI's premier publication.

We are pleased to announce that the article has been published in the Winter 2015 issue. A pdf version of the article can be downloaded and read by clicking here. We

invite everyone to check it out and see how WSU Facilities Services is making a name for itself in the world of GIS.



For more information or to see the entire current issue of ArcUser Magazine please visit: [ArcUser Magazine](#)



All Campus Picnic

August 21, 2015 from 11 a.m. to 1:30 p.m.

Outside of Beasley on NE Fairway Road

Free to staff with WSU ID. Employees are allowed an additional hour to their regular lunch break to attend the picnic.

Thank you to all the donors and the folks who recruited them and helped get the blood drive organized. We truly appreciate being able to come to Facilities Services and really enjoy the fun donors. Plus, they have really good veins!! I think they get the Best in the West Vein Group!! The Collection goal for the May 21 blood drive was 24 units. Unfortunately, only 21 donors registered and 19 made it all the way through. 19 units was only 79% of our goal. The next blood drive is scheduled for July 23, 2105. It would be wonderful to get back up to 30 donors scheduled for a target collection goal of 25. In 2012 Facilities averaged a 30 unit collection, 2013 average was 24, 2014 average was 23. We just put out the challenge to grow the blood drive! We do appreciate all who support and work for this blood drive.

Karen Parvin, American Red Cross

Facilities Services Sponsored Red Cross Blood Drive

Thank You

When you gave blood, you gave hope. Thank you on behalf of countless patients.

Your blood drive results

WSU FacOp

Date of Drive: **May 21, 2015**

Total Donors: **21**

Units Collected: **19**, 79% of the 24 goal



The need is constant.
The gratification is instant.
Give blood.™

**American
Red Cross**

Summer Pavement Maintenance.....by Eric Slocum

Every summer for the last 5 years Heavy Equipment has been working on a crack sealing program to preserve our streets, parking lots and travel ways. We work with Parking Services and Housing to prioritize campus needs and schedule locations for the work. By filling the cracks we prevent water from penetrating the surface and letting the freeze thaw cycle break and crack the asphalt surface further. We realized the benefit that filling the cracks would have on the life cycle of the as-

phalt surface from the effect of Mother Nature but we were pleasantly surprised at how long the material holds together areas that we felt had failed and would need asphalt patching very soon. There are some spots on the streets and in lots that basically the surface is broken into small pieces and needs replaced but by sealing all the cracks we have been able defer this full depth patch a number of years and extend the life span of the surface. It has been like putting a bandaid on a cut; it does not heal the injury but keeps it from getting injured more.

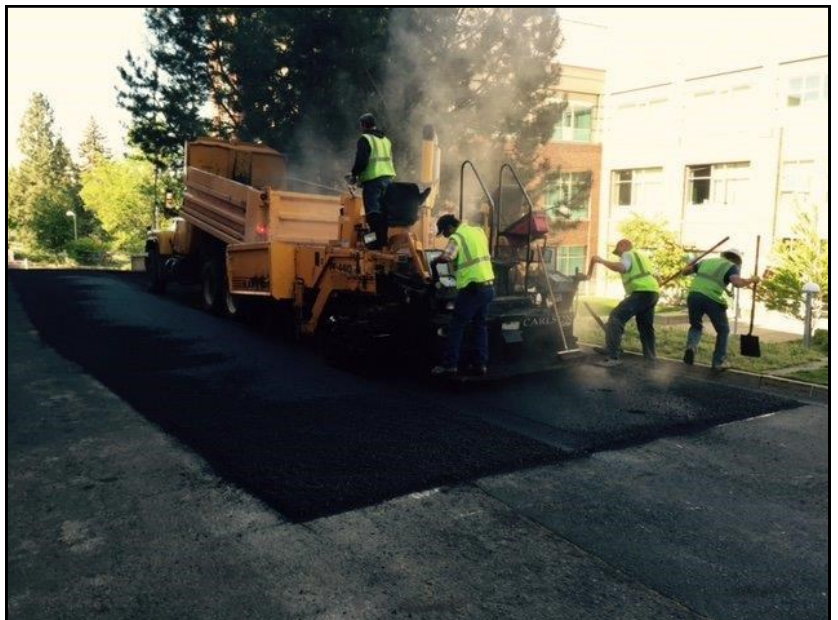
We are on a 4 year rotation with the parking lots. Every 4th year we should be able seal the cracks in each lot once. We found that fixing a few bad areas in some lots with a full depth asphalt replacement patch and also sealing the cracks allows Parking Services to increase the life span of a parking lot substantially. This preservation work directly affects what Parking needs to spend on total reconstruction projects and has direct impact on what the permit rates are or could be. Last year Housing Maintenance asked us to include them in a yearly program to seal the cracks in their lots also after seeing the success of what we are doing with the rest of campus.

The streets are prioritized by condition, amount of use and location. Keeping our streets passable and safe is our goal and we have been able to address the cracking on the entire system within a 3 year rotation. We know that sealing the cracked surface is a great preservation tool and has



helped slow deterioration but even with that our street life span has drastically dropped in recent years with the large amount of building construction traffic on campus, the increase in larger buses and just more overall traffic. For a time we could keep up with doing a few full depth replacement patches but now we need to do more and cover larger areas.

This year we will increase the amount of overlay patching that we have been doing for the last few years. It will be more of the same as Grimes Way by French Ad and Ellis Way over the hill to Ferdinand's Lane that we did last summer. With a little newer equipment we plan to overlay patch a number of blocks around campus this summer and when completed they look like a brand new street. It is a new surface and will last a number of years in good condition but a patch is a patch and the life span of a patch is not the same as a reconstructed street. Like all areas of Facilities Services maintenance needs, more in the budget would help us rebuild streets to new condition, but in the meantime these overlay patches will keep traffic moving and our streets safer.



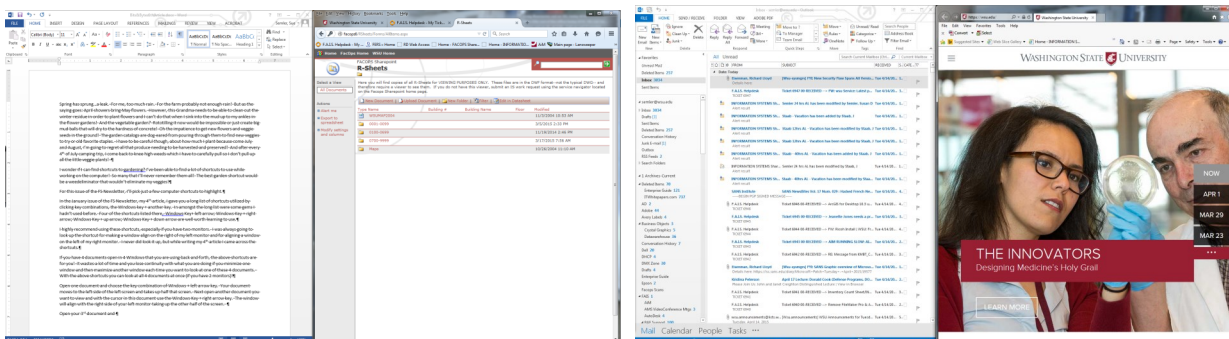
IT Bits and Bytes.....by Sue Semler, FAIS

In the January issue of the FS Newsletter, my 4th article, I gave you a long list of shortcuts utilized by clicking key combinations, the Windows key + another key(s). In amongst the long list were some gems I hadn't used before. Four of the shortcuts listed there, Windows Key+ left arrow; Windows Key + right arrow; Windows Key + up arrow; Windows Key + down arrow are all well worth remembering to use.

I highly recommend using these shortcuts, especially if you have two monitors. I was always going to look up the shortcut for making a window align on the right of my left monitor and for aligning a window on the left of my right monitor. I could drag a window to the far left and it would pin to the left side of the left monitor and I could drag a window to the far right on my right monitor, but I never figured out how to get windows to automatically align in the middle, to the right side of the left monitor or the left side of the right monitor. I never did look it up, but while researching for my 4th article, I came across the shortcuts.

If you have 4 documents open that you are using back and forth, two of the above shortcuts are for you! It wastes a lot of time, and you lose continuity with what you are doing, if you minimize one window and then maximize another window each time you want to look at one of these 4 documents. With the above shortcuts you can look at all 4 documents at once (if you have 2 monitors)! By the way...you can have 4 windows on one monitor, but they are so small they really aren't worth it!

Open one document and choose the key combination of Windows + left arrow key (My main monitor is my left monitor. If your main monitor is the right monitor, start with Windows key + right arrow key.). Your document moves to the left side of the left screen and takes up half that screen. Next open another document you want to view and with the cursor in this document use the Windows Key + right arrow key. The window will align with the right side of your left monitor taking up the other half of the screen. Open your third document and hold the Windows Key and click the Right arrow key twice. The window will align on the left of the right monitor. With your fourth document open, hold the Windows Key and click the right arrow key four times and the window aligns to the right of the right monitor.



What about the Windows Key + the up or down arrow keys? Well, the up arrow will maximize a window and the down arrow will minimize that window to the task bar.

Computer Problems? Email: fais@wsu.edu; Email not working or emergency? Call 5-FAIS (5-3247)





SERVICE AWARD

John Dawson
25 Years

Retirement Congratulations!

Arlynn Mumau retired on April 30, 2015

Arlynn started working for Custodial on December 17, 1984. He began working on Swing Shift, while on that shift he worked as a building custodian. In June, 1988 Arlynn was promoted to a Temporary Lead position assigned to Webster Hall. In October 1988, Arlynn was given a permanent Lead position and was assigned to Owen Library on the Graveyard Shift. He continued in that position until November of 1990, when he was promoted to the Custodial Supervisor position. As a Supervisor he started in the McCluskey Crew working on the Swing Shift. In 1991 Arlynn was instrumental in the startup of the 5:00AM Day Shift. He helped organize and implement the change to the new shift and was one of the 40+ employees that volunteered for the early morning shift. He was assigned to the Food Science Crew but also helped cover the Johnson Crew as well as the 7:30 Crew duties as we were short-handed with the Supervisor position when we made the change. Arlynn supervised the Food Science crew for over 24 years and knew the building clients very well. We appreciate his 30+ years of dedicated service and his willingness to adapt to the unforeseen needs of the campus. He was always willing to change his plans to accommodate someone else. We wish him many active and happy years of retirement.



Arlynn is pictured here with his son.

WSU Holiday Schedule

Independence Day	July 3, 2015
Labor Day	September 7, 2015
Veterans Day	November 11, 2015
Thanksgiving	November 26-27, 2015

Christmas	December 24 & 25, 2015
New Years Day	January 1, 2016
Martin Luther King Day	January 18, 2016
Memorial Day	May 30, 2016

Thanks for Working Safely!



Congratulations to Calvin Baisley as the winner of the “Thanks for Working Safely Award!” Calvin won the working safely award for ensuring he and another worker were correctly harnessed up and using the correct lanyards and anchor points for the work they were performing caulking windows in Bustad.



Tammy VanDyke is the Winner!

Tammy's entry for the APP Safety Question Contest was randomly selected from the total entries all correctly answered. Those correct entries not chosen will be placed in the bucket for the annual Safety Award Drawing at the 2015 Facilities Services Picnic on July 9, 2015.

Congratulations Tammy!

Thank you to all that entered the contest! Be sure to enter this month's contest on page 12`.



KUDOS

Everything looks terrific! Please pass on to the various folks (Caleb Hawkins, Signe Stolz, Bill West, Miguel De La Mora, and Craig Gray) who worked on the project my appreciation (Hulbert patch and paint room 405B add base.)

K. Lucas

I want to say a word about our new key guys. They're awesome. I've worked with both Shawn and Kelly, and not only are they nice and professional, they get stuff done. They make my job a lot easier. I haven't had the pleasure of working with Riley, but the whole shop is working like a well-oiled machine.

T. Amonett

I just wanted to send a quick note to let you know that our new custodian in Todd Hall, Gene (Pittman), is great and it has been great to have him in our building. Gene is always friendly, has positive attitude and the building looks great.

S. Druffel

I received a phone call from Sue Gilchrist who is a Receptionist from the “College of Business” on 04/16/15, she wanted me to know how happy she was to have Eugene Pittman working in the building, she said that he is very polite, helpful and is doing a good job in Todd Addition.

P. Berger

KUDOS

I wanted to send you a happy message!! Terri (Brunton) our custodian has a lot of building to clean and many restrooms. I want to congratulate her on an excellent job. Terri has worked here a long time and I feel she needs some recognition for her extra efforts and being a friendly person.

C. Hasenoehrl

Adam (Beck), our facilities look wonderful... we made a positive impression today on the congressional delegation and that would not have been the case without your kind assistance. Thank you for all of your extra time and attention to help us shine!

S. Hamada

The office staff on the first floor of Bustad would like to thank the person(s) (Angie Wilbur, Isaac Simmons, Neil Wood) that waxed the floors in our office last night – they really went out of their way and did an excellent job. Please let them know we really appreciate it.

D. Olson

Miles Pepper in the Dana Shops said "It's the cleanest it's ever been and now I can clean the old grease and oil up---thanks!" to Abby Walser, Danna Medlock and Sarah Wilson.

The campus looks beautiful for Mom's weekend and spring! You and your (Grounds Crew) staff do a great job. Your efforts are definitely contributing to my spring fever!

L. McCall

I would like to thank Nick (Lawrence) for all of his help, helping me with all my extras. It has been nice to accomplish more than just the normal. Thanks again Nick.

S. Stout

Everything looks terrific! Please pass on to the various folks (Caleb Hawkins, Signe Stolz, Bill West, Miguel De La Mora, and Craig Gray) who worked on the project (Hulbert room 405B) my appreciation.

K. Lucas

The floor crew (Angie Wilbur, Isaac Simmons and Neil Wood) did our floors last night. They look great! Please forward our thanks to them. I appreciate the quick response to our inquiry about getting our floors done during a down time in Payroll Services. Many thanks!

R. Grunewald



Special consideration and thanks to: Caleb Hawkins, Jim Vander Zanden, Craig Gray, Bill West, and Dave Stodick for the work on the Murrow ceremonial door.

J. Griffin

Hey, Just wanted to say congratulations on becoming Tree Campus USA this year. I've been to your campus twice and have always enjoyed walking around.

J. Kovolayan, Univ. of Puget Sound

Work has been completed in Jackson 54. I must say, I am impressed with the crew (Eric Sorenson and AJ Molieri) that was sent down to replace the ceiling tiles. They should be commended for leaving the area cleaner than when they arrived.

C. Mayer

Thank you (Denise Harris, Brian Kriebel, and Dan Luman) so much for doing such a great job waxing the floor in the Mailing Services area. Everyone who comes in says "WOW that looks fantastic". Some even ask if they need to wear their sunglasses it is so bright.

J. Rich

I would like to see a big thank you go through to Julie Aranzamendi and Dustin McGillic for helping me out and getting a delivery into Receiving and Delivery long after our close of business. Through phone collaboration Julie and I were able to get the proper key into Dustin's hands and he was able to unload this one shipment into our building and allow this driver to get back on the road to his next appointment.

B. Allen

The bulletin boards look great! Thanks so much! (JB Self and Lyle Branting)

L. McCall

The Facilities Services Annual Picnic!

Date: July 9, 2015

Time: 11:00 a.m. to 1 p.m.

Location: McCluskey East Parking Lot

MENU: Pulled Pork, Burgers, Brats, and Hot Dogs
Baked Beans, Salads, Dessert, chips and beverages!



LIVE BAND: "Loose on the Palouse"
Local Bluegrass Band!

**DOOR
PRIZES!**

FUN!

**GOOD
FOOD!**

CONTESTS!



The Jess Ford of Pullman Hardhat Classic



@ the Palouse Ridge Golf Club

Corporate Sponsors: Silver - Valley Electric; Silver - Skanska USA Building;
Bronze - Absher Construction Company; Bronze - Olivia Yang, AVP Facilities
Services; Bronze - Siemens Industry, Inc.

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PRIZES!**

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(A portion of the proceeds may be added to the
endowment principle.)

Date: August 1, 2015

Location: Palouse Ridge Golf Club

Time: Shotgun Start at 8 a.m.
Check-In starts at 7 a.m.

Format: Scramble



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**OR pickup an application from the Community Bulletin Board in McCluskey Shops then drop it
off with Lorrie Arrasmith in McCluskey 103.**

Facilities Services Safety Committee

Safety Question Contest for the Month of June 2015

Directions: The answer to the question below can be found in one of the chapters of the Accident Prevention Program (APP). Read the question carefully. When you think you have found the answer, you may email your answer to Lorrie Arrasmith lorriea@wsu.edu or print off this page and cut out the form on the dotted lines. You may give the form to your supervisor to send in intercampus mail to Lorrie or drop it off at her desk in room 103 of McCluskey Office building. The names of all employees who submit the correct answer will go into a hat for a drawing. Whoever's name is drawn will be able to pick out one of the monthly safety awards. This contest will be open only until 5 p.m. on June 23, 2015, so get started finding the answer now and win a nice prize!

<http://facops6/safety/APP%20Manual/Forms/AllItems.aspx>

QUESTION: APP Chapter 35 Laboratory Safety

This is a two part question:

- 1) Specific procedures for Maintenance/Construction in Laboratories are outlined in the _____
- 2) Operating Procedures for Providing Custodial Services in Laboratories include these 7 possible problems (list the possible problems).
- | | |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | |

April's Contest Answers: Chapter 3.4 Responsibilities and Compliance

Facilities Services employees are required to make themselves aware of their safety, health, and loss control responsibilities...

List 5 of the 22 items that Facilities Services Employees are responsible for:

Employees will:

Be expected to comply with all safety rules, regulations, and policies which are applicable to their work.

Review, understand, and follow the accident prevention program.

Strive to make all work environments and operations safe.

Report for work in good physical and mental condition to safely carry out assigned duties. Maintain mental and physical health conducive to working safely.

Keep all work areas clean and free of debris and obstacles.

Work safely and in such a manner as to ensure their own safety, as well as the safety of coworkers and all others.

Request help when unsure of how to perform any task safely.

Correct unsafe acts or conditions within the scope of immediate work.

Replace or repair safety precautions removed or altered before leaving work area.

Report observed safety and health violations, suspected violations, and anticipated hazards to his or her immediate supervisor immediately upon observation or detection. If such reported conditions are not subsequently corrected, the employee is to report the failed correction to the Director or Manager for further action.

Avail themselves of University, Facilities Services, and industry-sponsored safety training.

Proactively and constructively participate in all safety training.

Pass verification testing in all mandatory safety training prior to performing work task.

Use and maintain all PPE and safety devices provided.

Maintain and properly use all tools under his or her control.

Follow all safety rules, including WSU and DOSH regulations.

Provide fellow employees with help in implementing safety procedures and complying with safety requirements.

Not interfere with another employee's use of any safety device or safeguard.

Not interfere with or modify safe methods and techniques adopted for the workplace.

Not use intoxicating beverages or narcotics in or around the workplace or enter the workplace while under the influence of intoxicating beverages or narcotics.

Assess results of their actions on the entire workplace.

Report any safety problems with tool crib items to the tool crib personnel immediately.