

Controls SW Group Meeting

October 10, 2024

Agenda

1. Machine & Schedule Update
2. Kubernetes training recap
- *Yekta Yazar*

T. Summers

Maintenance Schedule

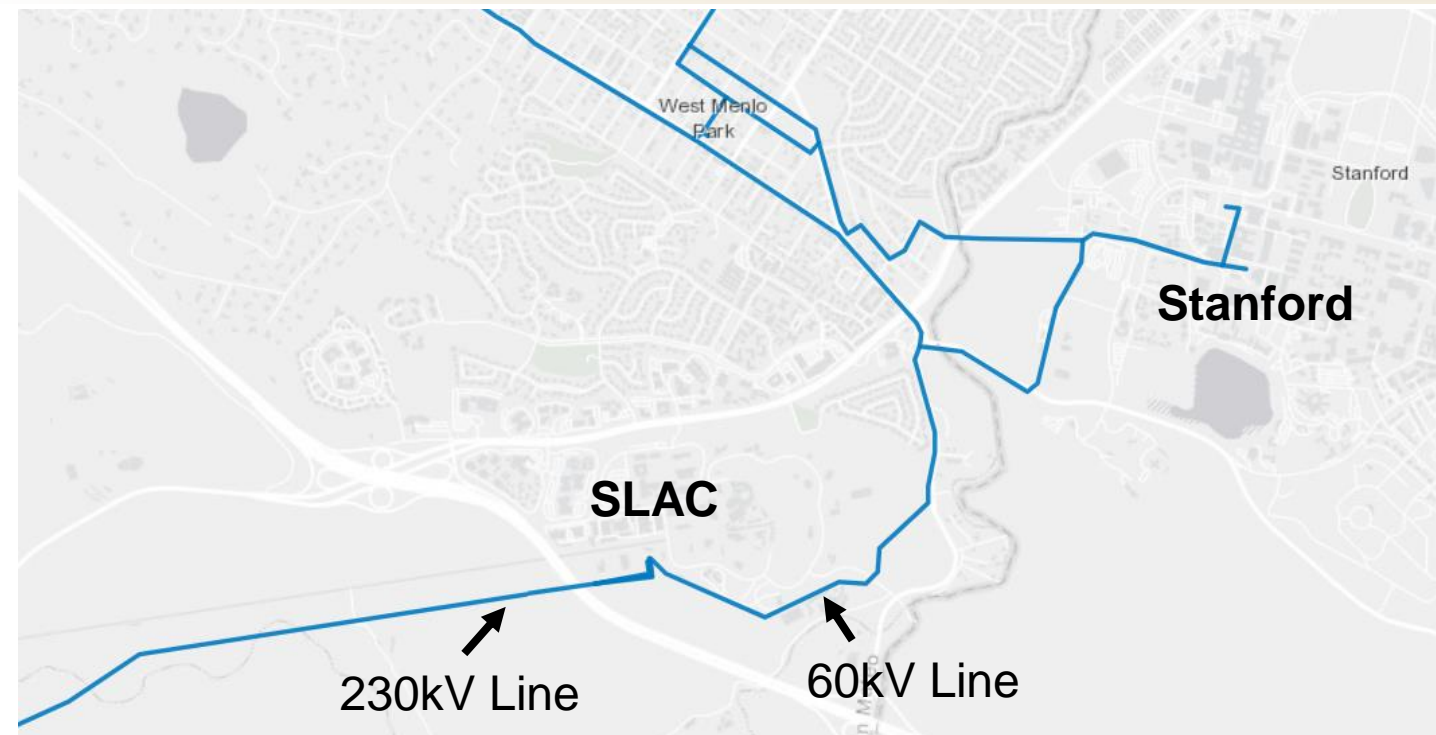
- All three linacs back in user delivery mode
- This week's short PAMM has concluded – thank you for closing up your CATER jobs
- The next LAF (all linac) PAMM is the week after next
 - Next PAMM is 3 days long, starts Monday

837	12/21/2024	01/01/2025	All Accelerators	PAMM	Winter downtime
836	12/16/2024	12/21/2024	LCLS	PAMM	BTH open during PPS certification
835	12/11/2024	12/11/2024	SC_Linac_MD	POMM	Linac West POMM
834	12/03/2024	12/05/2024	AOSD LCLS	PAMM	Linac east + downstream 1 day PAMM, Linac west & facet 2.5 day PAMM (bucket closes 11/27 EOB)
833	11/27/2024	11/27/2024	LCLS	POMM	Linac East & BSY POMM
832	11/18/2024	11/20/2024	All Accelerators	PAMM	Linac East+BSY 1.5 days, rest 2.5 day pamm (bucket closes 11/13 EOB)
831	11/13/2024	11/13/2024	SC_Linac_MD	POMM	Linac West POMM
830	11/05/2024	11/07/2024	All Accelerators	PAMM	LCLS-NC+downstream 1 day, LCLS-SC & FACET 2.5 day PAMM (bucket closes 10/30 EOB)
829	10/30/2024	10/30/2024	LCLS	POMM	Linac east + BSY POMM
828	10/21/2024	10/23/2024	All Accelerators	PAMM	LCLS-SC, FACET-II, LCLS-NC and downstream (bucket closes 10/16 EOB)

Calendar View of Activities

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09/29/2024 <ul style="list-style-type: none"> LCLS NC Users 	09/30/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II BAS SSRL/SPEAR Cathode Swap – LINAC Search 	10/01/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC BAS & Startup SSRL/SPEAR Injector AP 	10/02/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Startup SSRL/SPEAR Ring BAS NLCTA – Electrical Incident involving Rodent 	10/03/2024 <ul style="list-style-type: none"> LCLS NC POMM/MD RSY Search FACET II Startup LCLS SC Startup SSRL/SPEAR RF Commissioning 	10/04/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Startup SSRL/SPEAR RF Commissioning 	10/05/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Startup
10/06/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Startup 	10/07/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Startup SPEAR AP 	10/08/2024 <ul style="list-style-type: none"> LCLS NC PAMM FACET II PAMM LCLS SC PAMM SPEAR AP 	10/09/2024 <ul style="list-style-type: none"> LCLS NC MD FACET II PAMM/Recovery LCLS SC PAMM SPEAR AP 	10/10/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC PAMM Recovery SPEAR AP 	10/11/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC MD/Commissioning SPEAR AP 	10/12/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC MD/Commissioning SPEAR AP
10/13/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC MD/Commissioning SPEAR AP 	10/14/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Program SSRL BL Commissioning PG&E 60kV Transmission Line work 60kV BRK#3 Repair 	10/15/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Program SSRL BL Commissioning 60kV BRK#3 Repair 	10/16/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II POMM LCLS SC Program SSRL BL Commissioning UED - Commissioning 60kV BRK#3 Repair 	10/17/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Program SSRL BL Commissioning UED Commissioning 	10/18/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Program SSRL BL Commissioning UED - Commissioning South Gallery Road blocked S26-S29 for <u>microsurfacing</u> – All Day 	10/19/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Startup LCLS SC Program SSRL Operations South Gallery Road blocked S26-S29 for road hardening – All Day

PG&E 60kV Transmission Line Work - 10/14/2024



Scope of Work:

- PG&E scheduled work on their Jefferson-Stanford Line

Impact of Work:

- SLAC Site will not have the 60kV Power Source available during planned work duration

Ref: California Energy Commission

[California Electric Transmission Lines | California Electric Transmission Lines | California Energy Commission GIS Open Data \(arcgis.com\)](#)

Duration: ~11 hours

Proposed: Oct 14th 6am-5pm

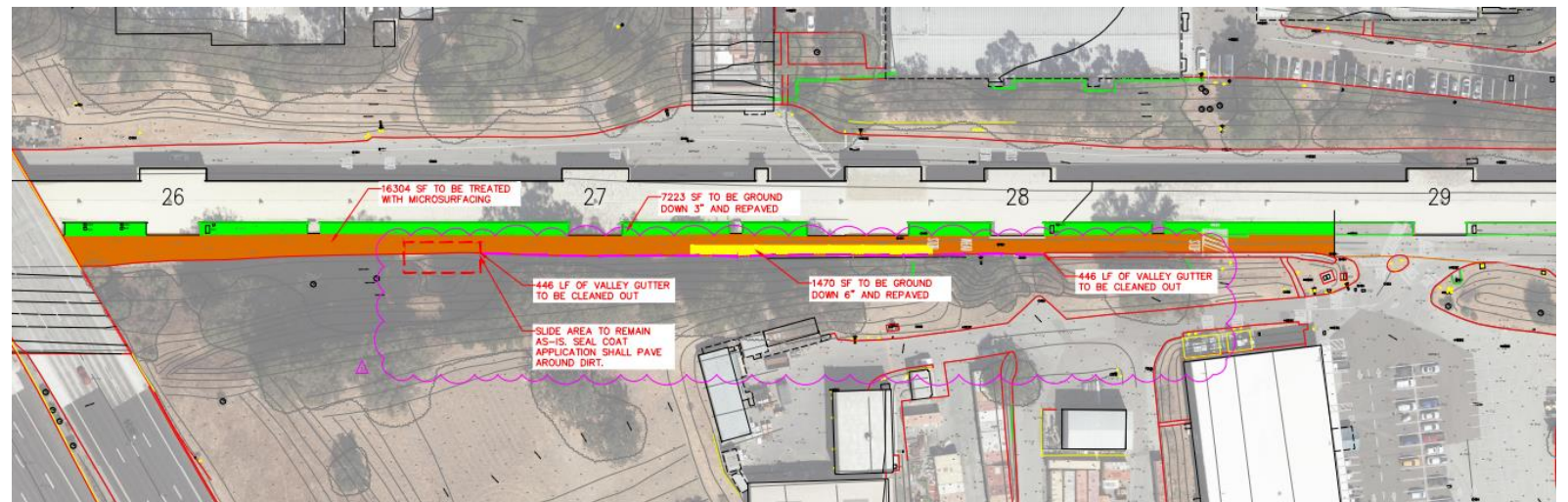
South Gallery Road Paving

Scope of Work:

- South Side of the Gallery Road S26 to S29
- Storm Drain Gutter cleaning - **planning 09/16 all day – Completed!**
- Asphalt Concrete Grinding and paving – **planning 09/17 all day – Completed!**
- Final Repaving – **planning 09/19 all day – Completed!**
- Microsurfacing (slurry seal of polymer asphalt) – **Planning 10/18**
- Road Striping – **Planning 10/31**

Impacts Access:

- Traffic must use North Gallery Road **10/18**
- South Gallery Road – traffic control measures during Road Striping **10/31**



PM: Kai Shibley

Winter Closure 2024/2025 – coming soon!

Winter closure work approvals and key dates

By John Connolly, Deputy Director for Operations & Chief Operating Officer

EMAIL | PRINT

October 25, 2023



(Olivier Bonin/SLAC National Accelerator Laboratory)

Editor's note: This article may be updated with the latest closure information as it becomes available, and on Nov. 6, the text was updated to clarify that green work done remotely does not need to be approved through this process; approvals are required for all on-site work. In addition, SLACafe, Verve and ARCAS will remain closed through Monday, Jan. 8; they will reopen on Tuesday, Jan. 9.

This year, SLAC's winter closure will begin at 6 p.m. on Wednesday, Dec. 20, 2023, and end at 6 a.m. on Thursday, Jan. 4, 2024.

The closure is intended for employees to take time off and enjoy the holidays, and there is a concerted effort ongoing to minimize the work performed during this period.

However, some employees may be required to work in support of activities that are essential to the mission of the laboratory that cannot be rescheduled or conducted outside of the winter closure period.

Criteria for work performed over winter closure

Work should only be performed during winter closure if it is mission critical and cannot be rescheduled outside of the winter closure period without significant impact to mission or continuity of operations. In addition, a full complement of necessary resources, including support resources and oversight, must be on site and able to perform and support the work.

Work activities that do not meet these criteria must wait until normal operations resume on Jan. 4, 2024.

Required work approvals

Please note that **all work** to be done on site during winter closure - whether high-risk, high-consequence, or categorized as red, yellow or green - must be approved.

- Work Request Forms *in development*
- High Risk/High Consequence Forms – *electronic now*



The 2024 winter closure dates have been confirmed by Stanford, starting on Monday, Dec. 23, 2024, through Friday, Jan. 3, 2025.

Most areas of the lab will shut down at the close of business on Friday, Dec. 20, 2024, and most will start back up on Monday, Jan. 6, 2025.

University holidays

The following three dates will be paid university holidays:

- Tuesday, Dec. 24, 2024
- Wednesday, Dec. 25, 2024
- Wednesday, Jan. 1, 2025

LCLS/FACET II/SSRL/UED Schedules 2024

		Nov-24														Dec-24																																														
		M				M				M				M				M				M																																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
SC	Day																																																									Winter Closure				
	Night																																																													
DASEL																																																														
NC	Day																																																													
	Night																																																													
FACET II																																																														
SSRL																																																														
UED/ASTA																																																														
NLCTA																																																														
PPS Testing																																																														
F&O																																																														

LCLS/FACET II/SSRL/UED Schedules 2025

		Jan-25														Feb-25																																												
		M					M					M				M				M					M																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
SC	Day Night	[Black Block]					[Grey]					SC Beam Startup				[Light Blue]				[Light Blue]				[Light Blue]					[Light Blue]																															
DASEL	[Grey]						[Dark Blue]				[Dark Blue]				PAMM					[Dark Blue]				[Dark Blue]																																				
NC	Day Night						[Grey]					Recovery & NC Beam Startup				[Light Blue]				[Light Blue]				PAMM					[Light Blue]																															
FACET II	[Grey]						FACET II Beam Startup				[Yellow]				[Yellow]				PAMM					[Yellow]																																				
SSRL	[Grey]						AP	BL	[Cyan]			PAMM/AP				[Cyan]				AP	[Cyan]			PAMM/AP																																				
UED/ASTA	[Purple Hatched]						Screen	Raja			Marotzke				Stoica				Kang				Zuerch																																					
NLCTA	[Green Hatched]						[Green]																																																					
PPS Testing	LINAC East/BSY																																																											
F&O	SW-275 Repair-60kV																																																											

LAF PAMM Schedules: https://slac.sharepoint.com/sites/AOSD/aosd_maint/SiteAssets/Pages/default/SLAC%20LAF

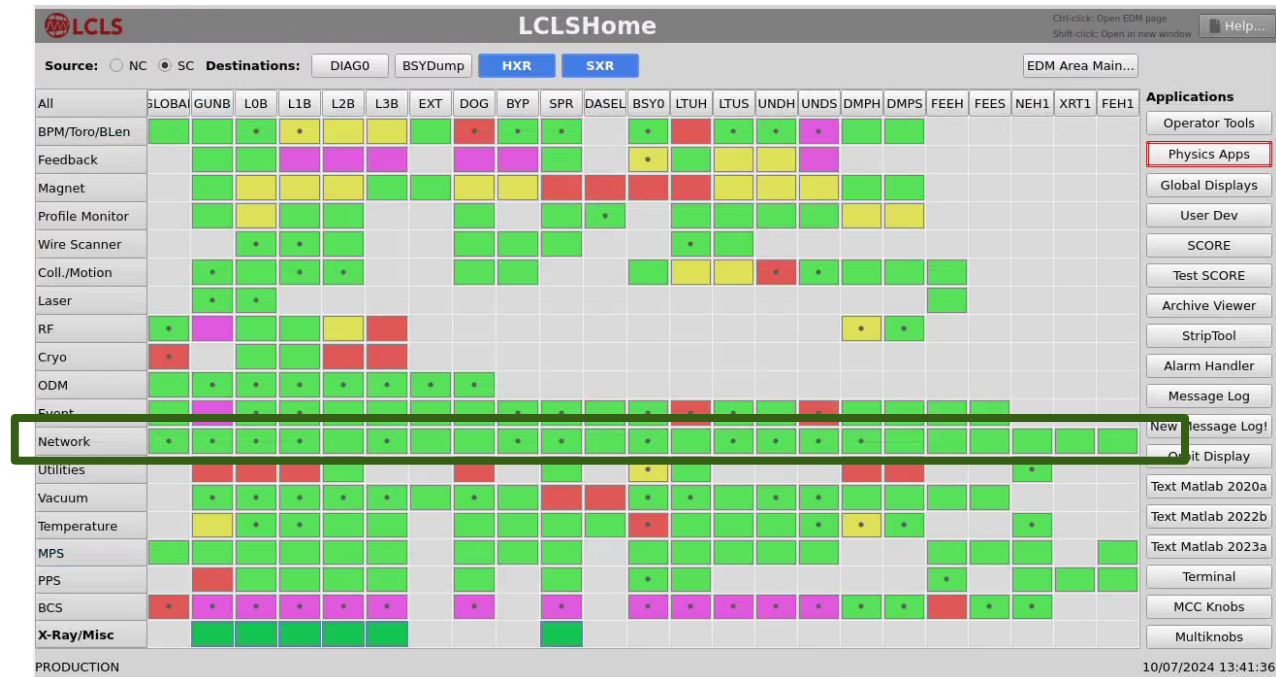
General announcements

- Benefits Open Enrollment from Oct. 21 – Nov. 8
- Today at approximately 12:05 p.m., Stanford University will conduct its annual test of the campus AlertSU system. Alert messages will be sent via text message and email to the Stanford community. It will also post to the University emergency website, Public Safety website and the Stanford mobile app.
 - The outdoor warning system will be activated. If you are outside, you should expect to hear an audible tone for approximately 30 seconds, followed by a verbal message from each of the 7 sirens at various campus locations. The sirens will be audible throughout the campus and may also be heard in parts of the surrounding communities, including Palo Alto, Menlo Park and Los Altos.
- Git slaclab will be moving to Github Enterprise. PCDS is coordinating, with a possible transition date as soon as 10/17. See <https://confluence.slac.stanford.edu/display/PCDS/Github+Enterprise+Migration>
- Finally - Happy New (fiscal) Year! Please try saving your timesheet today and let your supervisor know if any codes don't work



LCLSHOME getting better!

- To help the ACR operators more efficiently identify real issues in the accelerator we need to clear out all the disconnected statuses and alarms that don't actually impact the machine.
 - We are responsible for resolving the purple statuses
 - Area physicists have been tasked with fixing the red/yellow alarms that persist when the machine is running
 - We will be working with Ops and Physicists to start QA'ing the bypassed alarms
- Notice the Network Row is mostly green!
The only alarms are now real :)
 - There are only about 12 things bypassed to make this happen, all tracked in my cater 172731
 - Thank you to everyone who had to suffer with my complaining about this - Operations appreciated it!



Welcome Jesse Bellister!



- Originally from right here in the bay area
- Went to SLAC once a week as part of a high school program to shadow a physicist working on the next linear collider project
- Graduated from Harvey Mudd in 2009 with a Bachelor's degree in Computer Science and Economics
- Have worked at SalesGenius, LinkedIn, Greencave Games, SLAC - TID
- One of the best Zelda 1 randomizer players in the world
- **Just happy to be here :)**

Special Presentation

Kubernetes @ SLAC – Yekta Yazar

What it is, how and where it will be used, and what we need to know to about it.