

JLF Community Feedback and Discussion
Wed. 11:30 am – 12:30 pm

New Committee

Chair Ben Ofori-Okai (SLAC)

Vice Chair Nick Beier (U. Alberta)

Past Chair Tom White (U. Nevada, Reno)

Titan Rep. Chris McGuffey (GA)

Comet Rep. Andrew Longman (LLNL)

Janus Rep. Gaia Righi (LLNL)

Bella Pagano Student Rep. (U. Texas)

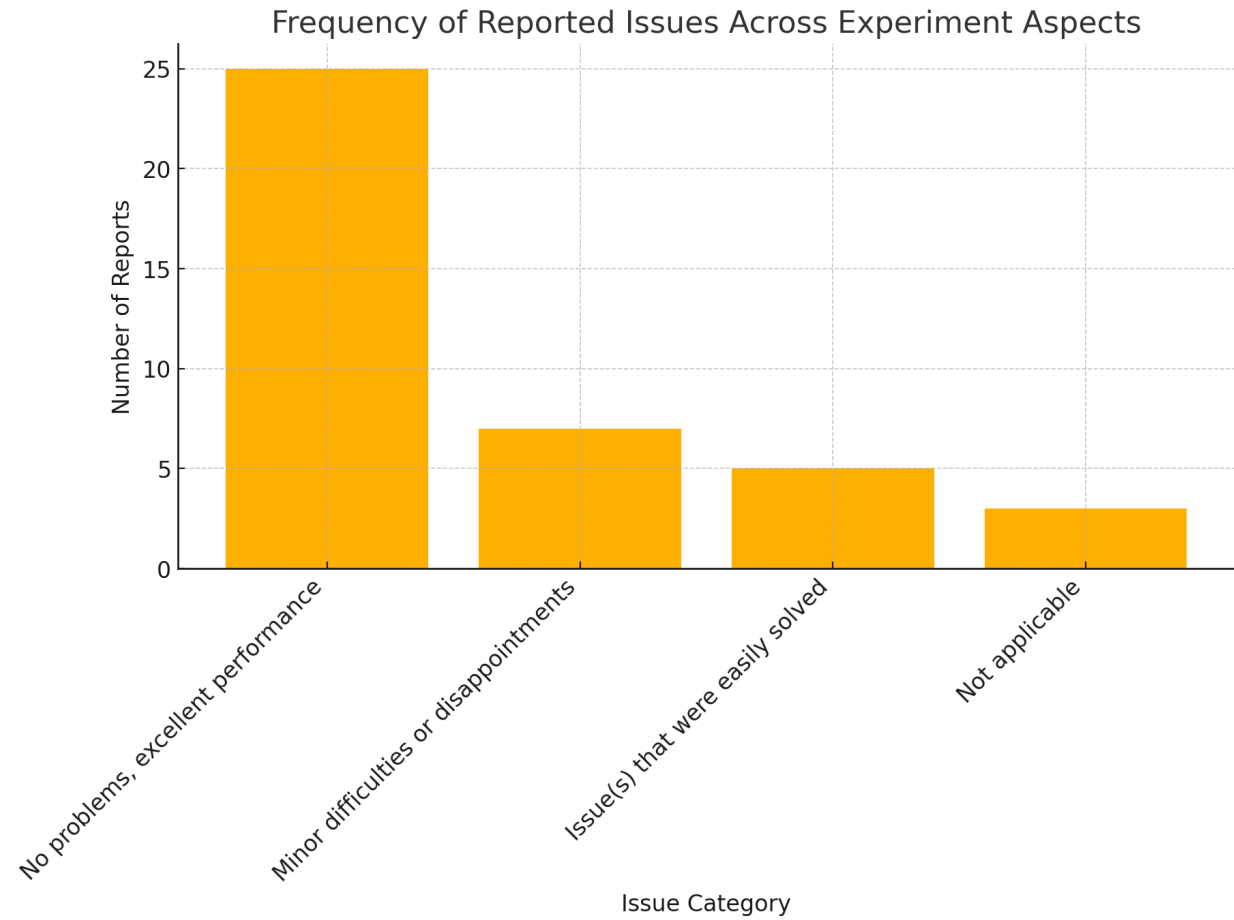
Lab. Rep. Jackson Williams (LLNL)



Were there problems encountered in the following aspects of the experiment time? *

	Significant difficulties or disappointments	Minor difficulties or disappointments	Issue(s) that were easily solved	No problems, excellent performance	Not applicable
Laser	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Target chamber (vacuum, ports, feedthroughs)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Facility optics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Facility diagnostics and equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
User-provided diagnostics and equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Targets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experimental design/plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Personal or facility safety	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- >80% of experiments reported they achieved their primary objective(s)
- Many staff mentioned by name for going “above and beyond”
- No “significant difficulties or disappointments”



Breakdown by area: User's Diagnostics and Equipment

0/5 teams experienced difficulties

Breakdown by area: Targets

0/5 teams experienced difficulties

Breakdown by area: Safety

0/5 teams experienced difficulties

Breakdown by area: Target Chamber

0/5 teams experienced difficulties

Breakdown by area: Facility Optics

0/5 teams experienced difficulties

Breakdown by area: Laser

3/5 teams experienced difficulties

Comet probe line needed to be realigned, which the facility completed successfully.

Titan: Additional prepulse characterization would be very beneficial for our experiment

Breakdown by area: Facility Diagnostics and Equipment

3/5 teams experienced difficulties

More diagnostics (cameras, FROG) on the Comet beam line would be advisable to help with the spatial and temporal mode and avoid damage.

The COMET streak camera needed to be used, which required a phone call to a staff member on medical leave.

Motorized target positioner and cameras (vacuum compatible) would be beneficial.

We had a hard time with the Thomson Parabola. Often the image plates had large areas that were exposed (possible x-rays?), but we also got some excellent shots with it. It's unclear to us why some shots worked well where others generated a large background.

We used the diagnostics from the facility which created an issue getting experimental data from the facility computers. I get the feeling this is typically easier for LLNL employees but was difficult and took time to get our experimental data from the facility.

Breakdown by area: Experimental Design and Plan

1/5 teams experienced difficulties

Continuing to provide written procedures, especially for complex experiments.

If there could be dedicated staff to help the users at all times.

Having clear schedules of facility work made available (no-shot days, limited staff availability, etc.)

The timing of the experiment was difficult. As the experimental PI, it was very difficult to leave classes for extended periods to run the experiment.

Communication on the expected status of the system could be improved. Specific to our experiment, we needed the split pulse with spatial and temporal overlap. Originally we anticipated this would be available upon arrival but required a lot of time to get to the state we needed. This was likely beyond anyone's control based on extenuating circumstances.

Breakdown by area: Experimental Design and Plan

1/5 teams experienced difficulties

For new users, collaborations with former users would have been a big help for us. We were able to achieve meaningful results, but the first two weeks were a crash course coming up to speed with the facility. Ultimately, we would have greatly benefited from collaborating with previous users (a fault that was 100% our own).

Housing for out of state team was very expensive.

Recognized Staff and Positive Feedback



“Rick Cross was fantastic during our entire run!”

“Rick helped us most of the days and his knowledge and experience were critical for us to achieving our goals.”

“Gaia Righi was superb!!”

“All the staff that help us provided excellent support (Rick, Nicky, Jonathan & Stephen)”

“Stephen Maricle went above and beyond in re-aligning the probe line and should be recognized for exceptional support.

Updates/notes from last year

- 1 - Single allocation through LaserNetUS is a good thing. Saves times for proposal writing to have streamlined process for proposal submissions.

- 2 - Motor controls throughout the facility need to be improved
 - Need encoded motors that come back to the same position.
 - Need motors that can be controlled remotely. Control station for motors that is common to all target areas would be great
 - External control station for COMET would save time for sweeping (can control things without having to re-enter.
 - Ask users to have specific list of requested motors/controls (eg stages, motorized tip/tilt, ect)

- 3 - Need focal spot diagnostic at TCC for titan
 - Should be able to use it for both F/3 and F/10

- 4 - Need affordable housing for external teams, expecially students. LLNL-leased “apartment” or guest house model.

- 5 - Put together wish list for user requests, look at it next year, and see if it was implemented. Will help the facility be accountable. Request specifics (stages, etc).

Updates from last year

6 - Website updates

- Having regular up to date information about capabilities so that users are not surprised when they arrive at the facility.
- Brent's slides on the facility would be good to have on website.
- Suggestion to do 1 week/year calibration shots, and update on website. Regular measurements made.
- Have master calendar of experiments, PI, title, etc. Similar to what LCLS does.

7 - Would be nice to have clarity on what diagnostics are available (eg. Thomson parabola, etc) so that users can plan what to bring to the experiments (discuss this in pre reviews).

- Coordinate with LaserNetUS diagnostics program.
- Coordinate with Harry McLean, who is custodian of diagnostics
- Maintain list of diagnostics at JLF with calibration, documentation, reference, publications.

8 - Can grad students be first time users

- Look into process to allow them to get trained and supervised to do their experiments safely
- In UK there is TAO around for grad students.
- LaserNetUS allows students to be the PIs, JLF should support this
- Facility should provide that training/supervision

Updates from last year

9- Suggestion to have LaserNetUS support training of students by sending them to experiments.

10 - How do internal programs get access to JLF? Will there be an internal call?

- We're looking into this, after seeing the results of the JLF allocations through LaserNetUS, we'll do a programmatic assessment of facility needs.


11- Database of laser parameters. Available for users

12 - Question from Aidan: any concerns about safety? How can we improve?

- Getting state of the art dosimeters at the facility to get read of does after a shot is taken on Titan.
- Safety of users and staff is the most important thing at JLF/LLNL.
- Add safety feedback question on user feedback form



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- Non-Equilibrium Systems