



April 7, 2023

Hello Nanofab Users and PIs:

Here are the ASRC Nanofab lab updates for this week:

ICP-Fluorine Etcher - Down for Repair

The RF power generator has failed and needs replacement. Oxford Instruments indicates there are supply chain issues that will delay the arrival of the part and the repair for at least another 2 weeks. We apologize for this delay, and do know how inconvenient this is. We are working with Oxford Instruments to push this along as fast as we can and will continue to post updates in Slack.

ICP-Chlorine Etcher - Down for Repair

The Chlorine ICP Etcher load arm issue was resolved, and the CM gauge was replaced. However during the repair a relay was damaged. We are hoping that this part will arrive next week and the engineer can return to finish the repair. We will post updates on Slack.

AJA Metal E-Beam Evaporator

1. The load arm was replaced, which should make for smoother loading. Please make certain to clearly visualize the load and unload process and let staff know of any issues.
2. The load lock gate valve was repaired, and the tool is currently pumping down and should be available for use again this Sunday.
3. All materials are filled and a spacer has been placed under the silver (Ag) crucible to help with evaporation power. Those who use silver, please make certain to fill out the log book so we can monitor if there are any changes.

Reminder on operation of the evaporator: The only manual operation should be the opening and shutting of the substrate shutter, as well as the control of the power. The Ebeam controller should always be operated in

automatic mode and the beam position should only be moved by staff. If you have any issues or concerns, we are happy to go over proper operation with you.

Thank You! For Paper Summaries

Thank you to all who sent us summaries of the research you conducted on the Elionix tools. This was a big help, and it is much appreciated. Meanwhile we are requesting that you remember to acknowledge the ASRC nanofabrication facility in your publication and let us know about exciting and new publications that utilize devices made in the facility.

This concludes the ASRC Nanofab updates. Have a great weekend!

Nanofab Staff

