

# NANOFABRICATION FACILITY

ADVANCED SCIENCE RESEARCH CENTER



May 15, 2024

Hello Nanofab Users and Pls:

Here are the ASRC Nanofabrication Facility updates for May:

## Nanofab Research Showcase -- October 17, 2024

Get excited for the launch of our first Research Showcase Day! This will be a great opportunity to celebrate the achievements and advancements within our nanofabrication research community. The first Research Showcase Day will take place on **October 17, 2024** at the ASRC. The event will not only showcase the remarkable contributions of our facility users, but also provide a platform for you to share your invaluable insights and experiences. Additionally, it will be an annual day to socialize, network, and meet those using the same labs and instrumentation.

## Metal E-beam Evaporation Maintenance

We will be taking the Metal E-Beam evaporator off line for 7 days from May 20th - May 27th to be able to thoroughly clean the interior of the tool. This will prevent flakes from disturbing the operation of the e-beam emitter and the operation of the gate valves. Please plan accordingly. The organic evaporator is still on line.

## Elionix 50keV

The 50keV Elionix gun change went without issue in April. However, there were subsequent issues with the height sensor oscilloscope that have now been resolved. The tool is now fully operational for all standard currents.

## RIE and ICP Etchers

- The HBr, BCl<sub>3</sub> and Cl<sub>2</sub> should be back online by the end of this week. There are still a few adjustments to make. Pay attention to Slack to find when these are available.
- At this point if you have not submitted an [etch request form](#), you can expect to lose access.
- Ignore tolerance should never be activated and has been removed from all recipes. If you need this for your process, please speak to Emma first
- Note that if you ever see arcing in the main chamber you should first try to stop the plasma process or jump to the next non plasma step. If this fails to stop the arcing, then this warrants use of the EMO button.
- Be sure to check and follow the #icp\_rie slack channel for other important updates

## Acknowledgements

Please 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.

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This concludes the ASRC Nanofab updates for May 15th. Enjoy the rest of your week and stay dry!

Nanofab Staff