

AUGUST 2023



Tel Aviv University Center
for Nanoscience and
Nanotechnology



TAU.nano – Monthly

HIGHLIGHTS

- A training session for new users is scheduled for the first week of every month. To register, please get in touch with Dafna Meltser at dafnameltser@mail.tau.ac.il. You can find the guidelines for new users at the following link: <https://nano.tau.ac.il/mncf/new-user>.
- A safety reminder : During the summer, it is still necessary to wear closed-toe shoes in all cleanrooms.
- We have implemented a new version of Bookitlab. We value your feedback on this update.
- Two new AFM systems have been recently installed. They will be available for training and usage in approximately two months.
- Apreo 2S LoVac high resolution scanning electron microscope (HR-SEM) with SPARC cathodoluminescence (CL) system is now available for conducting your experiments.
- Talos TEM installation was completed at the end of Q1'23, with the first service session being conducted on 30 March.
- Spectra TEM installation, which started at the beginning of June, is in due progress. The main body of the instrument has been successfully re-assembled and is moving forward to the next phase, that of achieving the electron beam.

Nano Staff

- We are happy welcome Rami Gabay to our team, Rami is in the role of the safety and facilities owner of our upcoming new NanoCenter. In his previous role for the past 17 years, Rami was responsible for the safety protocols, new users training, facilities and day2day clean room operations at the Jerusalem nano center.
- Roy Davidi made the decision to start a new professional journey, Nastya will regain full ownership of the ELAS system. Alex Gladkikh will immediately take over the ownership of the FIB lab until a permanent lab owner is recruited. Alex Lahav will remain dedicated to serving the users on the FIB.
- Exciting news! We are actively seeking an outstanding individual to join our team as Electron and Ion Beam Microscopes specialist. For more details about this opportunity, please visit <https://nano.tau.ac.il/open-positions-nano>.



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Clean room and labs update

- PECVD is operational. Silane gas has been received and integrated into the system, and all associated recipes have been successfully tested. The tool is now fully prepared for utilization.
- VST nano is now functional following the repair of the power supply.
- Vinci Evaporator- the replacement part has arrived and been installed. However, during the calibration test, several issues were encountered that require further investigation. The matter is currently being evaluated by the vendor. We will update once we have more data.
- Versaline is waiting for a new controller, which is estimated to arrive this week.
- Sputter targets are being replaced on a weekly basis upon request. If you have any specific requests, please contact Sergio B. at csebta@tauex.tau.ac.il. You can stay updated on the materials by following the Bookitlab Calendar.

New Building

- Our new Nano Building construction is progressing rapidly. The foundational and structural work has been completed, and we have now shifted our focus to the construction of the Nanocenter clean room and labs on the ground floor, as well as the installation of researchers' labs on the first and second floors.
- One of our current major milestones is the Nanocenter Tool Install bid release. As we move forward, this project continues to reveal its complexity and beauty. We are facing various challenges, but the project team on site, along with the collaborative efforts of the NanoCenter staff, is diligently working every day to resolve these issues and ensure progress.
- While the timeline is not yet finalized, the estimated completion dates are around Nov'23 for the first and second floors, and January'24 for the Clean room build. Each day, we walk onto the site with excitement and pride, fully appreciating the magnitude and significance of this amazing project.



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