Kavli Nanolab Delft
Enabling nanodevice fabrication

Dear cleanroom user,

This is the 27th edition of **Kavli Nanolab News**. In this issue you can find news on plans, new procedures and investments.

Maintenance week 29 November – 3 December 2021

As usual, the maintenance week will be in week 48, November 29th , 7:00 AM - December 3rd , 17:00 PM. During this week cleanroom access is not allowed.

Safety Session 2022

Next year we will organize the yearly safety sessions again. Due to Covid-19 we could not organize them past year. Attending one of the safety sessions is mandatory for each cleanroom user. During this session we will refresh your knowledge about our safety rules and update you on important new safety issues. We will have 4 identical sessions in January and February, this will give you the opportunity to attend one of them. We will inform you later on possible dates and how to register.

Opening hours Kavli Nanolab

Working days: 07.00 - 22.00 (07.00-08.00 and 17.00-22.00 outside working hours regime)
Weekend: 10.00-17.00 outside working hours regime

Some Covid related measures, like keeping 1.5 meter distance, one-way traffic in the modules and corridors and other measures are withdrawn.

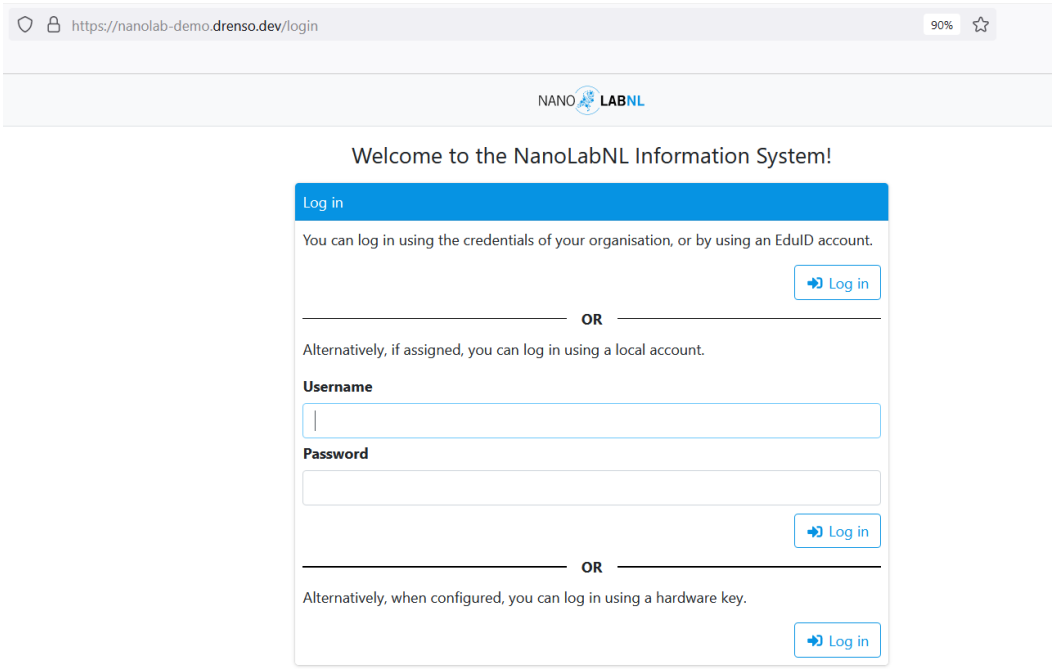
New gowning room

We have asked three companies for a quotation concerning the construction of a new TNO gowning room. Expected date for the final assignment is half November. Early December the construction should start. We expect the new gowning room to be available in March 2022 approximately.

NLIS software

During the maintenance week we will switch from the " Phoenix Living database" to a new cleanroom management system called: "NLIS" (NanoLabNL Information System). The new system has some big advantages like:

- Usable on all platforms (PC, phone, tablet)
- Database is hosted on Dutch University Servers (SurfNet)
- Data is shared between the 7 university cleanroom labs in the Netherlands
- integrated logging options, better communication options with users
-



Kavli Nanolab staff is testing the software now, and they supply the development team with comments to implement needed features with the goal to arrange a smooth transistion between LDB and NLIS.

During the maintenance week the migration of all user data to NLIS will be done. In week 49 "NLIS" will be operative. From that moment on we will stop using the "LDB".

Although we will inform you later on the whole implementation of the project we would like to inform you about some important dates:

- **Start test period users: 8 November 2021.**

  During the test period you can play with the software: Reserve equipment, sign up for intro's and tests, agree with terms and conditions etc. This testing is done in a demo environment. Till the moment of migration (week 48) the LDB database will be the leading database. During this test period we will organize Teams sessions where you can ask questions/can get an introduction.

- **Final switch from LDB to NIS: week 48 (Nov 29th till Dec 3rd.)**

New equipment, tenders, relocation equipment

Delivery ICP chlorine etcher and ICP PECVD system

Due to the delay in delivery of integrated circuits board to Oxford, the shipment of the ICP chlorine etcher and ICP PECVD systems were postponed. Expected delivery date mid-November.

Tenders

Next year we will purchase a new EBPG as a replacement for the old EBPG 5000plus. We recently started a tender procedure. We are also working on a tender document for the purchase of a new oxide etcher as a replacement for the AMS Bosch system.

Relocation of systems

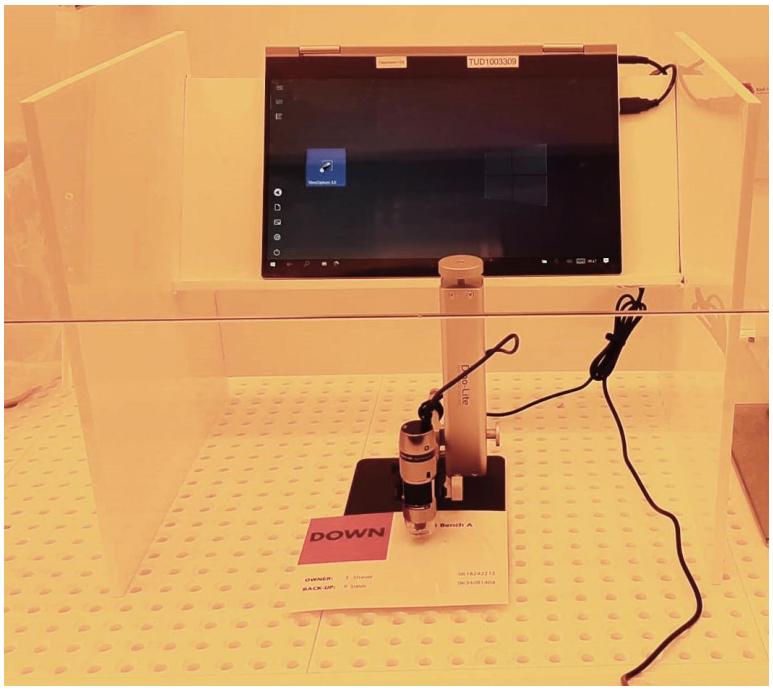
In week 44 the Mantis evaporator will be installed in module TU14 (old location EVA 450). Since the system will be under construction for a few more months, the system will not be available for users yet.

The EVA450 shall be moved to another location. The First Nano system will be moved as well in order to create space in TU 15 for the new ICP PECVD system.

Dino Lite Lift-off Microscope

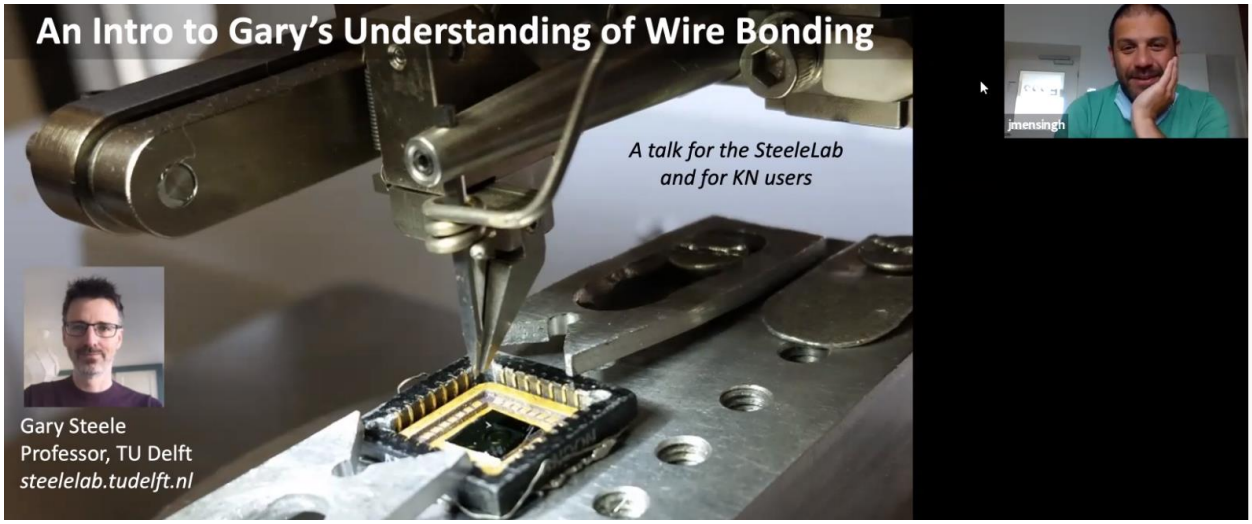
There is a new microscope installed in TU-02, especially for lift-off purposes, with a magnification factor of ~800x. It is currently being tested by a user group. After this, the status of the microscope is expected to be ‘UP’. It is operated by a Windows10 touchscreen tablet, with DinoCapture 2.0 software. Learning curve is low, and there is a lot of information available on the web.

https://www.dinolite.us/dinocapture



Wirebonder Westbond 4KE

We have started working on introduction material for the Westbond Wirebonder in TU14 ½ , to get new users up and running, as quickly as possible. (Though keep in mind, wirebonders are notoriously finicky instruments to learn to work with. No amount of knowledge can override the necessity to get hands-on experience.) Many thanks to the people who have made this possible!



If you are interested in getting access to this introduction material (as a new, or established user), please contact the machine owner.