

Use of the Electron Microscopy Facility at the IMB

Two Electron Microscopes (Philipps EM400T, Zeiss CEM902A) are in the actual use of the IMB and are provided for internal users of the IMB and - after special appointments - for external users from the "VBMF"/Zentrum Elektronenmikroskopie.

The EMs are administrated by the group of Dr. Jan Tuckermann, namely by Frau Katrin Buder. The time she is able to spend at the microscopes is in principle limited to Mondays. On these Mondays she will perform the maintenance, basic settings and organization of the repair of the microscopes. The microscopes are available during the entire week.

To allow a coordinated work by different users at the microscopes, the users have to get in contact with Jan Tuckermann and Katrin Buder before using the microscopes for the first time and register in a table-diary that is associated to the microscope.

- First users have to be introduced into the EMs and learn how to perform the settings and the handling of these microscopes.
- Probe preparations are performed by the users – after introduction - or by Katrin Buder, after discussing the extend of preparations.
- Film developments are performed by the users as well.
- To get familiar with the techniques, one member of each interested group receives an intensive training for 2 consecutive days, in order to be able to
 - a) work independent on the EMs and
 - b) transfer the knowledge to other members of the group. Appointments for the intensive courses have to be arranged with Jan Tuckermann and Katrin Buder.

If the users experience that technical problems arise with the microscopes, Katrin Buder will try to fix it, as soon she is free from experimental work.

The communication should work via phone (6134, 6135) or e-mail: buder@imb-jena.de, j.tuckermann@imb-jena.de.

We hope that the Electron Microscopes are actively used and that by this we can provide sufficient support to enable interesting research using that technique.