

Regulations

- ***Every* user has to register beforehand, without exception** (on calendar in E 18, key for NO CO 25 and platinum crucibles from the assistant). By signing up, full responsibility is taken and the rules, operating instructions and safety rules of ETH are accepted.
- **Each user has to fully report in the lab journal (with assistant) after work period is completed.**
A sample is given on the first page of the lab journal. The points to note are:

<u>readable name/institute/tel.-no. or e-mail</u>	<u>date</u>
<u>work</u> (XRF: powder pellets or glass beads, which program and how many spls) (<u>crushing</u> : jaw breaker, hydraulic press, or (which) mills and how many spls)	
<u>rock types</u> (exotica ?)	
<u>incidents/notes</u>	
<i>always do and note:</i> cleaned up, consumeables refilled, cleaned platinum crucibles and keys back	
	<u>signature</u>

Sample identification: maximum of 7 figures: 2 letters & 5 digits (e.g. FS 12345).

Other formats are not allowed and can not be considered for analysis. The data acquisition and treatment software accept only this format.

No samples will be sent to EMPA for analysis, if the following conditions are not fulfilled:

- sign-out is incomplete or missing,
 - the lab is not left in good condition,
 - the lists (forms) are not readable (print or fill out on computer).
- The devices and their **settings must not be modified.**
Working on weekends and at night requires prior approval of the assistant.
 - **Preconditions for use of the lab** are the successful visit of the course “Physikalische Methoden der Mineral- und Gesteinsanalyse” and a personal instruction by the assistant.

V.Dietrich/Assistenten

For any questions please contact the lab assistant Chiara Boschi, NO. E 18.5
(E-mail: boschi@erdw.ethz.ch, (Tel.: 27802)

4. Lab Rules

- 1. The lab has to be kept tidy and has to be completely cleaned after use. Empty trash and close vent valves in the crushing room.**
- 2. Report machine errors, missing or almost empty supplies, and broken parts to the lab assistant.**
- 3. The lab key CO 25**

The key and platinum tools are handed out to individuals who have signed up, are introduced to the protocols by the lab assistant or authorized substitute (personal authorization by Prof.V. Dietrich), and accept the lab rules and the “Reglement” (see lab book). It is never to be taken outside the building (e.g. lunch, overnight). Signed-up users accept full responsibility for the lab (both rooms). Users are held individually legally responsible for anything broken, stolen, left dirty or damaged. These responsibilities partially expire after signing of the lab book (in E 18), and handing back of Platinum and lab key. The same rules apply for use of the crushing room only.

- 4. Report missing supplies to the lab assistant.**

The following violations and non-observance of the lab rules may lead to payment of compensation to the IMP and to exclusion from any further lab work:

- 1. Scratching of crucibles and/or casting dish**
- 2. Handing the lab key over to a third person without permission/note in the lab journal**
- 3. Not reporting damages**
- 4. Not reporting damages on the machine (Perl’X3):**
 - Placing hot crucibles on polymer surfaces
 - Changing pre-valve settings of cooling water and/or pressurized air
- 5. Casting of glass beads from non-silikate materials:**
 - no metallic (esp. sulfidic) ores
 - no sulphates
 - no slags or cinders

If you plan to cast such materials, you must seek advice with the lab assistant first.
- 6. Casting of glass beads from more than 6 g total mass (powder + flux)**
- 7. Not removing beads from the casting dish.**