

Grinding laboratory charter

ISterre

GTC platform

General Information

The grinding laboratory is part of the GeoThermoChronology platform and is under the responsibility of Francis Coeur. He provides services, training and maintenance of the equipment.

Contact details

Head of the crushing laboratory

Francis Coeur 0476635903 Email: francis.coeur@univ-grenoble-alpes.fr

Technical manager of the GTC

Julien Carcaillet 0476635930 Email: julien.carcaillet@univ-grenoble-alpes.fr

Scientific manager of the GTC

Matthias Bernet 0476514075 Email: matthias.bernet@univ-grenoble-alpes.fr

Before your arrival

Before working and/or benefiting from the technical expertise of the Grinding Lab, you must:

- Read and **understand this charter**,
- Have **planned one month in advance** your needs with the person in charge (Francis Coeur). The modalities and the operational planning will be defined together,
- Have **completed the administrative aspects** of ISterre (registration, insurance, etc.) if you are a visitor, affiliated to ISterre or attached to a partner laboratory,
- Have an **internship agreement** for students or a current contract for contractors,
- Be aware of ISterre's internal regulations, emergency **numbers and contact information for the Prevention Assistants**,

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Fireman 18

General 112

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N. Findling nathaniel.findling@univ-grenoble-alpes.fr 0476514078

Opening hours and availability

This laboratory is composed of 3 spaces:

- Francis Cœur's reception office (ground floor). Occasionally, a workstation can be made available for visitors when they are working in the technical rooms.
- Wet room (1st). This room is equipped with equipment requiring the use of water: mineralogical separation table, saw, grinding machine and core drill.
- Dry room (1st floor). This room is equipped with equipment that does not require the use of water: Jaw crusher, planetary grinding, disc grinding, drying oven, sieve machine.

The **crushing laboratory is open to the public from 07:30 to 12:00 and from 13:00 to 16:00 from Monday to Friday 12:00** (Closed on Friday afternoon). Access to the spaces is strictly forbidden outside of opening hours.

The presence of Francis Cœur in the premises is mandatory for all use of the equipment. **The use of certain equipment can be done exceptionally without his physical presence, but after his agreement, a training in the use of the equipment and the strict presence of 2 persons for the equipment at risk.** See "Operation of equipment and special instructions".

Working hours and general remarks (technical problems, breakages, observations) will be recorded in a notebook. **The equipment is provided clean and will be returned clean.** Any damage resulting from improper self-service use of the equipment will be charged to the person responsible for the damage.

Organization of the laboratory

The work schedule is under the responsibility of F. Coeur in consultation with the applicants. **He and he alone organize the schedule to satisfy the requests and to answer the priorities.** Punctually, a change can take place, at his initiative, to ensure the urgencies (end of training courses, thesis or master). In case of dispute, the arbitration will be done by the scientific and technical managers of the GTC (M. Bernet and J. Carcaillet).

Operation of the equipment and special instructions

1. **Self-service: only the equipment listed below can be used in self-service after training and authorization from F. Coeur.** A form signed by the users and Francis will attest to the specific training prior to the use of the equipment and the temporary authorization of their use without the presence of F. Coeur. **The wearing of PPE (Personal Protective Equipment) is mandatory.** This equipment is available in the room and is for the exclusive use of the grinding laboratory.

- *Saw and core drill*. These equipments being machine tools, **the presence of two persons (except Francis Coeur) permanently in the "wet" room is mandatory**. The use of water spray on rotating parts is systematic.

PPE: anti-noise helmet, gloves, glasses.

- *Mineralogical separation table, grinding machine, oven and sieve*.

This equipment can be used alone only if F. Coeur is present in the grinding laboratory and after his agreement.

PPE: noise helmet, gloves, glasses,

2. **Prohibition of self-service: Some equipment cannot be used in self-service.**

- *Crusher and grinding*. These equipments are machine tools and require a perfect knowledge to reduce the risks of accidents. The presence of the applicant may be necessary to ensure the safety of the personnel. The preliminary preparation of the samples (setting with the gauge of the rocks, washing) is the responsibility of the applicant.

PPE: noise helmet, FFP3 or cartridge dust mask, glasses, DATI

Isolated Worker Alarm Devices (DATI)

The DATI, cannot be considered as sufficient to ensure the protection and the safety of the personnel. **It is a warning element but not an individual protection element.**

The contribution of the DATI is undeniable for the organization of assistance to isolated workers, but only if it is deployed within the framework of a simple and evaluated procedure defining the organization of assistance.

The mission of an isolated worker alarm device (DATI) is to transmit an alarm corresponding to a situation deemed critical by a lone worker to a person or structure responsible for triggering the rescue.

The alarm message can contain information on the position of the lone worker (GPS coordinates, beacons...) facilitating the intervention of the rescue services.

Use.

The Dati will be requested when handling alone in the premises. Initially, it will be made available exclusively to Francis (if other users work on the premises, Francis will be in the immediate vicinity).

Training in its use has been provided by the RADIOCOM sales representative. Its instructions for use are stored in the offices of F. Coeur and J. Carcaillet.

This equipment will be worn throughout the working hours. Its maintenance and recharging will be ensured by F. Coeur (at night).

A "DATI" exercise involving the entire contact chain will be carried out each year. This exercise will remind everyone of the steps to take in the event of an incident/accident. In addition, there will be a strong incentive to ensure that all contacts are up to date with their First-aid training.

The chain of contacts is as follows

- Julien Carcaillet (Platform manager, AP), 0611080921

- Jean Marc Nicole (Logistics/building manager), 0671013782
- Nathaniel Findling (AP) 0641142342

Communications

-All communications (congresses, conferences, publications or web pages) should mention the partnership with the GTC.

In the "method" section: samples preparation was carried out at the ISTerre GeoThermoChronology platform (Grenoble, France).

The technical partner will be 1/ co-authored if its participation concerns the production of data and their discussion in the scientific context or 2/ thanked in the "Acknowledgments" section: We warmly thank [name] (GeoThermoChronology Platform, ISTerre) for technical support.

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