

SELECTIVE FRAGMENTATION

New Horizons in Sample Preparation for Analytical Geochemistry

Date: Saturday, 20 June 2009, 9:00 to 17:00

Location: Davos, room to be announced

In conjunction with the 2009 Goldschmidt conference, the selfFrag AG (www.selfrag.com) will sponsor a one-day workshop.

Target of the workshop will be the usage of high voltage (HV) pulsed power as a tool in sample preparation: new research possibilities and a more reliable analysis of earth materials.

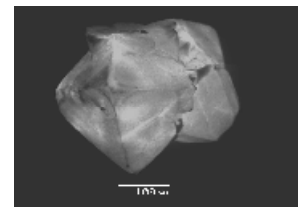
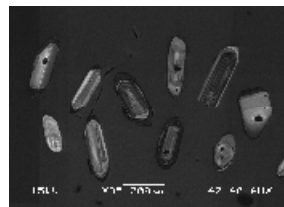
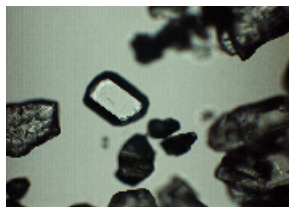
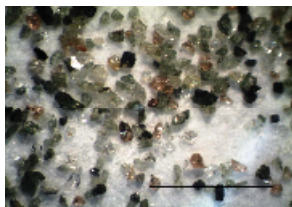
The workshop includes detailed insights to the principle, their application and need in geochemistry. The theory will be highlighted by selfFrag specialists and invited speaker.

selfFrag AG proudly presents their equipment in the second part of workshop. Here the workshop participants are invited to process their own samples to experience the practical usage and performance of the equipment.

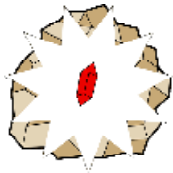


**BRING YOUR OWN SAMPLE AND
PROCESS IT DURING THE
selfFrag WORKSHOP IN DAVOS**

Background: The selfFrag principle of selective fragmentation is based on HV discharges forced into rock samples. The produced shock wave causes detachment along grain boundaries. Therefore the process is able to liberate minerals with a high degree of selectivity.



The selfFrag principle opens new horizons in mineral processing. Beside the best possible liberation of minerals, the easy handling of the process allows cross-contamination-free working.



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Workshop topics:

- (i) selfFrag specialist: basic principle & application of HV pulsed power for geological materials; fragmentation characteristics, artefacts, usage and future perspectives in earth and space science.
- (ii) Ed Roberts (Australian Scientific Instruments, Canberra Australia)
 - a. Need for good quality/quantity sample preparation for dating (SHRIMP, U-Th-He dating using ALPHACHRON).
 - b. Application examples: (i) large dating survey of zircons and the influence of cross-contamination. (ii) detrital zircon analysis for sediment provenance (iii) zircon dating in diamond exploration. (iv) Characterization of crystal shape, defects and inclusions in crystals.
- (iii) Fin Stuart (SUERC): Effects to dating of different rocks – artefacts and the influence of the selfFrag principle to sensitive dating methods.
- (iv) Urs Eggenberger/Edwin Gnos (University Berne). Industrial, space & earth science applications. Presentation of students master projects.
- (v) selfFrag Lab onsite demonstration with workshop participant samples. To be able to process all samples not more than 2 samples (max weight 1kg in total) per participant are possible.

Workshop Fee: € 40/CHF 55. Fee has to be paid at the workshop.

**Registration: Send an E-mail to selfFrag AG – contact Silvia Matter:
s.matter@selfrag.com**

Subject Heading: Registration for selfFrag Workshop, Davos 2009

Include in body of message: name, work address and e-mail address.

Please also describe samples to be processed.

A confirmation will be sent to your e-mail address

Registration deadline: 15 June 2009

Number of places limited to 40, so please register soon.

