



Associate Professor PhD, DSc  
Piotr Moska

Z2\_PR-06, version 1

Gliwice, 5 April 2022

Mr. Ivo Baron  
INSTITUTE OF ROCK STRUCTURE AND MECHANICS  
V HOLEŠOVIČKÁCH 94/41  
182 09, PRAHA , CZECH REPUBLIC

**VAT NR.: CZ67985891**

### **Price offer**

Dear Mr. Baron

Please find following details of offer for OSL dating:

	Price per sample (VAT excl.)	Number of samples	Total
Optically Stimulated Luminescence (OSL) dating for 9 samples	300 EUR	9	2700 EUR

### **Submission of samples**

Place of sample delivery:

Silesian University of Technology  
Institute of Physics – Centre for Science and Education  
Konarskiego 22B, 44-100 Gliwice

Samples can be delivered in person or by courier together with an official order, containing all contact details and data necessary for issuing an invoice.

Silesian University of Technology  
Institute of Physics – Centre for Science and Education  
Division of Geochronology and Environmental Isotopes

Konarskiego 22B, 44-100 Gliwice  
+48 32 237 22 54  
[piotr.moska@polsl.pl](mailto:piotr.moska@polsl.pl)

NIP PL631 020 07 36  
ING Bank Śląski S.A. o/Gliwice 60 1050 1230 1000 0002 0211 3056



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## **Payment and submission of the final report**

The submitter will obtain a report containing results of measurements when they are completed, usually within 9 months from delivery of samples. Payment is due upon receipt of the invoice issued and sent by the financial office of the Silesian University of Technology. **The parties agree on a payment date for November 30th 2022.**

## **Additional information:**

- Luminescence dating is a method that destroys the tested material - it is related to the extraction of pure quartz from the sample.
- After determining the equivalent dose, the pure quartz material is archived for at least 5 consecutive years.
- It should be remembered that the name of the sample from the information sheet must also appear on the material sent.
- The information sheet attached to this offer should be completed separately for each of the delivered samples and sent to the Laboratory Manager's mailbox (piotr.moska@polsl.pl).
- The dating order should contain specific information necessary to prepare internal documentation and generate the final invoice (dates, amounts, institution data necessary to issue an invoice). If it is possible, you can use the attached example: Z2\_PR-06.
- On completion of work, a handover protocol is sent along with the dating report. This protocol must be signed and sent in electronic form to the Laboratory Manager's mailbox. This protocol is necessary for the formal completion of work and issuing an invoice.
- At the customer's request, the material remaining after unpacking / preparation / measurements may be returned to the customer, but the laboratory staff should be notified of this fact at the time of delivery.

**In justified and agreed cases, the client may receive an invoice before the date of obtaining the results from dating.**

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**Principles of sampling of sediments intended for dating with the OSL method:**

- Sampling is best carried out on vertical, cleaned exposures, driving the sampler always parallel to the ground surface, the test material is best taken for steel or PVC pipes with a diameter of several centimeters (necessary condition, the pipes must be light-tight).
- Exposure of the sample to sunlight or artificial light and excessive heating of the sample should be strictly avoided. This applies to sampling and all subsequent storage and transport activities.
- The mass of the sample intended for the measurement of the equivalent dose should be such that it can be used to separate the appropriate number of grains suitable for dating. After separating them from the sample, the mass should not be less than approx. 1 g.
- Due to the measurement of sludge activity carried out in the laboratory (using a semiconductor spectrometer), if possible, please, if possible, collect the material independently to determine the annual dose, for this purpose, it can be taken from the surrounding area of the sample in the amount of about 1 kg into a transparent foil bag.
- Samples should be taken from the sediment that was formed under the conditions of exposure to sunlight. It is worth noting to try to avoid collecting material from the boundaries of two different accumulation layers, as there is a high probability that each layer has a different content of natural radioactive elements (sometimes significantly different), which translates into problematic determination of the final value of the annual dose.

Yours sincerely  
Laboratory luminescence  
dating manager

Assoc. Prof. PhD, DSc Piotr Moska

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Piotr Moska

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REGON: 000001637

Represented by: Assoc. Prof. PhD, DSc Adam Michczyński – Director of the Institute of Physics with the financial countersignature of the Rector of the Silesian University of Technology

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