

Leco

Combustion Analysis;

Total sulfur, carbon, organic carbon.

Instrument: LECO CS 744

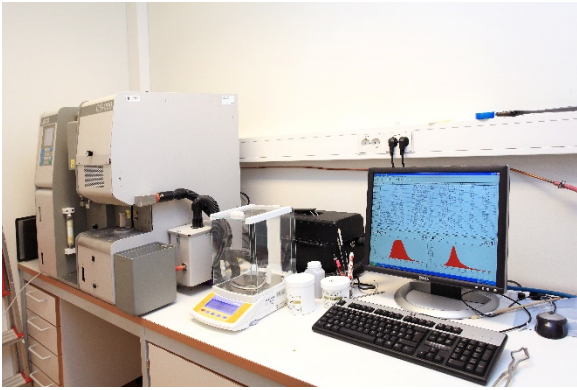


Determination of total sulfur (TS), total carbon (TC) and total organic carbon (TOC) is important for a variety of sedimentological and geochemical surveys.

The dry sample material is weighed into a combustion crucible and passed into a furnace with oxygen atmosphere and temperature 1375°C so that the sulfur is oxidized / decomposed to SO_2 , and carbon is oxidized / decomposed to CO_2 .

These gases are detected by IR measurement cells and the results come out as both mass (grams) and percentage of total sulfur, total carbon and total organic carbon in the sample.

For TOC, the sample material is first treated with HCl so that all carbonate bound (inorganic) carbon is removed. Carbon which is then determined in the residue is completely organic.



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Carbon-Sulfur analyzer

Contact person for lab:

- [Ingvild Hald](#)