

Isotope ratio Mass spectrometer

The laboratory is equipped with a ThermoScientific MAT253 IRMS for the analysis of stable isotope ratios of light elements, mainly C, N, S, O, H.

We use a Gasbench II for automated sample preparation when determining $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ of carbonates, e.g. foraminifera, as well as $\delta^{13}\text{C}$ and [DIC] of DIC in pore water or sea water. Water samples can also be analyzed for $\delta^{18}\text{O}$ and δD .

A Flash HT Plus Element Analyzer is used for sample preparation when isotope ratios of e.g. C, N in sediment samples must be determined. This analysis also provides information on elemental composition %C, %N.

Contact us if you are interested in booking analyzes on the instrument or have questions about sampling in the field for IRMS. The instrument is used by both internal and external customers.



Photo: Kai Mortensen

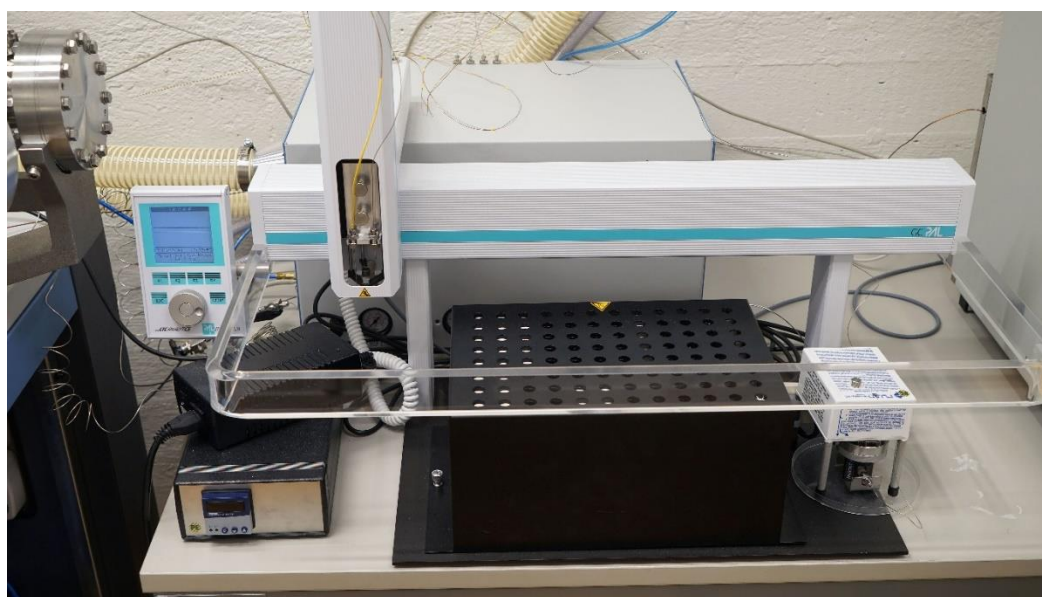


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See also the laboratory's own webpage:

[Welcome to the Stable Isotope Laboratory](#)