



## Synchrotron X-ray and IR methods in the Geosciences

This two-day short course provides an overview of the synchrotron based X-ray and IR methods available at the synchrotron radiation source ANKA at the Forschungszentrum Karlsruhe. The course will focus on applications for geo-scientific investigations.

Topics to be covered include an introduction to the synchrotron source with its beamlines and experimental stations for X-ray absorption spectroscopy, X-ray diffraction, X-ray fluorescence analysis, and Infrared Spectroscopy. Possible applications in geosciences will be discussed. Exercises at the beamlines and demonstrations of data evaluation will give the understanding on synchrotron based methods, and will encourage participants to use these methods to solve their scientific questions. Additionally, the procedure of applying for beamtime at ANKA will be explained.

**Requirements:** The course is primarily addressed to advanced-level undergraduate and graduate students but is also open to postdoctoral researchers. The official course language will be English (most of the lectures can be held in German if it turns out that all participants are capable of the German language).

- Date:** 24. - 25. October 2005
- Location:** Forschungszentrum Karlsruhe, Synchrotronstrahlungsquelle ANKA
- Registration:** until 30. September 2005
- No. of participants:** maximum 16
- Course fee:** There will be no fees, however participants will be responsible for covering their own travel and accommodation costs.  
Non-Karlsruhe-student members of DMG (Deutsche Mineralogische Gesellschaft) are eligible for travel support by the DMG in the amount of Euro 50,-.
- Accommodation:** We will help find reasonably priced accommodation.
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- Application:** Formless via e-mail to joerg.goettlicher@fgs.fzk.de