



UNIVERSITÀ DEGLI STUDI DI MILANO

Corso di Dottorato in Scienze della Terra

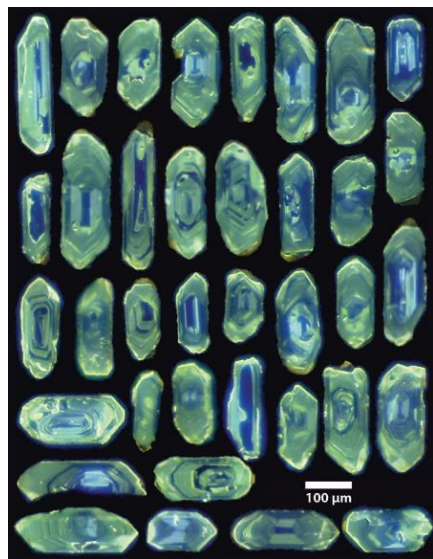


28-30 March 2022 - 3-day Short course (3 cfu, 15 hours) – hybrid format

9:00-10:30 am – coffee break – 11:00-12:30 am – lunch break – 14:00-16:00 pm

Dipartimento di Scienze della Terra “A. Desio”, via Mangiagalli 34, Milano (Aula Stoppani)

Accessory Mineral Petrochronology by Jörn-Frederik Wotzlaw



Program:

Day 1 - Principles of accessory mineral *U-Pb* geochronology

Day 2 - Principles of accessory mineral *U-series* geochronology

Day 3 - Applications to plutonic, volcanic and magmatic-hydrothermal systems



**Dr. Jörn-Frederik
Wotzlaw**

**For information please contact:
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Course description and schedule

The course is aimed at introducing the main dating methods of accessory minerals and the analytical techniques commonly utilized in geochronology. The participants will learn how to handle geochronology datasets and combine the age information with the geochemical and isotopic data. The lecturer will provide numerous examples of various applications, from the study of volcanic and plutonic rocks to the magmatic-hydrothermal systems.

Day 1 28/03/2022

Principles of accessory mineral **U-Pb** geochronology

- Analytical methods (ID-TIMS, LA-ICPMS, SIMS)
- Integrating U-Pb geochronology with trace element and isotope geochemistry
- Data interpretation and exercises

Day 2 29/03/2022

Principles of accessory mineral **U-series** geochronology

- Integrating U-series geochronology with trace element and isotope geochemistry
- Analytical methods (LA-ICPMS, SIMS)
- Data interpretation and exercises

Day 3 30/03/2022

Applications to various systems and final remarks

- Examples from plutonic, volcanic and magmatic-hydrothermal systems
- Pitfalls, assumptions and future directions

