



UNIVERSITÀ DEGLI STUDI DI MILANO



Dipartimento di Eccellenza 2018-2022

LE GEOSCIENZE PER LA SOCIETÀ: RISORSE E LORO EVOLUZIONE

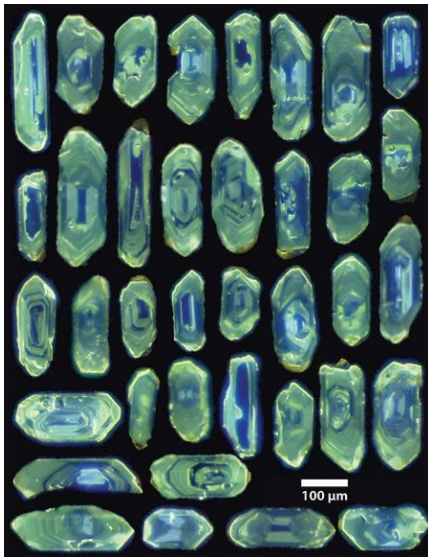
Corso di Dottorato in  
Scienze della Terra



**28-30 March 2022 - 3-day Short course (3 cfu, 15 hours) – Aula Stoppani  
Dipartimento di Scienze della Terra “A. Desio”, via Mangiagalli 34, Milano**

## 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**

**Per informazioni ed iscrizione contattare:  
Francesca Forni ([francesca.forni@unimi.it](mailto:francesca.forni@unimi.it))**

## 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

