

FIERCE Isotope short course 2023

08.03.2023, Wednesday

coffee

10.00 - 10.10 Welcome

10.10 - 10.55 Trace element analyses by ICPMS: Instrumentation and Basics, **Sonja Aulbach**

11.10 - 11:55 Basics hardware: Laser, **Wolfgang Müller**

lunch break

13.15 - 13.30 Brief presentation of sponsors

13.30 - 14.15 LA-ICPMS trace element analyses & plasma tuning, **Jan Fietzke (Kiel)**

14.30 - 15.15 Precision and accuracy of isotope ratio measurements by MC ICPMS, **Robert Anczkiewicz**

coffee break

16.30 - 17.15 *In situ* LA-ICPMS U-Pb dating of high-U minerals: Basics & applications, **Axel Gerdes**

17.30 - 19.00 General Discussions in foyer (soft drinks and more)

09.03.2023, Thursday

coffee

10.00 - 10.45 Boron isotopes and its applications, **Horst Marschall**

11.00 - 11:45 B isotope analysis by LA-MC-ICPMS, **Jan Fietzke (Kiel)**

lunch break

13.00 - 13.15 Brief presentation of sponsors

13.15 - 14.00 Li isotopes, applications to earth & cosmochemistry, **Michael Seitz / Horst Marschall**

14.15 - 15.00 PGE-Re-Os isotopes, planetary differentiation, mantle evolution, **Sonja Aulbach**

coffee break

16.15 - 17.00 Short-lived nuclides as tool in geodynamics and early earth studies, **Carsten Münker (Köln)**

17.15 - 18.30 **Poster session & Discussions in foyer** (optional: lab visits)

10.03.2023, Friday

coffee

10.00 - 10.45 Fe isotopes in Geo-/Cosmochemistry, **Dominik Hezel**

11.00 - 11:45 Sol MC-ICPMS stable isotope analyses, (Mg, W, Cd..) **Frank Wombacher (Köln)**

lunch break

13.15 - 13.45 Zinc isotopes in (palaeo)ecology, **Jeremy McCormack**

14.00 - 14.45 LA-ICPMS Th-U dating: method and application, **Marcel Guillong (Zürch)**

coffee break

16.00 - 16.50 Planning and construction of a clean air laboratory, **Wolfgang Küstner**

17.00 - 18.15 **Discussion groups:** Stable isotopes - U-Pb chronology - Plasma tuning/trace elements - Radiogenic Isotopes/isobaric interferences

18.30 - 21.00 **Dinner**

11.03.2021, Saturday

coffee

10.00 - 10.45 *In situ* (Rb-)Sr by LA-MC-ICPMS, **Wolfgang Müller**

11.00 - 11:45 Sm-Nd / Lu-Hf garnet geochronology: Rates of processes, **Robert Anczkiewicz (Krakow)**

lunch break

13.00 - 13.45 LA-ICPMS Geochronology of low-U phases: matrix effects, standardization, **Axel Gerdes**

14.00 - 14.30 *In situ* U-Pb dating of garnet, **Leo Millonig**

14.40 - 15.10 U-Pb geochronology of sulphates, **Aratz Beranoaguirre**

coffee break

15.50 - 17.00 **Lab visit group I 16.00 + group II 16.15 (Leo, Axel**)

17.15 - 18.00 AGERAp U-Pb LA-ICPMS data processing (**Richard-Albert-Axel Gerdes**)