



UNIVERSITÀ
DI PAVIA

Dottorato in Scienze della Terra e dell'Ambiente

STRUCTURE AND COMPOSITION OF THE LOWER CONTINENTAL CRUST

*Geological, petrological, geochemical and geophysical
perspectives*

Pavia, 7-10 October 2019 – Palazzo Vistarino

Monday 7th October

12.00: Registration and icebreaker party

13.45: Introduction to the School

14.00: Matthew D. Jackson (Imperial College, London) - *Mush reservoirs or magma chambers - How is magma stored in the continental crust?*

15.00: Matthew D. Jackson (Imperial College, London) - *Physical controls on magma storage, differentiation and mobilisation in the continental crust*

16:00: coffee break and poster session

16.30: Silvano Sinigoi (University of Trieste) - *Evolution of transcrustal magma(s): the case of the Sesia Magmatic System*

17.30: Bruna B. Carvalho (University of Padova) - *Fluid regime during anatexis of the deep crust: clues from melt and fluid inclusions*

18:30: end of lectures and poster session

Tuesday 8th October

08.00: departure from Palazzo Vistarino

10:00-17:30: Field trip in the Ivrea-Verbano Zone. Field leaders Silvano Sinigoi (University of Trieste) and Alberto Zanetti (Istituto di Geoscienze e Georisorse - C.N.R., Pavia)

19.30: return to Palazzo Vistarino

Wednesday 9th October

09.00: Sandra Piazzolo (University of Leeds) - *Quantitative Orientation Analysis of Rocks and Minerals: Theory and Background*

10.00: Sandra Piazzolo (University of Leeds) - *Linking quantitative Orientation Analysis of Rocks and Minerals to geodynamic processes: Examples and future applications*

11.00: coffee break and poster session

11.30: György Hetényi (University of Lausanne) - *Geophysical investigation of the lower continental crust: tools and their limitations*

12.30: lunch time

14.00: György Hetényi (University of Lausanne) - *Geophysical investigation of the lower continental crust: results and questions*

15.00: Sandra Piazzolo (University of Leeds) - *The Rheology of the Lithosphere: the importance of the Lower Crust*

16.00: coffee break and poster session



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16.30: Sandra Piazzolo (University of Leeds) - *Rheology of the Lower crust: Scenarios and Measurements*

17.30: end of lectures and poster session

19.30: Social dinner

Thursday 10th October

09.00: Thomas Zack (University of Gothenburg) - *New dating methods for investigating lower crust*

10:00: coffee break and poster session

10:30: Roberto Braga (University of Bologna) - *A complex mixture of rocks: Migmatites and their field significance*

11.30: Bernardo Cesare (University of Padova) - *Melt Inclusions in Migmatites and Granulites*

12.30: lunch time

14:00: Roberto Braga (University of Bologna) - *The Migmatite Value Chain: the lower crust evolution of the Ulten Zone*

15.00: Bernardo Cesare (University of Padova) - *Some remarks on the Composition of the Lower Crust*

16.00: end of School