



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 7<sup>th</sup> October**

12.00: Registration and icebreaker party (lunch)

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 8<sup>th</sup> October**

07:45: departure from Castello Visconteo – Piazza Castello (in front of the castle)

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 9<sup>th</sup> 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: Paolo Scardina (Agilent Technologies) - *The wild open field ahead-pushing the limits of QQQ-ICP-MS*

18.00: end of lectures and poster session

19.30: Social party at "Il Caffè all'Università" – Strada Nuova 65 (Università Centrale, Cortile dei Tassi)

#### **Thursday 10<sup>th</sup> October**

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

10:00: Antonio Langone (Institute of Geosciences and Earth Resources, CNR Pavia) - *U-Th-Pb geochronology of zircon and monazite in the lower continental crust: role of high temperature and deformation*

11.00: coffee break and poster session

11:30: Roberto Braga (University of Bologna) - *A complex mixture of rocks: Migmatites and their field significance*

12.30: lunch time

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

15:15: Roberto Braga (University of Bologna) - *The Migmatite Value Chain: the lower crust evolution of the Ulten Zone*

16.30: end of School