

Pre-conference field trip - 2
**DUNITE TO HARZBURGITES MELT CONDUITS IN THE LANZO SOUTH MANTLE PERIDOTITES
(WESTERN ALPS)**

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The Lanzo South massif is a well-preserved mantle sequence exposing a unique association of decameter-scale replacive mantle bodies considered fossilized conduits for melt migration in the upper mantle.

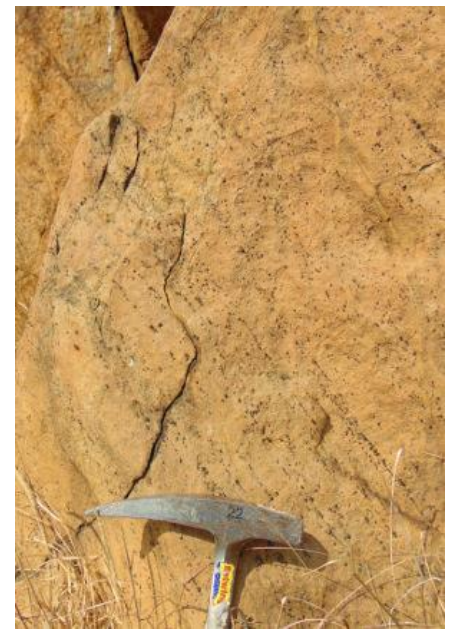
The field-trip will focus on two generations of replacive bodies formed by melts produced in a subridge setting, but having different geochemical affinities. We will examine the textural variability of these replacive rocks and the spatial relationships with their host rocks. Discussions will focus on melt extraction, melt-rock interactions and high temperature deformation.

The outcrops are easily accessible from the main roads and no particular equipment is required.





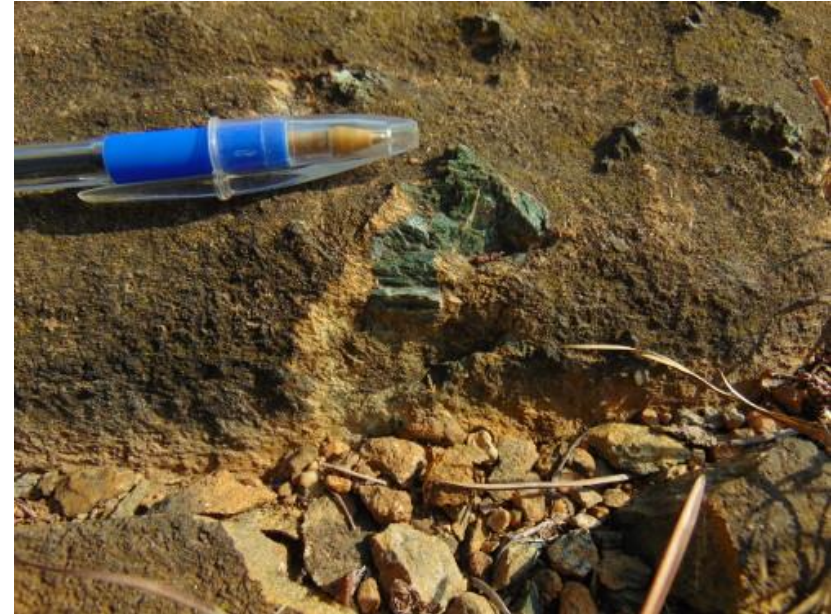
Large replacive dunite bodies formed by migration of MORB-type melts



Spinel trails in a replacive dunite



Contacts between a replacive dunite and a host rock



Large, oikocrystic clinopyroxene within a replacive harzburgite formed by ultra-depleted melts