

Summer school ASINARA 2022

'Structural analysis of granites and their surroundings'



1562



Università degli studi di Pavia
**DIPARTIMENTO DI
SCIENZE DELLA TERRA
E DELL'AMBIENTE**



PARCO NAZIONALE DELL'ASINARA
AREA MARINA PROTETTA "ISOLA DELL'ASINARA"



REGIONE AUTONOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA



with the patronage of:



Organization: *Leonardo Casini and Matteo Maino*

The Asinara Summer School (21-23 June 2022) is a 3 days onsite event supported by the University of Sassari, Regione Autonoma della Sardegna (RAS), University of Pavia, the Asinara National Park, and the Italian Group of Structural Geology (GIGS). Registration is open to 15 participants and the cost is 200 euro. The fees include accommodation (bed sheets, towels and final room cleaning included), food and beverages, and all the transfers by 4wd required during the camp. The boat transfers from and to Porto Torres (about 20 euro) are not included. The program of the school includes a set of thematic lectures and practical activities focused on field structural analysis of plutons and related contact metamorphic aureole, as well as sampling for U-Pb zircon geochronology and geochemical analysis.

The weather in the Asinara island in late June is usually hot and dry and the vegetation is typical Mediterranean scrub, so it is highly recommended to wear comfortable and robust clothes as well as hat & sunscreen. The outcrops are mostly easily accessible by dirt roads and tracks and require minimal hiking attitude.

DETAILED PROGRAM:

Day 1 (21 June 2022):

11:00 – 12:00 Lecture: **'The fabric of granites: magmatic VS sub-magmatic flow'** by Leonardo Casini

12:00 – 13:00 Lecture: **'Macroscopic structural analysis of magmatic complexes'** by Matteo Maino

14:00 – 19:00 practical: **'Structural analysis of an exhumed pluton floor'**

Day 2 (22 June 2022):

9:00 – 11:00 Lecture: **'Granites and their contact metamorphic aureole: a geochronological perspective'** by Antonio Langone

11:00 – 13:00 Lecture: **'Fieldwork strategy for geochronology-oriented sampling'** by Antonio Langone and Matteo Maino

14:00 – 19:00 practical: **'From the floor to the roof and above - a continuous vertical section through an upper crustal magma chamber'**

Day 3 (23 June 2022):

9:00 – 11:00 Lecture: **'The geochemistry of granites as a proxy for deep crustal processes'** by Francesco Secchi and Aida Maria Conte

11:00 – 12:00 Lecture: **'Late-magmatic evolution of plutons and ore development'** by Stefano Naitza

13:00 – 16:00 practical: **'The late magmatic aplitic-pegmatitic dike system of the Castellaccio pluton'**

Lecturers and field trip leaders:

Leonardo Casini¹, Giacomo Oggiano¹, Matteo Maino², Antonio Langone^{3,2}, Francesco Secchi¹, Stefano Naitza⁴, Aida Maria Conte⁵

¹University of Sassari, Department of Chemistry, Mathematics, Physics and Natural Sciences

²University of Pavia, Department of Earth Sciences

³National Research Council, Institute of Geosciences and Earth Resources of Pavia

⁴*University of Sassari, Department of Chemistry and Geology*

⁵*CNR-IGAG, institute of Roma hosted at Sapienza University*

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