

PHOTO - COURTESY OF PARCO DEL MONVISO

## DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES



## DEPTHS: Field-based summer school on subduction forearc dynamics

### DATES

SEP 6 - 10, 2021

### CREDITS

3 ECTS

### TUITION

€ 100 (FOR NON UNIMIB STUDENTS)

INCLUDES TRAVEL, BOARD, AND LODGING EXPENSES FOR THE ENTIRE DURATION OF THE COURSE. THE REGISTRATION FEE DOES NOT INCLUDE TRANSPORT COSTS TO REACH MILAN, HEALTH INSURANCE FOR NON-EU PARTICIPANTS, ANY ADDENDUM IN THE HOTEL.

### APPLICATION DEADLINE

10 JULY 2021

### LOCATION

MILAN AND WESTERN ALPS (AOSTA, VARAITA, PO AND BORMIDA VALLEYS)

### CONTACT

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### PROGRAM DESCRIPTION

Subduction zones are of primary importance for understanding the **interactions between the Earth's surface and the deep levels of the planet** and assessing the potential implications for the climate. The international Summer School "DEPTHS" aims to analyze the dynamics of subduction forearcs through a highly multidisciplinary approach, with particular emphasis on exhumation processes and the deep carbon cycle.

The course is aimed primarily at PhD students in the various fields of Earth Sciences. It includes **one day of classroom lectures in Milan and four days of field lessons** based on geological observations along key transects across the Western Alps, one of the best-studied fossil subduction zones on Earth. Lectures will integrate petrological, tectonic, and stratigraphic evidence along the analyzed transects with the results of recent geophysical experiments on the deep tectonic structure of the Alps.

Lectures will be held by **geologists, petrologists, and seismologists** from University of Milano-Bicocca, ISTERRE Grenoble, and University of Torino, who will interact all together with the students both in the classroom and in the field while hiking and discussing in front of intellectually stimulating outcrops in the breathtaking alpine landscape.

The DEPTHS Summer School is funded by DISAT within the framework of the Departments of Excellence Project.

## PREREQUISITES

Twenty places are available, five of which are reserved for PhD students from the University of Milano-Bicocca. Priority will be given to PhD students. In case of availability, participation will also be open to early career scientists. Candidates will be selected based on the relevance of their doctoral project with the contents and multidisciplinary nature of the course, also considering the need to ensure equal representation of gender and nationality.

## HOW TO ENROLL

YOU ARE REQUIRED TO ENROLL THROUGH THE ONLINE APPLICATION FORM. EVERY PROGRAM ON [HTTP://WWW.SUMMERSCHOOLBICOCCA.COM](http://www.summerschoolbicocca.com) HAS AN **APPLY NOW** SECTION IN ORDER TO ACCESS TO THE APPLICATION. AFTER RECEIVING THE SELECTION NOTIFICATION, YOU WOULD BE REQUIRED TO PAY THE COURSE TUITION FEE WITHIN A SPECIFIED PERIOD. PLEASE FOLLOW THE SECTION **FEES & PAYMENT** ON OUR SUMMER SCHOOL WEBSITE FOR UNDERSTANDING THE PAYMENT OPTIONS.

## PLACE AND TEACHING METOD

6 September: Classroom lectures at the University of Milano-Bicocca. From 7 to 10 September: Lessons in the field in various locations in the Western Alps (Aosta, Varaita, Po and Bormida valleys).

## LOGISTICS

Transport by bus/minibus during the four days of field work. Dinner and overnight in hotels or mountain huts located in villages and small towns in the Western Alps. Field lessons will take place in a mountain environment at altitudes ranging from a few hundred meters to about 2500 meters above sea level (appropriate equipment required: hiking boots, warm clothes, waterproof jacket, mountain backpack).

## UNDER THE PATRONAGE OF:



## IN COLLABORATION WITH:



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## WEB-SITE

<https://summerschoolbicocca.com/21-DEPTHS.php>

