

# INSEGNACI ETNA 2023

## ANNUAL INTERNATIONAL WORKSHOP

<http://site.ietna.eu/seminar2023>



I.I.S.S. BENEDETTO RADICE  
BRONTE - OCTOBER, 20-22

## *Welcome ! Benvenuti !*

Welcome to the 2023 edition of the Insegnaci Etna School!

As you know, this workshop reunites a number of schools from eastern Sicily, an extraordinary area, obviously one of the most fantastic in Europe, for teaching many aspects of the Geosciences directly in the field. And not only about the Etna volcano, but also about earthquakes, tsunamis, meteorology, geo-environment, and the relations that exist between all these elements (and hazards) with the people who are living in that area.

We are very happy about the renewed and increasing presence of EduMed, a newly created Observatory (University Côte d'Azur) at Nice, in France. This new Observatory, and its European partners, have largely widened the field of their didactic activity to all aspects of the geosciences (and geo-hazards) in the Mediterranean, now not limited to earthquakes. Etna is, of course, a perfect candidate to bring European teachers and their classes in direct contact with various aspects of geosciences well beyond the seismology-only classes.

Also, thanks to a financial help of the European Geoscience Union (EGU), it has been possible this year to invite 12 teachers from France, Estonia, Greece, Portugal, Romania, Turkey, Spain and the United Kingdom to participate to this school.

We hope that the workshop will favour exchanges among teachers from all Europe, and their will to continue beyond this Field school with exchanges of students and classes. In this exchange the schools of the Etna region are playing a key role because these connexions are taking place and growing within their premises, on the slopes of Etna. We believe that this is an extraordinary opportunity for both the Sicilian and European teachers.

During the first day of the school, you will have several presentations by well known scientists on different aspects of the Etna: its eruptions, the way to survey its volcanic activity and also its vegetation, all different aspects of the « life » of the volcano. We will not forget medicanes and extreme weather episodes in Mediterranean.

In the second day, we will stage the students from the schools who have exploited the data collected by the pedagogical seismometers around the Etna. We will have also the opportunity to follow different practical activities for teachers on earthquakes, with seismo data analysis, with the experiments from « Sismobox », on satellites images to analyse the drought in Mediterranean area.

And the day will end with a presentation of the excursion for Sunday, by the leaders of this field trip. And Sunday we will enjoy all the different aspects of the excursion with many landscapes and outcrops to study!

It will then be the time for a Goodbye! and Arrivederci all'anno prossimo !, sempre più numerosi !

The Organizing Committee of Insegnaci Etna 2023



## *Ringraziamenti /acknowledgements*

We would like to thank all the persons and institutions that have contributed to the organization of Insegnaci Etna 2019 !

First, Mrs Maria Pia Calanna, Headmaster, and all the personnel of the IISS Benedetto Radice, whose warm welcome in their school has been instrumental for the success of this field school! And we do not wish to forget all other persons from this school!

The European Geoscience Union (EGU), whose financial contribution has made possible the participation of European teachers from outside Italy, and thus contributed to the establishment of contacts among teachers on an European scale.

The Istituto Nazionale di Geofisica e Vulcanologia – Osservatorio Etno Catania, Roma III University, University of Catania and Ecole Normale de Paris for their overall contribution, notably the participation of high-class internationally known speakers.

The EDUMED Observatory (University Côte d'Azur), whose contribution is not only limited to this school, but extends also all year around for discussions and installation of new instruments.

And we thank all the researchers and teachers who have contributed to this educational workshop and their institutions!



## Programme

### Friday 20 October 2023 - IISS Benedetto Radice, Bronte

#### 15:00 Welcome and Introduction

- *Maria-Pia Calanna, dirigente dell'IISS Benedetto Radice*
- *Jean-Luc Berenguer, European Geosciences Union Education Committee*

#### 15:15-15:45 > Scuole / Schools

Gli studenti delle scuole mostreranno i risultati ottenuti in diversi progetti e attività/  
The students of schools will show the results they have obtained in several projects and activities

*Liceo scientifico Archimede Acireale*

Analisi delle acque di alcune sorgenti e fiumi del versante orientale etneo/  
Analysis of the waters of some springs and rivers on the eastern slopes of Etna.

*IIS Leonardo di Giarre*

Le piante pioniere nel territorio Etneo / *Pioneer plants in the Etnean territory / .  
Sebbene le colate di lava possano distruggere e modificare il paesaggio, le piante pioniere  
svolgono un ruolo cruciale nel ripristinare la biosfera /  
Although lava flows can destroy and alter the landscape, pioneer plants play a crucial role  
in restoring the biosphere.*

*I.C. Edmondo De Amicis à Randazzo*

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ZOOM session (opened 15h30 to 17:30):

<https://univ-cotedazur.zoom.us/j/89763941204?pwd=ZytaOTVITlhOSktwbnBrTEoyMGIXUT09>

#### 15:45-16:15 > Francesca Cifelli – Università Roma III

Terremoti e rischi / **Earthquakes and risks**

#### 16:30-17:00 > Francesco Carnemolla, University Catania, Departement BIOMLG

Uno sguardo ad alcune faglie attive nella suburbana Catania /  
A look at some active faults in the Catania suburbs

#### 17:00-17:30 > Pierre Briole, Ecole Normale Supérieure, Paris

Cos'è un modello di deformazione del suolo? /  
What is a ground deformation model?

## Saturday 21 October 2023 - IISS Benedetto Radice, Bronte

09:00 – 09:10 > Welcome to 'insegnaci etna'

ZOOM session (opened 9:00 to 10:30) :

<https://univ-cotedazur.zoom.us/j/85321358037?pwd=VzNreCt2R3o0aFdqMzdnSzFNampsZz09>

09:10 – 09:50 > Scuole / Schools

Gli studenti delle scuole mostreranno i risultati ottenuti in diversi progetti e attività/

The students of schools will show the results they have obtained in several projects and activities

*Liceo scientifico G. Galilei Catania*

Localizzazione dei terremoti che si verificano sull'Etna utilizzando I dati Edumed/

Eartquakes location occurring on Mt. Etna by using Edumed data and Tectoglob software

*I.I.S Benedetto Radice à Bronte*

"180° anniversario della colata lavica del 1843" /

'180<sup>th</sup> anniversary of the 1843 lava flow'

Naturalmente si tratta della colata che ha colpito la città di Bronte /

Of course it is about the lava flow that hit the city of Bronte

*8th Junior High School in Chalandri , Greece*

The Teen8ers come closer to Geosciences.

Un'esperienza di vita "Geo" per 4 studenti grazie a CRL School/EGU

A lifetime "Geo"experience for 4 students thanks to CRL School/EGU.

09:50 – 10:30 > *Boris Behncke, INGV-OE Catania*

L'attività presente dell'Etna, eruzione recenti, tipi di eruzione, bellezza dell'attività vulcanica /

Present activity of the Etna, recent eruptions, types of eruptions, beauty of volcanic activity

Information about the excursion on Etna Mont

Tre diverse attività all'IISS Benedetto Radice

Lingue di lavoro: Inglese, italiano e francese

Ogni attività viene presentata tre volte, in modo da dividere i docenti presenti in tre gruppi di 12-13 persone ciascuno. La durata di ogni attività è di 2 ore /

Three different activities at the IISS Benedetto Radice

Working Languages: English, Italian and French

Each activity is presented three times, in order to divide the attending teachers in three groups of 12-13 people each. The duration of each activity is 2 hours



#Lab A / EGU Field Officers' practical labs. (Giulia Realdon, Xavier Juan – EGU Field Officer)  
Earth Learning Ideas and Etna geology

#Lab B / EDUMED Observatory (Anne von Hatten – Geography Teacher)

Le immagini satellitari: risorse per un approccio interdisciplinare a tematiche specifiche del territorio locale per educare all'ambiente e allo di sviluppo sostenibile /

**Satellite images: resources for an interdisciplinary approach of specific issues concerning the local territory in order to educating on the environment and sustainable development.**

#Lab C / Cosa c'è di nuovo nel 'Insegnaci Etna' sensors network ? (Carole Larose/ JL Berenguer – EduMed Obs)

Dati dell'Etna registrati dai sensori sismici della rete Insegnacietna

Come analizzare e interpretare i dati registrati dai sismografi pedagogici installati intorno all'Etna nell'ambito di Insegnaci Etna /

**Data from Etna recorded by the seismo sensors of insegnacietna network**

**How to analyze and interpret the data registered by the pedagogical seismographs installed around the Etna in the Insegnaci Etna framework**

Orario delle attività / **Timetable for the activities**

11:00 – 13:00 Periodo 1 / **Time Period 1**

**13:00 – 14:30 Lunch Break**

14:30 – 16:30 Periodo 2 / **Time Period 2**

16:30 – 18:30 Periodo 3 / **Time Period 3**

### **Sunday 22 October – Field trip**

Escursione sul Etna  
with CAI

