

MT. ETNA SUMMER SCHOOL

30 September-11 October 2023 – Aci Trezza, Italy

Timetable

Date	Activities	Location	Format
Saturday 30 September	Arrival and travel day		
Monday 1 October	08:30 - Welcome and presentation of students, teachers and contents of the BridgET Summer School (Alessandra Savini & Danilo Reitano) 11:00 - Mt.Etna: geological overview (D. Reitano, S. Falsaperla) 11:45 - What are geohazards? (P. Nomikou) 13:00 - Lunch time 14:00 - Software installations and pre-course material (L. Fallati, F. Gross) 15:30 - Visit to Aci Castello 19:00 - Recap and briefing about next day's activity	Hotel Aci Castello	Classroom session Classroom session Classroom session Laboratory session Fieldwork session
Tuesday 2 October	08:30 - Remote Sensing Data Retrieval: Uncrewed Aerial Vehicles (L. Fallati) 11:00 - LiDAR technology and Laser Scanners (J. Klusak, C. Drummer) 13:00 - Lunch time 14:00 - How academics and the public experienced immersive Virtual Reality for geo-education (F. Bonali) 15:00 - Mt. Etna: visit to the south eastern moving flanks	Hotel Mt. Etna	Classroom session Classroom session Classroom session Fieldwork session

	<p>19:00 - GeoPraktis (I. Martens)</p> <p>20:00 - Recap and briefing about next day's activity</p>	Hotel	Seminar
Wednesday <i>3 October</i>	<p>08:30 - On-land geophysical survey: theory and methods (H. Havenith)</p> <p>09:30 - Pernicana tour and geophysical data collection: UAV-based surveys and Ambient Noise measurements</p> <p>13:00 - Lunch time (packed lunch)</p> <p>19:00 - Visit to a local winery</p> <p>20:00 Recap and briefing about next day's activity</p>	<p>Hotel</p> <p>Mt. Etna</p> <p>Aci Castello</p>	<p>Classroom session</p> <p>Fieldwork session</p> <p>Cultural visit</p>
Thursday <i>4 October</i>	<p>08:30 - Acoustic survey in shallow waters: Multibeam Echosounder (MBES) systems (A. Gucci)</p> <p>09:30 - GROUP A: Ambient Noise data processing and UAV-based photogrammetry data processing with Agisoft Metashape (H. Havenith, L. Fallati)</p> <p>09:30 - GROUP B: MBES installation on Geonautics coastal hydrographic vessel (A. Savini, L. Marino)</p> <p>13:00 - Lunch time</p> <p>14:30 - GROUP A: MBES installation on Geonautics coastal hydrographic vessel (A. Savini, L. Marino)</p> <p>14:30 - GROUP B: Ambient Noise data processing and UAV-based photogrammetry data processing with Agisoft Metashape (H. Havenith, L. Fallati)</p> <p>18:00 - UAV-based photogrammetry data processing with Agisoft Metashape (L. Fallati, J. Klusak)</p>	<p>Hotel</p> <p>Harbour</p> <p>Hotel</p> <p>Harbour</p> <p>Hotel</p>	<p>Classroom session</p> <p>Laboratory session</p> <p>Fieldwork session</p> <p>Laboratory session</p> <p>Fieldwork session</p> <p>Laboratory session</p>

	19:00 - Students deliverable discussion. Recap and briefing about next day's activity		
Friday <i>5 October</i>	<p>08:30 - Visual Imaging: Remotely Operated Vehicles (ROVs) for ground-truthing (A. Savini)</p> <p>09:30 - GROUP A: MBES data processing using QPS Qimera software (A. Gauci, L. Fallati)</p> <p>09:30 - GROUP B: ROV installation on Geonautics coastal hydrographic vessel and data collection with the Autonomous Surface Vehicle (ASV) (A. Savini, D. Carlson)</p> <p>13:00 - Lunch time</p> <p>14:30 - GROUP A: ROV installation on Geonautics coastal hydrographic vessel and data collection with the Autonomous Surface Vehicle (ASV) (A. Savini, D. Carlson)</p> <p>14:30 - GROUP B: MBES data processing using QPS Qimera software (A. Gauci, L. Fallati)</p> <p>18:00 - Backscatter data processing (D. Carlson)</p> <p>20:00 - Recap and briefing about next day's activity</p>	<p>Hotel</p> <p>Harbour</p> <p>Harbour</p> <p>Hotel</p>	<p>Classroom session</p> <p>Laboratory sessions</p> <p>Fieldwork session</p> <p>Fieldwork session</p> <p>Laboratory session</p> <p>Laboratory session</p>
Saturday <i>6 October</i>	<p>09:30 - Underwater photogrammetry data processing with Agisoft Metashape (L. Fallati, L. Marino)</p> <p>13:00 - Lunch time</p> <p>14:30 - Visit to Serra la Nave Observatory, facilitated by INAF (F. Vitello, D. Reitano)</p> <p>21:00 - Recap and briefing about next day's activity</p>	<p>Hotel</p> <p>Mt. Etna</p>	<p>Laboratory session</p> <p>Fieldwork session</p>

Sunday <i>07 October</i>	08:30 - Seismic reflection surveys and applications in the science of Marine Geohazards (S. Krastel, F. Gross)	Hotel	Classroom session
	09:00 - Seismic data processing using Geopsy (tutors: S. Krastel, F. Gross) & observation at the microspore (tutor: G. Panieri) (parallel sessions)		Laboratory session
	13:00 - Lunch time	Catania	
	14:00 - Management of geohazards (D. Reitano, S. Falsaperla)	INGV	Classroom session
	18:00 - Visit to the Osservatorio Etneo	Catania	Fieldwork session
	19:00 - Recap and briefing about next day's activity		
Monday <i>08 October</i>	08:30 - Mud volcanoes in marine and terrestrial environments as potential geohazards (G. Panieri)	Hotel	Classroom session
	10:00 - Visit to Alcantara Gorges	Motta Camastra	Fieldwork session
	13:00 - Lunch time (packed lunch)		
	19:00 - Ocean Senses (G. Panieri)	Hotel	Seminar
	20:00 - Recap and briefing about next day's activity		
Tuesday <i>09 October</i>	08:30 - Virtual Reality (VR) and Artificial Intelligence (AI) in the geosciences (F. Bonali)	Hotel	Classroom session
	10:30 - Students group working time		Laboratory session
	13:00 - Lunch time		
	14:30 - Students group working time and free data processing session		Laboratory session
	18:30 - VR experience using Oculus and VR questionnaire		Seminar
	19:30 - Recap and briefing about next day's activities		

Wednesday <i>10 October</i>	08:30 - Students group working time	Hotel	Laboratory session
	12:00 - Questionnaire: feedback on Etna Summer School and activities 13:00 - Lunch time 14:30 - Presentation of students' work (students) 16:00 - Visit to Taormina		Seminar
Thursday <i>11 October</i>	<i>Departure from Aci Trezza</i>		