

Ettore Majorana Foundation and Centre for Scientific Culture, ERICE-Sicily: 22 – 26 September 2025

INTERNATIONAL SCHOOL OF GEOPHYSICS «ENZO BOSCHI»

43rd Course: "FRONTIERS IN GEOPHYSICS FOR THE THIRD MILLENNIUM"

Preliminary Program

5 June 2025

DAY 1 | 23 September - Tuesday morning | *Global challenges*

Slot	Time	Speaker	Title
0	8:30-8:45	Director & Conveners	<i>Welcome to the 43rd Course of the International School of Geophysics</i>
1	8:45-9:30	G. Spada	<i>Earth's dynamics in the centennial to millennial time scales</i>
2	9:30-10:15	E. Crowley	<i>New capabilities for multi-hazard risk assessment with the OpenQuake Engine and current modelling challenges</i>
3	10:15-11:00	S. Wiemer	How predictable are earthquakes? TBD
	11:00-11:30	Coffee break	
4	11:30-12:15	G. Ekstrom	Global Earthquake Seismology TBD
5	12:15-13:00	J. Tromp	Global Full Waveform Inversion TBD
	13:00-15:00	Lunch break	

DAY 1 | 23 September - Tuesday afternoon | *Understanding global issues and threats*

6	15:00-15:45	G. Beroza	Machine-Learning-Based Earthquake Monitoring TBD
7	15:45-16:30	D. Wald	Strong motion seismology TBD
	16:30-17:00	Coffee break	
8	17:00-17:45	R. Bilham	Geodesy and plate tectonics-TBD
9	17:45-18:30	D. Giardini	Large projects and major infrastructures for 21st century research TBD

DAY 2 | 24 September - Wednesday morning | *Dealing with environmental and societal issues*

10	8:30-9:15	L. De Santis	<i>Geophysical and geological data in the polar regions: tools to investigate past and modern environmental changes and ice sheet dynamics</i>
11	9:15-10:00	N. Pinardi	<i>The science of ocean and coastal predictions</i>
12	10:00-10:45	A. Neri	<i>Present challenges in volcanic hazard assessment</i>
	10:45-11:30	Coffee break & Poster session	
13	11:30-12:15	M. Rosi	<i>Managing volcanic risks in densely populated areas</i>
14	12:15-13:00	S. Hough	Tips for Better Science Communication TBD
	13:00-15:00	Lunch break	

DAY 2 | 24 September - Wednesday afternoon | *Enzo Boschi: memories and accomplishments*

a	15:00-15:20	T. Pepe/ G. Valensise	<i>The legacy of Enzo Boschi</i>
b	15:20-15:40	P. Gasperini	Boschi bolognese-TBD
c	15:40-16:00	M. Stucchi	The L'Aquila trial TBD
	16:00-16:30	Coffee break & Poster session	
15	16:30-17:15	A. Michelini	1982-2025: The evolution of INGV seismological and geodetic networks
16	17:15-18:00	S. Branca	<i>Frontiers of volcanological observatories</i>

DAY 3 | 25 September - Thursday morning | *Earthquake observations at different scales*

17	8:30-9:15	G. Di Toro	Earthquakes in a lab TBD
18	9:15-10:00	R. Burgmann	Geodesy and tectonics TBD
19	10:00-10:45	S. Wesnousky	Earthquake geology and seismic hazard TBD
	10:45-11:30	Coffee break & Poster session	
20	11:30-12:15	M.A. Gutscher	<i>The FOCUS project - Fiber optic cable use for seafloor studies of earthquake hazard and deformation</i>
21	12:15-13:00	R. Arrowsmith	Innovative methodologies in earthquake geology TBD
	13:00-15:00	Lunch break	

DAY 3 | 25 September - Thursday afternoon | ***Earthquake early warning and risk mitigation***

22	15:00-15:45	A. Zollo	Earthquake Early Warning TBD
23	15:45-16:30	R. Allen	Earthquake Early Warning using cellular networks TBD
	16:30-17:00	Coffee break & Poster session	
24	17:00-17:45	I. Iervolino	Earthquake engineering TBD
25	17:45-18:30	R. Pinho	<i>From Earthquake Early Warning to Autonomous Seismic Protection: an integrated, evolutionary approach to societal resilience</i>
-	18:30-19:00	Concluding remarks	