

ation

International Mineralogical Association
Working Group

"Biominerals And Environment"

<u>SUMMER SCHOOL</u> <u>Cagliari, Italy, 05-08 September 2023</u>

- ✓ Biomineralogy
- Minerals and the environment
- ✓ Advanced techniques for (bio)minerals characterisation

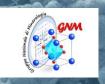
Registration deadline: May, 24th 2023

Further information at the following link: https://sites.unica.it/biominerals-andenvironment













G. De Giudici, K. Rosso, K. Hudson-Edwards, J. Maizlan,
 F. Di Benedetto, F. Bellatreccia, P. Di Leo,
 V. Funari e L. Pastero, P. Onnis., D. Medas

Planned field trips:

- ✓ Porto Flavia an industrial archeological dock linked to the mining sites
- ✓ Santa Barbara Cave a natural cave hosting barite, calcite and aragonite mineralisation
- ✓ Ingurtosu Naracauli mines a mining site where one of the largest Pb-Zn-Ag district in Italy was exploited



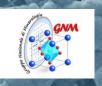


















Programme:

	Biomineralogy and environmental processes		Environmental Mineralogy		field trip and field activity		Investigating BM by High sensistivity techniques
09:00	Opening and Introduction to the school						
09:30 - 11:00	Molecular processes and iron minerals - K. Rosso	09:00 - 10:30	Sulphide weathering - J. Maizlan			09:00 - 10:30	IR microscopy and environment - G. Birarda
11:30 - 13:00	Biomineral generalities - G. De Giudici	11:00-12:00	Fungi weathering and microbiological tools - M. Zotti	8:30 - 17:30	Field trip, Santa Barbara Cave and	11:00-12:30	XAS and syncrothron techniques to investigate biomineral Processes - C. Meneghini
		12:00 - 13:00	Sulphur reducing bacteria and environment - P. Paganin				
				8:30 - 17:30	Masua Bay,		
14:00 - 15:30	Biomineral, microbiology tools - C. Alisi	14:00 - 15:30	Mine sustainability - K. Hudson-Edwards		sampling biofilms	14:00 - 15:00	Biominerals and Lichens - P. DI Leo
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16:00 - 16:45	Mn oxide and caves microbiological tools - M. Pellegrini	16:00 - 16:45	Application of Phosphates, carbonates and oxalates to environmental remediation - L. Pastero			15:00 - 16:45	Short presentations (students)
	Biomineralization					17:00 - 17:30	final remarks
16:45 - 17:30	processes in microbial communities: role of bacteria, extracellular polymeric substance and viruses - E. Perri	16:45 - 17:30	Mineral and the environment: risk analysis - A. Vecchio				















