

**Gran Paradiso Summer School “The Future of Critical Zone”
Valsavarenche (AO, Italy), 21-28 June 2024**

Lecture titles

S. Anderson	Regolith, weathering, and geomorphology
E. Aronson	Role of microorganisms in the CZ
C. Beierkuhnlein	Biogeography, biodiversity and climate change
S. Billings	How biology and geology combine to create the CZ
A. Dere	Soil morphology and geochemistry
R. Huang	Erosion, weathering and nutrient transport in catchments
P. Le Coent	Transdisciplinary approaches, from natural to social science, for the design and evaluation of sustainable groundwater management strategies
N. Nikolaidis	(1) Human Impacts on Soils - Restoring ecosystem services (2) Towards Integrated Water and Land Management - The WEF NEXUS and NBS
Y. Onda	Forest practices, groundwater recharge and soil erosion in the CZ
A. Provenzale	Carbon and water fluxes in the soil-vegetation-atmosphere system
T. White	Introduction to the CZ; Geosciences in the context of the CZ
E. Wozniak	Remote Sensing of the Critical Zone
A. Wymore	Ecosystem Vectors and Critical Zone Reactors: Studying the integrated system