



Politecnico
di Bari



CICLO DI INCONTRI DI INGEGNERIA GEOTECNICA

GEOTECHNICAL ENGINEERING WEBINARS

A multiscale approach for the characterization of bio-chemo- mechanical processes in contaminated marine sediments

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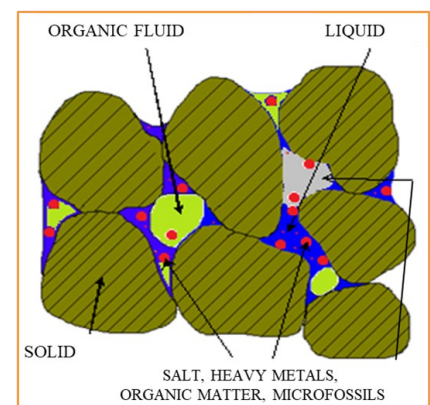


A detailed multiscale investigation of the geotechnical, chemical and mineralogical properties was conducted on contaminated sediment samples collected within the Mar Piccolo, a marine basin declared 'at high risk of environmental crisis' and prioritised for remediation. Several clayey samples from the top layer exhibited peculiar geotechnical properties, in terms of plasticity and activity indexes, compressibility and hydraulic permeability. While the prime suspect for such unconventional behaviour was the chemo-mechanical coupling between soil skeleton and contaminants, it turned out that the degradation of organic matter and the presence of microfossils and diatoms are likely to affect significantly the micro to macro behaviour of marine sediments from complex ecosystem.

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15:30 - 16:30

[Webinar link](#)



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