

The Chemist's Interactions

Seminars @ the Chemistry Department

ROOM
G21
h 14.30

Friday, 18th March 2022

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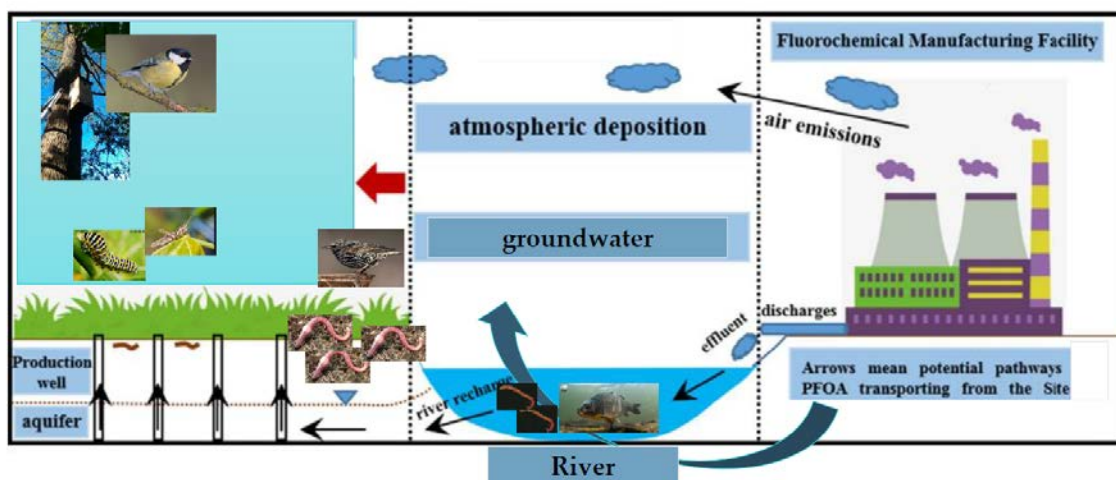


Poly- and perfluoroalkyl substances (PFAS), the "Forever Chemicals": monitoring and risk assessment in Italian contaminated sites.

PFAS have been used in consumer products since the 1940s. They are extremely persistent, build up in the environment and some also in our bodies. This is why they are often called forever chemicals. Tests indicate that some cause serious health effects such as cancer and liver damage, and they were found in all the abiotic and biotic environmental compartments including drinking water and human blood.

Since 2013 the discovery by our research group of one of the widest pollution of groundwaters in Regione Veneto kicked off a flood of studies on the impacts of PFAS on the human and ecosystem health, as well as improvements in innovative monitoring approaches mainly based on high resolution mass spectrometry techniques.

In the last years, our efforts were focused on two fluorochemical industrial plants, in Veneto and Piemonte, which widely impacted the surrounding water resources and ecosystems. The PFAS emergency in these study sites have been pushing the development of new monitoring and risk assessment schemes that made possible to screen, identify and assess a series of new or unknown perfluorinated compounds, highlighting the need to manage the PFAS as a whole family in the regulatory frameworks.



The event will be streamed on zoom.us
for external participants!

For registrations: valentina.colombo@unimi.it



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