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Summer School 2025 | From 25-29 August 2025

EDAPHOS & BIOSYSMO

The **EDAPHOS** and **BIOSYSMO** projects successfully concluded their joint Summer School, held in Montbéliard, France, bringing together students, researchers, and experts for an intensive week of learning, fieldwork, and exchange. The program combined classroom lectures, laboratory experiments, and field visits to provide participants with hands-on experience in ecological and ecotoxicological risk assessment, phytoremediation, and innovative monitoring techniques.

The opening day featured lectures by Dr. Nicolas Manier (INERIS) on environmental risk assessment, Dr. Aleksandra Zgorska, (GIG) on ecosystem evaluation, Konstantinos Iordanoglou (CRES) on lignocellulosic energy crops and phytoremediation, Dr. Manhattan Lebrun and Dr. Humberto Castillo-Gonzalez (UMLP) on microbial optimisation for phytoextraction, and Sophie Fabre (ONERA) on remote sensing. The day concluded with a cultural visit to Montbéliard, allowing participants to discover the city's heritage.

Over the following days, students engaged in a series of workshops, including soil enzyme activity



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measurement, microfluidics for soil ecotoxicity, and bioassays with *Daphnia magna* and phytotoxicity tests. These sessions demonstrated how complementary plant- and animal-based methods can enhance environmental risk assessments and guide remediation strategies.

Field visits further enriched the experience, with excursions to the “Parc des Alliaires” in Vieux-Charment to study young poplar plantations used for soil decontamination, and practical exercises in remote sensing supported by ONERA drones. Students also practiced physiological monitoring of vegetation using tools such as the Chlorophyll Content Meter and explored fungal strains for phytoremediation, alongside plant health monitoring techniques. The Summer School concluded with a strong message of collaboration and knowledge-sharing. Participants left with valuable insights, new skills, and strengthened connections within the environmental science community. The organisers expressed their gratitude to all speakers, trainers, and students for their contributions, which made the event a rich and inspiring learning experience.

