

Summer School: Quali-quantitative measurements, sampling and monitoring in lowland water courses

Pavia, 15 – 17 September 2025

Summer School for Ph.D. students and young researchers supported by the DORIAN Project: Action 3

Venue: Aula Ricciardi, Department of Civil Engineering and Architecture, via Ferrata 3, Pavia

DETAILED SCHEDULE

Monday, September 15 th		
9.30-10.00	Registration	
10.00-10.30	Andrea Fenocchi <i>Università di Pavia</i>	The Po Valley surface water network within a joint vision of water quantity and quality
11.00-11.30	Daniele Nizzoli <i>Università di Parma</i>	Genesis, transport and retention of nutrient loads in the Po River watershed
11.30-12.00	Edoardo Cavallini <i>Università di Parma</i>	Relationships between water discharges and nutrient concentrations at the closing sections of the watersheds of the Po River Plain
12.00-13.30	Lunch	
13.30-14.00	Ilaria Innocenti <i>Consorzio di Bonifica Est Ticino Villoresi</i>	Climate change adaptation measures to improve the resilience of irrigation networks in the ETV district after the 2022-2023 drought
14.00-14.30	Daniele Masseroni <i>Università di Milano</i>	Improving the efficiency of the Po Valley irrigation system to minimise water use
14.30-15.00	Raffaella Balestrini <i>CNR-IRSA Brugherio</i>	Pollution from diffuse agricultural sources and the mitigation role of riparian buffer zones
15.00-15.30	Coffee break	
15.30-16.00	Stefano Polesello <i>CNR-IRSA Brugherio</i>	Urban wastewater treatment plants as a source of emerging micropollutants in freshwaters
16.00-16.30	DORIAN Action 3 <i>Università di Pavia</i>	Introduction to the discharge measurements that will be performed in the technical visit
16.30-17.00	DORIAN Action 3 <i>Università di Pavia</i>	Introduction to the water quality measurements that will be performed in the technical visit
17.00-17.30	Closing discussion on the seminars and round table Chair: Diego Ravazzolo <i>Università di Pavia</i>	

Tuesday, September 16 th		
8.30-9.00	Meet-up to take the bus	
9.00-9.30	Bus travel	
9.30-12.30	Discharge and water quality measurements and sampling on the Navigliaccio and Naviglio Pavese channels in Casarile	
12.30-13.00	Bus travel	
13.00-14.15	Lunch	
14.15-14.45	Agnese Marchini <i>Università di Pavia</i>	What aquatic alien species are, why they represent a pollution source and their regulatory framework
14.45-15.15	Daniele Paganelli <i>Università di Pavia</i>	Biopollution assessment and management of freshwater alien species in the secondary hydrographic system of a river catchment in the Po River Plain
15.15-15.45	Coffee break	
15.45-16.15	Natale Pizzocchero Manuela Marchesi <i>ARPA Lombardia</i>	Monitoraggio biologico dei corsi d'acqua secondo la WFD e risultati per i corsi d'acqua della Pianura Padana
16.15-16.45	Nicolò Pella <i>Università di Pavia</i> <i>CNR-IRSA Verbania</i>	Eco-hydrological modelling with SWAT+: what we can and what we cannot get from a model
16.45-17.15	Closing discussion on the seminars and round table Chair: Daniele Paganelli <i>Università di Pavia</i>	

Wednesday, September 17 th		
9.00-10.00	Gianni Tartari <i>EuCliPa.IT APS</i> <i>CNR-IRSA Brugherio</i>	Evolution of water quality of the Lambro River
10.00-10.30	Diego Copetti <i>CNR-IRSA Brugherio</i>	Combined sewer overflows as a limiting factor in the efficiency of integrated sewage collection and treatment systems
10.30-11.00	Coffee break	
11.00-11.30	Stefano Tasselli <i>CNR-IRSA Brugherio</i>	Synthetic fragrances in surface waters and wastewater treatment plants
11.30-12.00	Laura Marziali <i>CNR-IRSA Brugherio</i>	Analysis of trace elements and bioaccumulation in the trophic chain of the Toce River
12.00-13.30	Lunch	
13.30-14.30	DORIAN Action 3 <i>Università di Pavia</i>	Results of the first DORIAN Action 3 field monitoring and numerical modelling activities
14.30-15.00	Closing discussion on the seminars and round table Chair: Elisabetta Persi <i>Università di Pavia</i>	
15.00-17.30	Hands-on group activities: students, in small groups, will assist in the analysis of water samples and participate to hydraulic measurements in the laboratory and/or to the processing of field hydraulic data (e.g. discharge calculation, comparison of results against existing stage-discharge relationships)	

Attendance to the entire summer school will award **4 CFU (ECTS)** to Ph.D. students

Participation to the summer school is **completely free of charge**

Info and registration: elisabetta.persi@unipv.it, andrea.fenocchi@unipv.it

