

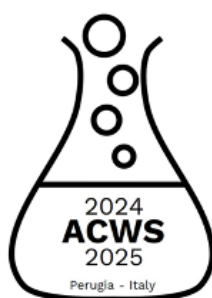
Agricultural Chemistry Winter School

THE SUSTAINABLE DEVELOPMENT GOALS:



The Role of Agricultural Chemistry in a Circular Economy Perspective

05-08 February 2024, Perugia



School aims

Rapid population growth and industrial progress have led to the accumulation of greenhouse gases (GHGs) in the atmosphere, resulting in global warming increase of 1.5°C compared to the pre-industrial period. Climate change represents an urgent issue to be faced in order to prevent harmful impacts on both environment and communities. The Paris Agreement on Climate Change and the 2030 Agenda for Sustainable Development are the most important global policies for mitigating the effect of climate change aimed at achieving net-zero global emissions by 2050. Agricultural chemistry may play an important role in achieving the Sustainable Development Goals (SDGs) by adopting policies aimed at optimizing the use of natural resources and protecting the soil-plant system from a circular economy perspective. These measures can contribute to improve soil health and crop production, reduce pollution (heavy metals, pesticides, antibiotics, microplastics) and promote the use of renewable energy sources. In addition, because of the many chemical qualities, the reuse of agricultural by-products can have significant implications in a variety of industrial sectors, including the food industry (food additives and supplements), agriculture (biofertilizers and biostimulants) and green energy (biogas). All these actions pave the way for sustainable development of the agricultural sector in agreement with SDGs, contributing to lowering the C footprint and reaching climate neutrality.

This edition of the Agricultural Chemistry Winter School will focus on the aforementioned concerns while also promoting the importance of research in agricultural chemistry among young scientists in an international, multidisciplinary, and friendly environment. The Winter School, organized by the Italian Society of Agricultural Chemistry (SICA) and hosted at the Dept. of Civil and Environmental Engineering of the University of Perugia, is offered to doctoral students, post-docs and early-stage researchers, and aims at providing an opportunity to: (i) exchange and extend their understanding of the theoretical, conceptual and applicative aspects regarding soil, plant and environmental sciences; (ii) provide insights into novel methodological and analytical approaches; (iii) build and nurture research networks; and (iv) consolidate scientific writing and communication skills. The program will therefore provide a series of activities including keynote lectures, seminars, workshops, as well as oral and poster presentations by the participants.

School venue

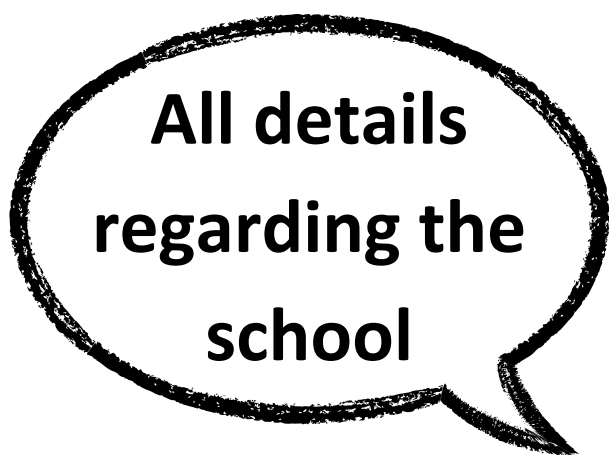
Department of Civil and Environmental Engineering
University of Perugia (Room C)
Via G. Duranti, 93 - 06125, Perugia, Italy

Monday, 5 February 2024		Tuesday, 6 February 2024		Wednesday, 7 February 2024		Thursday, 8 February 2024	
14:00 - 14:30	Registration	Session 2: Environmental pollution assessment		Session 3: Valorization of agricultural by-products		Session 4: Sustainable crop production	
14:30 - 15:00	Opening Session	Moderator: Youry Pii, Free University of Bolzano, Italy		Moderator: Daniel Said Pullicino, University of Torino, Italy		Moderator: Laura Zanin, University of Udine, Italy	
Session 1: Soil health restoration for a sustainable agriculture		09:00 - 10:00		09:00 - 10:00		9:00 - 10:00	
Moderator: Martina Mazzon, University of Bologna, Italy		10:00 - 10:45		10:00 - 10:45		10:00 - 10:45	
15:00 - 16:00	Innovative mulching films for a sustainable agriculture Vito Armando Laudicina, University of Palermo, Italy	Coffee break ☕		Coffee break ☕		Coffee break ☕	
16:30 - 17:15	Effects of amendments on SOM under climate change scenarios Beatrice Giannetta, University of Foggia, Italy	11:15 - 12:00		11:15 - 13:00		11:15 - 12:00	
17:15 - 18:00	From the lab to the field: use of organic amendments for the functionality restoration of degraded soils Matteo Garau, University of Sassari, Italy	12:00 - 13:00		Lunch break /Poster session		12:00	
18:00	Get together 🥂🥂	Lunch break/Poster session/AGRITECH researchers meet PhD students		Lunch break /Poster session		Closing session	
		Moderator: Eliana Gattullo, University of Bari, Italy		Moderator: Laura Giagnoni, University of Brescia, Italy			
		14:30 - 15:15		14:30 - 15:15			
		Coffee break ☕		Coffee break ☕			
		15:45 - 16:30		15:45 - 16:30			
		16:30 - 17:30		16:30 - 17:30			
				20:00			
				Social dinner 🎵🍴🥂🌐			

Organizing committee

Daniela Pezzolla
Antonio Caporale
Silvia Celletti
Matteo Garau
Eliana Gattullo
Laura Giagnoni
Beatrice Giannetta
Martina Mazzon
Youry Pii
Daniel Said Pullicino
Laura Zanin

University of Perugia
University of Napoli
University of Torino
University of Sassari
University of Bari
University of Brescia
University of Foggia
University of Bologna
University of Bolzano
University of Torino
University of Udine



Thanks to

