

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface

WORKSHOP ANNOUNCEMENT

The TwinSubDyn project consortium in Novi Sad is pleased to announce
second international workshop!

Contamination Control In Relation To The Application Of Organic Soil Amendments In Soil

28.11.-01.12.2023.

University of Novi Sad, Faculty of Sciences
Teachers club, Trg Dositeja Obradovića 4
Novi Sad, Republic of Serbia (and online)

Workshop background

Current agricultural practices result in harmful environmental effects, including three key problems. Two major issues need to be addressed: deterioration of soil as a key non-renewable resource in our lifetime, groundwater pollution. Additionally, globally valuable resources are continuously lost through waste streams. Therein, organic-based wastes such as biomass residues and biosolids can emit substantial amounts of greenhouse gases if landfilled or burned off. Thus, strategies to utilize these resources following concepts of circular economy are urgently needed. Nowadays, all this waste streams can be used as soil organic amendments. To support further development and a safe and useful application of organic amendments, the TwinSubDyn consortium has developed a project to study the impact of organic soil amendments quality on the soil and the environment. To share knowledge on this topic with a broader scientific community, the project partners are organizing workshop that will focus on the effects of organic soil amendments on soil organic matter and nutrient dynamics. We invite you to view the agenda of the workshop on the following pages and to join us in person or online.

University of Novi Sad Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental protection



University of Vienna, Centre for Microbiology and Environmental Systems Science



universität
wien

Forschungszentrum Jülich, The Institute of Bio- and Geosciences Agrosphere (IBG-3)



JÜLICH
Forschungszentrum

Martin-Luther-Universität Halle-Wittenberg, Soil Biogeochemistry



MARTIN-LUTHER-UNIVERSITÄT
HALLE-WITTENBERG

Spanish National Research Council - Instituto de Recursos Naturales y Agrobiología de Sevilla



Instituto de Recursos Naturales y Agrobiología de Sevilla



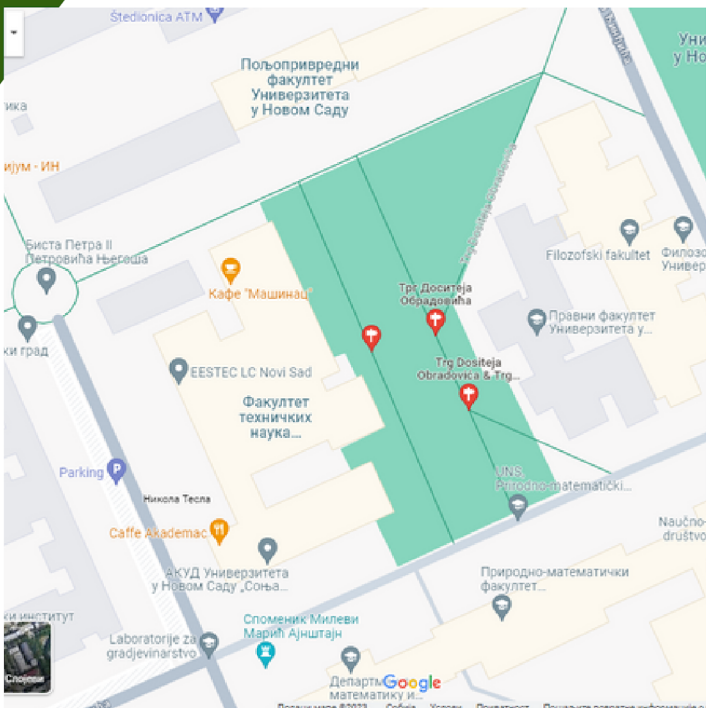
CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

AIMS OF THE WORKSHOP

1. To develop a common understanding of direct and indirect effects of organic soil amendments on contaminant dynamics in soil and waters.
2. To develop new knowledge about biodegradation and biotransformation of organic contaminants in receiving environment and mobility of charged and ionizable organic compounds and microplastic in organic soil amendments, soil and subsurface
3. Discussion through the topical breakout sessions on mobility, plastic-derived compounds, plastics, colloids and transformation

DAY 1. 28.11.2023. <i>Organic Soil Amendment related contaminants general aspects</i>		
14:00 – 14:30	Opening Remarks, Introduction to the workshop/project objectives and participants	Snežana Maletić
14:30 – 15:00	General overview of contaminants detected in organic soil amendments	Gabriel Sigmund
15:00 – 15:30	Coffee break	
15:30 – 16:00	Available data on organic soil amendments in WBC	Marijana Kragulj Isakovski
16:00 – 16:30	Direct and indirect effects of organic soil amendments on contaminant dynamics in soil and waters	Gabriel Sigmund
16:30 – 17:00	Biodegradation and Biotransformation of organic contaminants in receiving environment	Michael Zumstein
17:00 – 17:15	Q&A session	
DAY 2. 29.11.2023. <i>Fate of organic contaminants in Organic soil amendment-soil system</i>		
10:00 – 10:15	Agenda overview	
10:15 – 11:00	Mobility of charged and ionizable organic compounds	Gabriel Sigmund
11:00 – 11:30	Coffee break	
11:30 – 12:00	Overview on microplastic in organic soil amendments, soil and the subsurface	Aleksandra Tubić
12:00 – 12:45	Plastic components deriving from organic soil amendments	Thorsten Hüffer
12:45 – 13:00	Q&A session	
13:00 – 14:00	Networking Lunch	
14:00 – 16:00	Reports and updates on ongoing research activities: Irina Jevrosimov Sanja Vasiljević Tamara Apostolović Marko Šolić Nina Đukanović Slaven Tenodi	Moderation by Snežana Maletić and Gabriel Sigmund
16:00 – 16:30	Lessons learned from scientific exchange with a focus on pitfalls and opportunities for future collaborations	Gabriel Sigmund
16:30 – 16:45	Q&A session	

DAY 3. 30.11.2023. Knowns and unknowns on organic soil amendment affected contaminant dynamics		
10:00 – 10:15	Agenda overview	
10:15 – 11:00	Colloids and their significance in organic soil amendment affected soils	Thilo Hofmann
11:00 – 11:30	Coffee break	
11:30 – 12:00	Introduction and kick-off of discussion session	Gabriel Sigmund
12:00 – 13:00	Beyond the Horizon: Unveiling the Environmental Impact of Microplastics and PFAS as Enduring Symbols of Persistent Organic Pollution – part 1	All participants
13:00 – 14:00	Lunch break	
14:00 – 15:30	Beyond the Horizon: Unveiling the Environmental Impact of Microplastics and PFAS as Enduring Symbols of Persistent Organic Pollution – part 2	All participants
15:30 – 16:00	Closing remarks of discussion session	All participants
DAY 4. 01.12.2023. Planning a joint path forward		
10:00 – 12:30	Echoes in the Ecosystem: Pharmaceuticals and Pesticide Residues as Ubiquitous Organic Pollutants Shaping Our Environment	All participants
12:30-13:00	Closing remarks and discussion on next steps	Snežana Maletić and Gabriel Sigmund
13:00-14:00	Networking Lunch	



LOCATION

University of Novi Sad, Faculty of Sciences
Teachers club, Trg Dositeja Obradovića 4
Novi Sad, Republic of Serbia

The workshops will be organized in a hybrid format in English. The number of participants is limited, so please let us know as soon as possible if you would like to attend. A registration fee is not required.

Link for online participation (MS Teams): will be provided after registration.

CONTACT INFORMATION AND REGISTRATION

Reserve your spot: <https://forms.gle/YPQY69ruzwSPfPBc6>

Be sure to mark your calendars! A confirmation mail from TwinSubDyn about your registration will be send to you before event - so be sure to look out for it!

If you have any suggestions for our agenda topic or require further information, please do not hesitate to contact us on our email address:

twinsubdyn@pmf.uns.ac.rs

More information about the event and TwinSubDyn project are available at: <https://twinsubdyn.pmf.uns.ac.rs/> and our social networks



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