

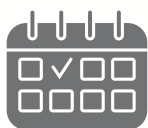


**11st MEMORIAL SCIENTIFIC MEETING ON
ENVIRONMENTAL PROTECTION
„DOC DR MILENA DALMACIJA“**

together with

**1st ADVANCED WASTEWATER TREATMENT SPRING
SCHOOL - SMARTWATERTWIN**

AGENDA



01-04.04.2024.



Rectorate UNS
Dr Zorana Đinđića 1,
21000 Novi Sad



milenedalmacija.com



Organizers



University of Novi Sad

Faculty of Sciences



**Department of Chemistry, Biochemistry
and Environmental Protection**

Foundation

"Doc dr Milena Dalmacija"



SmartWaterTwin HE Project



**Support of the Provincial Secretariat for Higher Education and Scientific Research of
AP Vojvodina, RS**



About the Meeting



**President of UO Foundation
„Doc dr Milena Dalmacija“
dr Đurđa Kerkez, s.r.**

Dear colleagues, dear young researchers, the eleventh Memorial Scientific Meeting on Environmental Protection "Doc Dr. Milena Dalmacija" is organized by the Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, "Dr. Milena Dalmacija" Foundation, SmartWaterTwin, Horizon Europa project, as well as BEuSED project, Science Fund of the Republic of Serbia.

We are organizing this meeting in the name of our colleague, Assistant professor Milena Dalmacija, PhD, who was a valuable and dear member of the Chair of Chemical Technology and Environmental Protection and an example of a successful young researcher. With her innovative ideas and selfless commitment, she contributed to the development of existing and new scientific directions at our faculty.

In the past decade, the "Doc Dr. Mlena Dalmacija" Memorial Scientific Meeting was, in the true sense of the word, a gathering of young people who recognized something more, and that is the importance of every step, even the one that seems small at first, in maintaining scientific continuity and scientific progress in our region. Science, as such, has no end. In the future, we want to become even better as organizers and be an important step in the professional development of young researchers. To create the space for the exchange of scientific ideas and results, but also the exchange of experiences with older colleagues. This year, the 11th Memorial Scientific Meeting will be integrated with the 1st Advanced Wastewater Treatment Spring School - SmartWaterTwin, where you will be able to learn about the latest research and trends in the water sector. There are also workshops with the topics that support scientific work, and will certainly help you shape your ideas and research in order to achieve maximum results.

Join us to promote the excellence in science together!

A light blue circular portrait of Milena Dalmacija, an Assistant Professor, is positioned in the upper left. She has long blonde hair, is wearing a white shirt, a pearl necklace, and a headband. To the right of the portrait, her name and dates are written in white text.

Assistant professor dr Milena Dalmacija

(26.10.1984-01.04.2012.)



Assistant Professor Milena Dalmacija, PhD, was born on October 26, 1984 in Novi Sad. She enrolled the Faculty of Sciences at the Department of Chemistry, Biochemistry and Environmental Protection in 2003 and graduated in 2007 with an average grade of 9.61. In 2007, she enrolled in Doctoral studies at the same faculty where she defended her doctoral dissertation in 2010 entitled "Assessment of the potential of sediment remediation using immobilization agents". Since 2007, she has been involved in teaching at the Department of Chemistry, Biochemistry and Environmental Protection of the Faculty of Sciences in Novi Sad as a researcher-intern, and then as a research associate in the scientific fields of chemistry, on the subjects: Quality of drinking water, Environmental monitoring, Water protection, Industrial wastewater treatment, Eco-engineering and Water pollution. She designed the laboratory exercises for the courses Drinking Water Quality and Industrial Wastewater Treatment in accordance with trends in the field of environmental protection and analytics. As an assistant professor, since March 2010, she has been a professor of the courses Sources and Control of Environmental Pollution, Water Pollution, Water Protection and Drinking Water Quality. During her education and further professional development, she won several awards and recognitions (University of Novi Sad - award for success in 2003/2004; Serbian Chemical Society - special recognition for exceptional success during her studies at the Faculty of Sciences of the University of Novi Sad; University in Novi Sad - award for success achieved during studies, as well as many others). The Government of Vojvodina posthumously awarded her a special plaque for the exceptional results achieved in the field of scientific and research work of permanent importance for the development of science and higher education in the Province of Vojvodina.

FOREVER IN OUR MEMORY...

Committees

Scientific Board:

- dr Miladin Gligorić, Retired Full professor, Faculty of Technology Zvornik, University of East Sarajevo
- dr Jasmina Agbaba, Full professor, Faculty of Sciences, University of Novi Sad
- dr Srđan Rončević, Full professor, Faculty of Sciences, University of Novi Sad
- dr Dragan Radnović, Full professor, Faculty of Sciences, University of Novi Sad
- dr Dušan Mrđa, Full professor, Faculty of Sciences, University of Novi Sad
- dr Milena Bečelić-Tomin, Full professor, Faculty of Sciences, University of Novi Sad
- dr Miljana Prica, Full professor, Faculty of Technical Sciences, University of Novi Sad
- dr Snežana Maletić, Full professor, Faculty of Sciences, University of Novi Sad
- dr Dejan Krčmar, Full professor, Faculty of Sciences, University of Novi Sad
- dr Aleksandra Tubić, Full professor, Faculty of Sciences, University of Novi Sad
- dr Vladimir Beškoski, Full professor, Faculty of Chemistry, University of Belgrade
- dr Nataša Đurišić Mladenović, Associate professor, Faculty of Technology, University of Novi Sad

Organizing Committee:

- dr Đurđa Kerkez, Associate professor, Faculty of Sciences, University of Novi Sad
- dr Dragana Tomašević Pilipović, Associate professor, Faculty of Sciences, University of Novi Sad
- dr Anita Leovac Mačerak, Assistant professor, Faculty of Sciences, University of Novi Sad
- dr Vesna Pešić, Assistant professor, Faculty of Sciences, University of Novi Sad
- dr Nataša Slijepčević, Research associate, Faculty of Sciences, University of Novi Sad
- dr Nataša Duduković, Assistant with a doctorate, Faculty of Sciences, University of Novi Sad
- dr Dunja Rađenović, Research associate, Faculty of Sciences, University of Novi Sad
- dr Jasmina Nikić, Research associate, Faculty of Sciences, University of Novi Sad
- dr Tijana Marjanović, Research assistant, Faculty of Sciences, University of Novi Sad
- dr Jovana Pešić, Research assistant, Faculty of Sciences, University of Novi Sad
- dr Slaven Tenodi, Assistant, Faculty of Sciences, University of Novi Sad
- Nada Popsavin, PR manager, Faculty of Sciences, University of Novi Sad

Location



The 11. Memorial scientific meeting on environmental protection "Docent Dr. Milena Dalmacija" together with the 1. Advanced Wastewater Treatment Spring School - SmartWaterTwin will be held in the central building of the University of Novi Sad - RECTORATE. The address is Dr. Zorana Đinđića 1, Novi Sad.



Agenda

MONDAY, 01.04.2024.

10:30-10:40	EVENT OPENING
10:40-11:10	Nataša Đurišić-Mladenović: K Conventional and advanced analytical approaches for determining the presence of organic micropollutants in environmental samples (<i>Plenary lecture</i>)
11:10-11:30	Danka Kostadinović: The influence of a green roof on the concentration of suspended particles and nitrogen dioxide (<i>Laureate lecture</i>)
11:30-11:50	Tajana Simetić: Tajana Simetić (Laureate lecture), Degradation of organic pollutants in water: comparison of UV/H₂O₂, UV/S₂O₈²⁻ and UV/HSO₅⁻ (<i>Laureate lecture</i>)
11:50-12:10	Milica Ćurčić: Preservation of the environment and resources as a national interest of the Republic of Serbia
12:10-12:50	POSTER SESSION AND COFFEE BREAK
12:50-13:05	Katarina Tošić: Application of ultrasonic treatment in improving the sorption properties of natural ore pyrophyllite
13:05-13:20	Nenad Popov: Carbon dioxide storage using the accelerated carbonization technique
13:20-13:35	Marijana Anđelić: Potential of phosphogypsum for stabilization/solidification of river sediment
13:35-13:50	Panta Krstić: Sediment as a building material
13:50-14:05	Discussion and conclusions
14:05-15:00	LUNCH
15:00-17:00	BesedON Workshop



Agenda

TUESDAY, 02.04.2024.

10:00-10:30	Vladimir Beškoski: (Bio)degradation of "eternal chemicals" - the challenge of per- and polyfluorinated compounds (<i>Plenary lecture</i>)
10:30-10:50	Anđela Mitrović Rajić: Mechanochemical and thermal modification of pyrophyllite for use in electrochemical sensors and membranes (<i>Laureate lecture</i>)
10:50-11:05	Maja Rajković: Software tools for estimating concentrations of pollutants in the air originating from traffic
11:05-11:20	Isidora Lazić: Comparison of radon measurement methods in residential areas in the territory of Novi Sad
11:20-11:55	POSTER SESSION AND COFFEE BREAK
11:55-12:10	Vesna Vasić: Biosorption of heavy metals by the shells of the invasive crayfish <i>faxonius limosus</i>: efficiency and potential
12:10-12:25	Milica Mišić: Modeling the dispersion of nitrogenous compounds in surface waters during accidental situations
12:25-12:40	Teodora Cvanić: Application of an aqueous micellar extraction system for the isolation of bioactive compounds from horned melon peel
12:40-12:55	Ivana Jevtić: Application of direct photolysis for the removal of mycotoxins from the aquatic environment
12:55-13:10	Jelena Dimitrijević: Immobilized waste oat straw as an effective adsorbent of copper ions
13:10-13:25	Tijana Adamov: Assessment of the contamination potential of leachate from selected municipal waste landfills in AP Vojvodina
13:25-13:45	Discussion and conclusions
13:45-14:45	LUNCH
14:45-15:30	Thematic session: Circular economy of wastewater What is the circular economy of waste water?/ Waste water as an "identity card" of lifestyle



Agenda

WEDNESDAY, 03.04.2024.

09:50-10:00	OPPENING
10:00-10:30	Julien Le Roux (UPEC, France): Advanced treatment of micropollutants in wastewater: from adsorption to oxidation and disinfection processes
10:30-11:00	Nick Duinslaeger (ICRA, Spain): Development of next generation technologies for the destruction of PFAS in water
11:00-11:30	Djurdja Kerkez (UNSPMF, Serbia): Potential of resource recovery from wastewater in the Republic of Serbia
11:30-12:00	COFFEE BREAK AND ART EXHIBITION
12:00-13:30	<i>Research Management and Support Session</i>
12:00-12:30	Introduction to SWT goals and strategy in research support and management – State of play with D2.2 Roadmap for improving services of the UNSPMF research administration <ul style="list-style-type: none"> • Speaker: Gordana Vlahović, Head of International Relations and Project Office, UNSPMF
12:30-13:30	Funding for Research: Importance, Types of Funding, and How to Apply <ul style="list-style-type: none"> • Speaker: Laura Bertolini, International Research Officer, Institut Català de Recerca de l'Aigua, ICRA
13:30-14:00	LUNCH



Agenda

WEDNESDAY, 03.04.2024.

14:00-15:00	<p>Workshop on career development – SWT Partners and their Success Stories</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Jelena Rađenović, ICREA Research Professor at Institut Català de Recerca de l'Aigua (ICRA), Spain • Maria José Farré, Research Scientist at Institut Català de Recerca de l'Aigua (ICRA), Spain <p>Q&A</p>
15:00-15:15	Coffee break
15:15-16:00	Régis Moilleron and Julien Le Roux (UPEC, France): An overview of analytical approaches for micropollutants in wastewater-related matrices and their applications
16:00-16:15	COFFEE BREAK
16:15–17:15	<p>Panel Discussion: How to implement incentives for participation in grants application?</p> <p>Panelists:</p> <ul style="list-style-type: none"> • Jelena Radjenovic (Institut Català de Recerca de l'Aigua (ICRA), Spain) • Djurdja Kerkez (Faculty of Sciences, UNSPMF, Republic of Serbia) • Régis Moilleron (Université Paris-Est Créteil Val de Marne (UPEC), France) • Maja Petrović (Faculty of Technical Sciences, UNS, Republic of Serbia) <p>Moderators: Gordana Vlahović and Ivana Pejović, International Relations and Project Office, UNSPMF</p>
17:15-17:30	WRAP UP AND CONCLUSIONS



Agenda

THURSDAY, 04.04.2024.

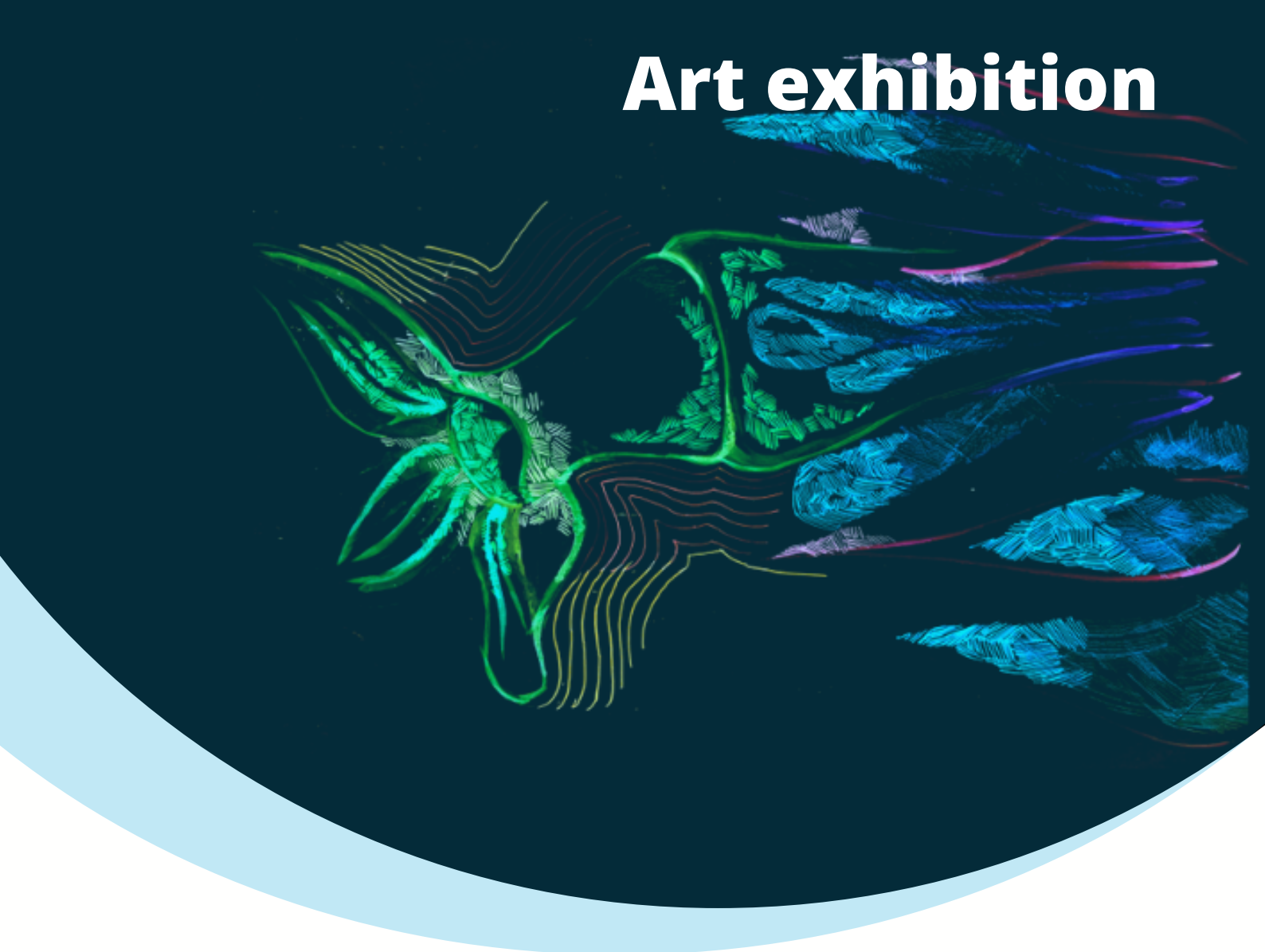
10:10-10:50	Maite Pijuan, (ICRA, Spain): Methane Production Tests: an easy methodology to achieve reliable results in anaerobic digestion research
10:50-11:10	Nataša Duduković (UNSPMF, Serbia): Electrocoagulation in wastewater treatment_LCA in national framework
11:10-11:30	Anita Leovac Mačerak (UNSPMF, Serbia): Application of reclaimed water and sludge in agriculture: opportunities for RS
11:30-12:00	COFFEE BREAK
12:00-13:30	<i>Research Management and Support Session</i> Proposal writing - how to write research grants - focus on Horizon Europe; proposal template, DOs & DONTs, Evaluation Process <ul style="list-style-type: none"> • Laura Bertolini, International Research Officer, Catalan Institute for Water Research, ICRA
13:30-14:00	LUNCH BREAK
14:00-15:30	Horizon Europe Success Stories: Transformation through Twinning projects Speakers: <ul style="list-style-type: none"> • Snežana Maletić, UNSPMF; TwinSubDyn project • Vladimir Beškoski, Faculty of Chemistry, University of Belgrade; PFAStwin project • Nataša Đurišić Mladenović, Faculty of Technology, University of Novi Sad; TwiNSol-CEC project Moderatori: Gordana Vlahović and Ivana Pejović, Ø International Relations and Project Office (UNSPMF) Q&A Wrap up and conclusions
15:30-15:45	COFFEE BREAK
15:45-17:00	Laboratory exercise 1: Application of anaerobic reactor in wastewater sludge treatment; Laboratory exercise 2: Application of electrocoagulation in wastewater treatment



Poster session

- **Nebojša Vasiljević: Possibilities of applying catalysts based on hydrochar for the activation of persulfate in order to eliminate organic micropollutants - a brief overview**
- **Marija Šobić: Removal of pharmaceutical active compounds from water using immobilized laccase**
- **Nataša Sarap: Environmental protection - the importance of radioactivity monitoring**
- **Marija Janković: Significance of measuring tritium in the aqueous matrix**
- **Dušan Rakić: Testing the effectiveness of an extraction method for soil analysis for the presence of pollutants of concern**

Art exhibition



Microbial Metamorphosis: Speculative Visions of Activated Sludge

Have you ever thought about the transformative power hidden in our waste? Imagine a microbial world, full of potential, evolving in our wastewater. What might our invisible friends become in the future? Step into the world of speculative evolution of microbial life, where the ordinary becomes extraordinary, and the microscopic reveals its endless creativity.

'Microbial Metamorphosis: Speculative Visions of Activated Sludge' is an exhibition of works by students of the Academy of Arts in Novi Sad, created during the first year of studies as part of the Fine Arts course. The exhibition takes as a reference the micrographs of activated sludge from the wastewater treatment plant in Subotica, as well as the form of scientific/biological panels that proved to be a perfect practical example of the fusion of biology and art. However, what may initially appear to be a simple illustration of microscopic organisms quickly reveals a different picture of evolution and symbiosis. Combining visual and written form, the works in the exhibition represent the speculative evolution of the microbiological world in wastewater.

But why venture into the world of activated sludge? Beyond its practical applications in wastewater treatment plants, activated sludge is a dynamic ecosystem brimming with life and potential. And just as life cannot arise and survive in isolation - these microscopic organisms remind us of the complex interdependence of all living things and the importance of symbiotic relationships in our ecosystem.



HYBRID event

The entire event will be **HYBRID**, and all those interested will be able to attend the meeting live or online, according to their own choice.

The Microsoft Teams platform will be used during the realization of the online inclusion.

In this way, we want to enable participation in the meeting both for the lecturers and for the wider audience.

See you in hybrid reality !



Contact

Foundation
"Doc dr dr Milena Dalmacija"

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See you...



Welcome to Novi Sad, known as the Serbian Athens, a city that takes pride in its rich past, the exquisite remnants of which still endure and radiate. This is a city where one can experience both tranquility and dynamism. Novi Sad is renowned for its hospitality and beauty, with its cheerful citizens extending a warm, sincere, and friendly welcome with their open hearts.

