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v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

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VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI / INVITATION TO THE
LECTURE WITHIN DOCTORAL PROGRAMME IN
CHEMICAL SCIENCES

Prof. Dr. Virender K. Sharma

Department of Environmental and Occupational Health,
School of Public Health,
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z naslovom / title:

Current Status of Micropollutants in Aquatic Environment

v sredo, 6. 12. 2023 ob 15. uri /
on Wednesday, 6. 12. 2023 at 15.00
v predavalnici 1 v 1. nadstropju Fakultete za kemijo in kemijsko tehnologijo, Večna pot 113 **/ in lecture room 1,** 1st floor at the Faculty of Chemistry and Chemical Technology, Večna pot 113

Vljudno vabljeni! / Kindly invited!

Abstract:

Micropollutants in the aquatic environment have received growing attention in recent years as emerging contaminants due to their potential threats to population health and to aquatic ecosystems. Micropollutants include numerous chemical compounds including pharmaceuticals, personal care product ingredients, and perfluoroalkyl substances. The presentation will overview their concentrations in surface waters, groundwater, and effluents. Results will be compared with global trend of such micropollutants. The micropollutants of concerns are antibiotics (e.g., sulfonamides and trimethoprim) and perfluro compounds (perfluorooctanoic acid, perfluorooctansulfonate, and perfluorobuanoic acid). The presentation will also include the ecotoxicity of these micropollutants towards different groups of organisms, and assessment of the environmental risks to aquatic organisms. The risk data indicate that selected antibiotics may pose a threat to aquatic environments. Finally, great attention is being paid on microplastics (MPs) and nanoplastics (NPs), which are being recognized as a potential global threat to public health and environment. The presentation will summarize the current knowledge on the effect of different environmental factors on the fate of MPs and NPs in an aquatic environment.