

EMEC 22

**22nd European Meeting on
Environmental Chemistry**

**22nd EUROPEAN MEETING ON
ENVIRONMENTAL CHEMISTRY
PROGRAMME**



**ASSOCIATION OF
CHEMISTRY AND THE
ENVIRONMENT**

University of *Ljubljana*
Faculty of *Health Sciences*



Monday, Dec 5 th , 2022	
10:00-16:00	Pre-conference Tour to Bled (optional)
16:00-18:00	Registration (Grand hotel Union)
18:00-21:00	Get together at Grand hotel Union

Tuesday, Dec 6 th , 2022			
07:30-08:30	Registrations		
08:30-09:00	Opening Ceremony		
09:00-09:45	Plenary Lecture	Emerging Chemicals: A Journey from Source to Environment	Prof. Ester Heath
09:45-10:00	Session: Water	HPLC-HRMS Determination in Water Environment of Anticancer Drugs Subjected to Heterogenous Photocatalysis Mediated by Semi-Conductor	Federica Dal Bello
10:00-10:15		Design and Manufacture of an in-situ Extraction Functionalized Device Using 3D Printing for the Determination of Sulfonamides from Water Samples by HPLC-DAD	Diego Barzallo
10:15-10:30		Enantiomeric Determination of Main Fluoroquinolone Antibiotics and Their Metabolites in Wastewater and Surface Water	Irene Aparicio Gomez
10:30-10:45		Formation and Decomposition of Thiocyanate in Natural Aquatic Systems	Alexey Kamyshny
10:45-10:55		Session Discussion	
10:55-11:25	Coffee break & Poster Session		
11:25-11:55	Keynote Lecture	Adsorption process puzzle in novel water treatment for organics removal	Prof. Ivana Ivančev Tumbas
11:55-12:10	Session: Water	Nutrient Removal and Recovery from Water Using Functionalised Biochars	Szabolcs Pap
12:10-12:25		Natural Abiotic Degradation of Phenol and Chlorophenol in Aquatic Environment	Aleksander Kravos
12:25-12:40		Ionic and Porous Materials for Efficient and Sustainable Water Purification Processes	Luis Branco
12:40-12:55		Development of a New Synthetic Chalcone as a Promising Non-Toxic Antifoulant for the Prevention of Marine Biofouling	Daniela Pereira
12:55-13:10		Session Discussion	
13:10-14:25	Lunch		
14:25-14:40	Session: Water	Water Pollution Threats in Important Bird and Biodiversity Areas	Maria Dulsat-Masvidal
14:40-14:55		Environmental Quality of the Hyporheic Zone of the Sava River Under Anthropogenic Influence	Marijana Erk
14:55-15:10		Photochemical Fate of Organic Micropollutants in the Sea Surface Microlayer	Carole Abdel Nour
15:10-15:25		Distribution and Remobilization of Organic Pollutants by Floods - the Case Study Rur River, Germany	Christina Alina Schwanen
15:25-15:40		Monitoring of the Occurrence and Patterns of Regulated Persistent Organic Pollutants and Emerging Flame Retardants in the Eastern French Mediterranean Coastline	Camille Rigal
15:40-15:55	Session Discussion		
15:55-16:25	Coffee break & Poster Session		
16:25-16:55	Keynote Lecture	Public health advances in environmental monitoring and disinfection by nanotechnologies	Dr Guisy Lofrano
16:55-17:10	Session: One Health	Innovative Data Visualisation Tool to Aid Addressing Pharmaceutical Pollution in the Scottish Water Environment	Lydia Niemi
17:10-17:25		Assessing Particle Toxicity of Two African Cities Using the Ascorbic Acid Assay	Eduardo José dos Santos Souza
17:25-17:40		Mass Flow Balance of Gadolinium-Based Contrast Agents in Workplaces with Magnetic Resonance Imaging Services	Frederika Mišíková
17:40-17:50		Session Discussion	
17:50-18:30	Ljubljana by night		
18:30-22:00	Early-career workshop & social		

Wednesday, Dec 7th, 2022

Wednesday, Dec 7 th , 2022			
07:30-08:30	Registrations		
08:30-09:15	Plenary Lecture	Air pollution and health: New methods for characterisation of composition and biological effects of anthropogenic and biogenic emissions as well as ambient aerosols	Prof. Ralf Zimmermann
09:15-09:30	Session: Atmosphere	Insights into Fenton-like reaction in the presence of oxalate complexes and implications for the atmospheric aqueous phase	Daniele Scheres Firak
09:30-09:45		Solving the mystery of the Chukotka stinky Gray whales	Albert T. Lebedev
09:45-10:00		Comparing Smoke and Aerosols from Classic and Electronic Cigarettes, and from "Heat-not-Burn" Devices	Borut Poljšak
10:00-10:15		Air Quality Mobile Monitoring Campaign in Novi Sad Urban Area in Winter and Summer 2022	Miloš Davidović
10:15-10:30		Session Discussion	
10:30-11:00	Keynote Lecture	Nanoplastics in the environment	Dr. Dušan Materić
11:00-11:30	Coffee break & Poster Session		
11:30-12:00	Keynote Lecture	Studies on sampling and molecular characterization of bioaerosol viral and bacterial components in outdoor and indoor environments	Prof. Pierluigi Barbieri
12:00-12:15	Session: One Health	Gasoline additives in groundwater in Paraguay - case study: Methyl t-butyl ether in the Patiño Aquifer	Juan F. Facetti
12:15-12:30		Assessing the Nature and the Impact of By-Products Issued from Industrial Chlorinated Discharges into the Sea	Jean Luc Boudenne
12:30-12:45		Impact of Polyhydroxybutyrate Microparticles on the Floating Freshwater Plant Duckweed <i>Lemna minor</i>	Petra Procházková
12:45-13:00		Session Discussion	
13:00-14:15	Lunch		
14:15-14:45	Keynote Lecture	Promising bioactive compounds from marine macroalgae: from basic research to potential application	Dr. Sanja Babić
14:45-15:00	Session: One Health	At-Source Hospital Wastewater Treatment To Eliminate Harmful Pharmaceuticals: A Novel Approach Using UV-LED Activated Photocatalytic Nanomaterials	Manuel Thomas Valdivia
15:00-15:15		Implications of Polystyrene Microplastics on the Gastric Digestion of Bovine Milk	Maria Krishna de Guzman
15:15-15:30		The Role of Secondary Metabolites from <i>Cannabis Sativa</i> L. in Health	Roman Štukelj
15:30-15:45		Session Discussion	
15:45-16:15	Coffee break & Poster Session		
16:15-16:45	Keynote Lecture	What does the circular economy really mean in our daily lives?	Prof. Güray Salihoğlu
16:45-17:00	Session: Sustainability	Urban Wastewater Treatment and Volatile Methylsiloxanes Removal with Microalgal Cultures	Eva Margarida Salgado
17:00-17:15		Fatty Acid Profile of <i>Dunaliella tertiolecta</i> in Response to Different Selenium Concentrations	Maja Galić Perećinec
17:15-17:30		Plastic Waste Material as a Sustainable Source of Alternative Fuels and Valuable Chemicals	Ivana Jovančičević
17:30-17:45		Development of Ionic Liquid Based Hydrogels for Iron and Cooper Metallic Patinas on Stone Surfaces	Pablo Irizar
17:45-18:00		New Reactor Approach for Low-Temperature Catalytic Methane Decomposition	Vitor Pereira
18:00-18:15		Session Discussion	
18:15-19:30	Pre-Conference dinner time		
19:30-23:30	Conference dinner		

Thursday, Dec 8th, 2022			
08:30-09:15	Plenary Lecture	Soils, a sink for legacy and emerging pollutants. Impacts in natural areas	Prof. Silvia Lacorte
09:15-09:30	Session: Soil & Solid Matrices	Geochemical and Ecotoxicity Properties of Therapeutic Peloid Muds from Serbia and Slovenia	Gorica Veselinović
09:30-09:45		Spatial and Temporal Distribution of Volatile Methylsiloxanes in Sand	Nuno Ratola
09:45-10:00		Salinity and Flooding Mobilize Mercury from Polluted Soils and Sediments	Elisa Pellegrini
10:00-10:15		Geochemical Characterization of Different Areas of the Portuguese Continental Shelf for Potential Aquaculture	Carla Mesquita Palma
10:15-10:30		Bergamot Pastazzo as Suitable Platform for Cd ²⁺ Removal and Sensing in Multicomponent Aqueous Solutions	Anna Irto
10:30-10:45		Session Discussion	
10:45-11:15	Coffee break		
10:45-11:15	ACE General Assembly		
11:15-11:45	Keynote Lecture	Photocatalysis for pollution remediation: treating air, water and hard surfaces	Dr. Andraž Šuligoj
11:45-12:00	Session: Water	Photodegradation of Triclosan on the Kaolinite Surface: Aqueous Phase Photodegradation and Molecular Modelling of the Clay Surface Interactions	Mohamed Sarakha
12:00-12:15		Fenton and Fenton-like Processes for the Removal of Emerging and Recalcitrant Contaminants from Wastewater	Davide Vione
12:15-12:30		Reactivity and Photodegradation Mechanism of Metazachlor in Aqueous Phase: Determination of the Rate Constants and Identification of the Main Photoproducts	Gilles Mailhot
12:30-12:45		Bisphenols S, Poorly Determined Substitute of Bisphenol A - Comparison of Electrochemical and Chromatographic Detection in Water Media	Kristina Žagar Soderžnik
12:45-13:00		Photocatalytic Removal of Nine Pesticides by Graphitic Carbon Nitride Coated Recycled Glass Beads and Economical UV-A 365 nm LEDs	Indira de Menezes Castro
13:00-13:15		Synergistic Action of UV Irradiation and Hydroxyl Radicals: Removal of Emerging Contaminant from Water	Praveen Kumar
13:15-13:30	Session Discussion		
13:30-14:00	Awards & Closing Ceremony		
14:00-15:15	Lunch		
15:30-17:30	Visit of Ljubljana & Ljubljana Castle		