



PROGRAM

Chair: Marko Keskinen, Aalto University
Moderator: Liisa Mayow, Kaskas Media

Day 1 Wednesday, 6 June

8:30-9:30 Registration and Coffee

OPENING CEREMONY

9:30-10:00 *Kimmo Tiilikainen*, Finnish Minister of the Environment, Energy and Housing
Heikki Mannila, President of the Academy of Finland

OPENING SESSION

10:00-10:30 The Water JPI and its contribution to the Emerging Pollutants challenges
Padraic Larkin, Water JPI Vice-Chair
Research and innovation in support of EU water policy
Pavel Misiga, Head of the Eco-Innovation Unit, European Commission

SESSION I: Emerging pollutants: occurrence and management

10:30-11:15 KEYNOTE: Water fingerprinting to inform the state of the environment and public health
Barbara Kasprzyk-Hordern, University of Bath

11:15-11:30 Emerging viruses in irrigation waters
Rosina Girones, University of Barcelona

11:30-11:45 Chemical status of freshwaters in Finland, Europe
Jaakko Mannio, Finnish Environment Institute

11:45-12:00 Microplastic concentrations in surface water at Lake Kallavesi
Arto Koistinen, University of Eastern Finland

12:00-13:00 Lunch

SESSION I continues

13:00-13:15 A framework to assess and manage contaminants of emerging concern in indirect potable reuse: Water-JPI FRAME project
Kevin Jewell, The German Federal Institute of Hydrology

13:15-13:30 Decision support tool for establishing an action plan aiming to decrease the discharge of micro pollutants into sewage system networks
Jolanda Boisson, IRH Ingénieur Conseil

13:30-13:45 Mitigation of waterborne microbiological and chemical health risks – options and costs to reduce the source water contaminants
Päivi Meriläinen, National Institute for Health and Welfare

13:45-14:00 Monitoring strategy, annual fluxes and risk assessment of emerging contaminants in a catchment scale
Zulin Zhang, The James Hutton Institute

14:00-14:15 Policy corner

SESSION II: Policy Brief on emerging pollutants – Water JPI Pilot Call

Launch of the Policy Brief
Panel discussion:
Steven Eisenreich, Vrije Universiteit Brussel
14:15-15:00 *Despo Fatta-Kassinos*, Nireas-IWRC, University of Cyprus, Chair of the Water JPI Scientific and Technological Board
Kevin Jewell, The German Federal Institute of Hydrology
Annemarie van Wezel, KWR Water

15:00-15:30 Coffee

SESSION III: Ecological effects and risk assessment of emerging pollutants

15:30-15:45 Optimized risk assessment of hazardous chemicals typically present in Finnish municipal wastewaters
Heli Ratia, Finnish Environment Institute

15:45-16:00 Pesticide mixtures in the aquatic environment: risks of neonicotinoids and other pesticides to aquatic biota
Victor Carrasco Navarro, University of Eastern Finland

16:00-16:15 Bearing the burden of diffuse waterborne pollutants – a confession from phytoplankton communities
Didier Baho, Norwegian Institute for Water Research (NIVA)

16:15-16:30 Contaminants of emerging concern in sub-Saharan African aquatic systems
Titus Msagati, University of South Africa

Session IV: UN SDG, emerging pollutants & the role of Water JPI? – Challenges in countries beyond Europe

Introductory talk: *Seppo Rekolainen*, Finnish Ministry of Agriculture and Forestry, Vice-Chair of Water JPI Scientific and Technological Board
Panel discussion:
16:30-17:30 *Nonhlanhla Kalebaila*, Water Research Commission of South Africa
Olli Varis, Aalto University
Sarantuyaa Zandaryaa, UNESCO
Wrap-up: *Bjørn Kaare Jensen*, Geological Survey of Denmark and Greenland

18:00-21:00 POSTER SESSION WITH WINE & SNACKS

UPDATED PROGRAMME

Day 2 Thursday, 7 June

9:00-9:15 SECOND DAY OPENING WORDS
Mari Walls, President & CEO of Natural Resources Institute Finland

SESSION V: Options and strategies for monitoring and remediation of pollutants

9:15-10:00 KEYNOTE: Technical solutions and strategies to monitor and reduce pollutants
Fiona Regan, Director of the DCU Water Institute, Prof. of Chemistry at Dublin City University

10:00-10:15 Determination of precursors of perfluoroalkyl acids in surface and wastewaters: application to some case studies
Stefano Polesello, CNR-IRSA Water Research Institute

10:15-10:30 Occurrence and removal of compounds of emerging concern during soil aquifer treatment
Nina Hermes, The German Federal Institute of Hydrology

10:30-10:45 Persistent, mobile and now partially known. The potential threat to drinking water resources by persistent, mobile organic compounds (PMOCs)
Thorsten Reemtsma, Helmholtz Centre for Environmental Research

10:45-11:10 Coffee

SESSION V continues

11:10-11:25 Safe water systems in Arsenic polluted agricultural areas using a novel Schwertmannite-based absorbent
Isabel Jordan, GEOS Ingenieurgesellschaft mbH

11:25-11:40 Development of an efficient and sustainable methodology for emerging pollutants removal in WWTPS
Maria Carmen Lasheras Ruiz, Laboratorios Tecnológicos de Levante

11:40-11:55 Technologies for the removal of pharmaceuticals from wastewaters
Mika Mänttari, Lappeenranta University of Technology

11:55-12:10 Secondary amine N-nitrosation processes contribute to the increase of genotoxicity of nitrate-rich wastewater under UV-C treatment
Serge Chiron, Montpellier University

12:10-12:25 Intensification of UV-C tertiary treatment: disinfection and removal of micropollutants by sulfate radical based advanced oxidation processes
Jukka Pellinen, University of Helsinki

12:25-12:40 Policy corner

12:40-13:35 Lunch

SESSION VI: Tackling emerging pollutants: joining forces for greater success

Capacity building and Cooperation: Water JPI Knowledge Hub vs. COST action – What is needed
13:35-14:20 Introductory talk: *Despo Fatta-Kassinos*, Nireas-IWRC, University of Cyprus, Chair of the Water JPI Scientific and Technological Board
Panel discussion with representatives of different P2Ps

SESSION VII: Water quality and human health: the challenge for the future

14:20-14:35 Occurrence and distribution of contaminants of emerging concern along the Ergene River during dry seasons
~~Seyedmehdi Emadian~~, Bogazici University **Ulas Tezel**

14:35-14:50 Chloramphenicol as an emerging environmental pollutant and a potential driver of antimicrobial resistance
Felicity Elder, University of Bath

14:50-15:05 Occurrence of pharmaceuticals residues and endocrine disruptors in a waste water treatment plant-impacted rivers of Krakow agglomeration in South Poland
Katarzyna Styszko, AGH University of Science and Technology

15:05-15:20 Policy corner

15:20-15:45 Coffee

15:45-16:00 Target analysis of a large number of mineralocorticoids, glucocorticoids and progestogens in wastewater and receiving surface waters
Alexander Weizel, Federal Institute of Hydrology

16:00-16:15 Human exposure to antibiotic resistant *Escherichia coli* through drinking, irrigation and recreational water
Eithne O'Flaherty, University College Dublin

16:15-16:30 Antibiotic resistance, an emerging pollution in river environments in Indonesia
Windi Muziasari, University of Helsinki

~~Nanoparticles and their fate in the environment, health impact and risk assessment~~
~~Marianne Matzke~~, NERC-CEH **CANCELLED**

16:45-17:00 Concluding words
Maurice Heral, Water JPI Chair