

Water & Health, new frontier of Eco-poverty

The cross-sectoral engagement of International Cooperation

VIII Rome International Workshop RIW2023

Tuesday 18th July 2023 3:00 pm - 7:30 pm CEST free online

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Registration at this link: <https://us06web.zoom.us/j/85431350847?pwd=cmNBcE9hRHI4VkE3SkJFWFZuckxrZz09>

Session 1 - Water pollution

3:00 pm

Freshwaters and sea/ocean waters are widely threatened by the spread of a large range of pollutants, hitting both the living organisms that have their natural habitat in those waters and the human population. In this session we explore what kinds of harms raise by polluted waters, especially transboundary, and how they contribute to enlarge Eco-poverty by affecting specific vulnerable target-groups.

- Introduction by Gabriella Petrina (VIS Advanced Studies School) – Massimo Zortea (University of Trento)
- *Emerging chemicals and mixtures in the aquatic ecosystems: research and policy aspects*
Mario Carere (ISS Italy)
- *Water pollutants exposure and poorest population vulnerability*
Giovanni Leonardi (Health Security Agency United Kingdom)
- *Water pollution prevention and remediation in urban areas: the role of microbiology*
Lilian Carla Carneiro (Universidade Federal de Goiás UFG Brazil)

Moderator: Simone Santoro

Rapporteur: Manuela Mastrovito/Andrea Barbanti

Session 2 - Water scarcity

4:00 pm

Ecosystems provide humankind with the service of water provisioning in response to an increasing demand of water resources. Environmental degradation and climate changes effects are seriously affecting water availability, ending in large phenomena of water scarcity, with critical damages to ecosystems. The problem is worsened by an irregular distribution of effects, both time and geographical, ending in heavy inequalities and vulnerabilities, a relevant dimension of Eco-poverty. In this session we discuss with the panelists about causes and effects of those phenomena.

- *Aquatic Ecosystems and Health*
Laura Mancini (ISS Italy)
- *Desalination technologies in European and global experiences*
Luca Sbardella (ACCIONA Water Business Spain)
- *Water consumption in Nairobi City area: a behavioural approach for climate change scenarios*
Luca Pavan (IDEA Studi e ricerche Italy)

Moderator: Luca Avellis

Rapporteur: Manuela Mastrovito/Andrea Barbanti

Session 3 - Water overexploitation

5:00 pm

In all the planet Earth the demand of water resources is more and more increasing due to several different purposes not related with personal/domestic consumption (human nutrition and hygiene): among the main, agricultural, industrial and energy purposes. But the resilience of water supply systems, both natural and artificial, is under severe threats, even due to a great waste of resources that could be better exploited. In this session we analyse the current scenarios and some experiences of efficiency improvement, thanks to new techniques and technologies.

- *Technological innovations to reverse the trends in water supply demand and overexploitation risks*

Angiolo Martinelli (MASE Italy) **to be confirmed

- *Nature-based Solutions for the recovery of non-conventional water resources*

Anacleto Rizzo (Iridra Italy)

- *Water, Energy, and Food Nexus: private sector perspectives and integrated approaches*

Stefano Fabiani (CREA Italy)

Moderator: Mariachiara Boldrini

Rapporteur: Manuela Mastrovito/Andrea Barbanti

Session 4 - Wastewater

6:00 pm

UN Water reports that in 2020 slightly more than half (56 per cent) of household wastewater was estimated to have been safely treated prior to discharge, all around the world. So, 44% of those wastewaters are still discharged without any treatment, with serious health risks for the population, especially the most vulnerable target-groups, and for nature, as well. In this session we reflect on how to deal with the challenge of recovering wastewater and protecting people, through appropriate technologies and investments, according to different contexts.

- *Wastewater treatment with phytoremediation in Iraq*

Davide Tocchetto (private consultant Italy)

- *From wastewater to new life: sewage sludges recycling*

Daniele Basso (HBI Italy)

Moderator: Cristiano Scaramella

Rapporteur: Manuela Mastrovito/Andrea Barbanti

Main findings and closing remarks

7:00 pm

- *Main findings from the four thematic sessions*

Rapporteurs

- *Lessons learnt for VIS mission*

Michela Vallarino (VIS President)

- *Closing remarks*

Massimo Zortea (University of Trento)