

10th Water Research Horizon Conference 2019
18 June 2019 | Geozentrum Hannover

Information of Open Space Workshop d

Title of the workshop	Food safety meets water quality (FS meets WQ)
Moderator*s/ organisator*s	Dr. Dima Faour-Klingbeil University of Plymouth, UK / DFK for Safe Food Environment
Objective of the workshop	<p>The main objective of this workshop is to delineate pivotal food safety issues and their respective problems as affected by water quality and scarcity by,</p> <p>(1) shedding light on the health risks associated with the use of microbiologically compromised water quality in the food systems, and</p> <p>(2) presenting relevant experiences on promising solutions and limitations of wastewater treatment technologies in improving microbial quality of water, persistent and emerging hazards in treated water, and risk-based approach as an instrumental framework advocated by the World Health Organization and recently the European Commission.</p>
Expected outcome	The expected outcome is to identify major water and food safety issues and gaps where multidisciplinary collaborative research between food microbiologists/food safety scientists and water scientists can be established to address food safety hazards and their threats to human health. Eventually, this workshop calls for complementary efforts of both disciplines in alleviating health risks associated with the use of reclaimed water.
Short abstract of the topic	Water scarcity compounded by climate change is a growing global problem. To overcome shortages, reclaimed water is widely used in industrial processes and agriculture settings. More concerning, the arid and semi-arid areas and many developing countries are particularly affected by frequent droughts and this is promoting unregulated use of untreated wastewater in the agricultural production systems.

	<p>This, together with other climate-driven changes, e.g., increasing contamination of water and pathogens behaviors, can have considerable impacts on the safety of food. Addressing water quality and implications on food safety are key in devising sustainable solutions and in identifying future needs for the development of technologies that control and eliminate the emerging food safety hazards.</p>
<p>Planned course</p>	<ul style="list-style-type: none"> - Introduction (Dr. Dima Faour-Klingbeil) (5 min) - Presentations : <ul style="list-style-type: none"> o Dr. Sharma Manan, USDA ARS, Environmental Microbial and Food Safety Laboratory, (The intersection of food safety and water availability in agricultural environments) (15 min) o Short video clip on the “Health risk assessment along the wastewater and faecal sludge management reuse chain in Kampala, Uganda” (5 min) o Dr. Leon Gorris, Chairperson of JEMRA working group on Re-Use of Water within Food Processing Industry, (A risk-based framework to guide the safe re-use of water within the food processing industry) (15 min) o Dr. Othman Al mashaqbeh, Royal Scientific Society, (The role of treated wastewater in food production and future challenges in Jordan) (15 min) o Round table discussion to boost dialogue between the water and food safety scientists and foster new ideas, knowledge sharing, and exchange of research questions. It is planned to come out with at least 3 key aspects of research challenges that merit further attention (60 min)