H2020-MSCA-ITN-2015/675530

ANSWER Summer School Programme

12 - 23 June 2016, Barcelona, Spain

ORGANIZER: Nireas International Water Research Center, University of Cyprus

HOST ORGANIZATION: CSIC

Time	Sunday 12/6	Monday 13/6	Tuesday 14/6	Wednesday 15/6	Thursday 16/6	Friday 17/6
8:30-9:00		–	–	ESRs meeting: Selection of 2 ESRs as representatives in the Supervisory Board	–	–
9:00-10:00		An overview on the wastewater reuse practices and current challenges **D. Fatta-Kassinos, Nireas-IWRC, UCY, CY**	Dynamics of antibiotic resistance in crop production systems* **E. Topp, AAF Canada**	Health aspects considerations in Israeli regulation updating, regarding treated effluents reuse **D. Weinberg, Ministry of Health, Israel**	Prioritisation of contaminants under the Water Framework Directive **V. Dulio, NORMAN Association**	Risk assessment of contaminants of emerging concern in the urban water cycle **J. Slobodnik, EI, Slovakia**
10:00-11:00		Brief presentation of the ANSWER project **D. Fatta-Kassinos, Nireas-IWRC, UCY, CY** Discussion	Chemistry and fate of contaminants of emerging concern in wastewater reuse systems **M. Mills, US EPA, US**	The Braunschweig model, a water-nutrient-energy cycle; - wastewater irrigation in agriculture - **B. Teiser, AVBS, Germany**	A European perspective on Data Collection and Risk Assessment in order to address the spread of antimicrobial resistance through the food chain **E. Liebana, EFSA, Italy***	Computer tools for identification of compounds using LCMS **M. Raab, HighChem, Slovakia**
11:00-12:00		Wastewater reuse in Singapore: Technology overview and challenges **T.T. Lim, Nanyang Technical University, Singapore**	TPs of contaminants of emerging concern in the environment: analysis, processes, occurrence, effects and risks **D. Lambropoulou, AUTH, Greece**	Water systems management under dynamic stress - fundamental considerations for wastewater reuse **H. Kroiss, IWA, Austria**	Advanced wastewater treatment by ozonation and activated carbon **N. Kreuzinger, TU-Wien, Austria**	Molecular analysis and fate of ARG in surface water and sediment samples **L. Hornstra, KWR, The Netherlands**
12:00-13:30	**ESRs arrival**	**LUNCH**	**LUNCH**	**LUNCH**	**LUNCH**	**LUNCH**
13:30-14:30		Oxidative treatment of municipal wastewater effluent for micropollutant elimination and disinfection: options and limitations **Y. Lee, Gwangju Inst. of Science & Technology, South Korea**	Introduction to genomic/ bioinformatic tools applied in environmental microbiology **E. Cytryn, ARO, Israel**	**Mass spectrometry guided tour at CSIC** **Parallel meeting of Advisory/Supervisory Boards**	Design and scale-up of advanced oxidation treatment processes **S. Castro-Silva, Adventech, Portugal**	Cell-based bioassays for environmental monitoring: possibilities and obstacles **H. Besselink, BDS, The Netherlands**
14:30-15:30		Bacterial diversity and eco-physiology in water and soil **C. Manaia, UCP, Portugal**	Integrated approach for the analysis of the antibiotic resistance in the environment **Th. Berendonk, TUD, Dresden**	**Visit at the Cosmo Caixa Museum** **Parallel meeting of Advisory/Supervisory Boards**	The Windhoek/Namibia multiple barrier approach for direct potable reuse **J. Lahnsteiner, WABAG, Austria**	Molecular profiling of soils with microbial populations **E. Jurkevitch, HUJI, Israel**
15:30-16:30		Biotic/abiotic factors stimulating horizontal gene transfer in aquatic microbiomes **T. Schwartz, KIT, Germany**	Risk assessment of horizontal ARG transfer in soil and sludge environments **M. Woegerbauer, AGES, Austria**		Presentation and discussion of PCDPs **N. Kreuzinger, TU-Wien, Austria** **L. Hornstra, KWR, The Netherlands** **D. Fatta-Kassinos, Nireas-IWRC, UCY, Cyprus**	Urban wastewater disinfection by advanced oxidation processes: ARB inactivation-effect on antibiotic resistance **L. Rizzo, UNISA, Italy**
16:30-17:30	Registration	–	–	–	Human health risk assessment of environmental contaminants: the past and the new challenges **E. Di Consiglio, ISS, Italy**	–
17:30-18:30	Guided tour	–	–	–	–	–
18:30-20:30	Reception	–	–	–	–	–
20:30-22:30		–	–	**DINNER**	–	–

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Time	Monday 20/6	Tuesday 21/6	Wednesday 22/6	Thursday 23/6
9:00-10:00	**ESRs DAY** - Presentation of projects - Brainstorming - Identification of synergies among projects **Coordinated by. I. Michael-Kordatou and D. Fatta-Kassinos Nireas-IWRC, UCY, Cyprus**	Fate of microcontaminants in crops: uptake, metabolization, effects on cellular growth* **J. Bayona, CSIC, Spain**	Natural treatment systems* **V. Matamoros, CSIC, Spain**	Modeling the fate of contaminants in soil. Basis for modelling of the process* **J. Comas, TU Catalonia, Spain**
10:00-11:00		Nucleic acid quantification methods to assess ARG/strains in soils, sludge, water samples **B. Piña, CSIC, Spain**	**Study tour to the Can Cabanyes-Besós river wetlands**	Ethics in research **P. Puigdomenech, CSIC, Spain**
11:00-12:00		TPs through high resolution mass spectrometry **S. Pérez, CSIC, Spain**		
12:00-13:30	**LUNCH**	**LUNCH**	**LUNCH**	**LUNCH**
13:30-14:30	**ESRs DAY** - Presentation of projects - Brainstorming - Determination of synergies among their projects **Coordinated by I. Michael-Kordatou and D. Fatta-Kassinos Nireas-IWRC, UCY, Cyprus**	**Study tour to the Depurbaix WWTP**	Uptake of trace elements by crops* **S. Diez, CSIC, Spain**	Bioethics in research **C. Barata, CSIC, Spain**
14:30-15:30			Molecular modeling of organic microcontaminants** **C. Hurtado, CSIC, Spain**	**Roundtable discussion & Summer School Closing**
15:30-16:30		**Study tour to the Mesocosmos** (Agropolis, Viladecans)	**Visit to the Barcelona Supercomputing Center**	

*** Specialized Scientific Course1: Mechanisms and processes involved in crops uptake.**
**** Training Event.**

Organizations involved: AAF Canada: Agriculture and Agri-Food Canada; **Adventech:** Adventech - Advanced Environmental Technologies LDA; **AGES:** Austrian Agency for Health and Food Safety; **ARO:** The Ariculture Research Organization of Israel - The Volcani Centre; **AUTH:** Aristotle University of Thessaloniki; **AVBS:** Abwasserverband Braunschweig; **BDS:** BioDetection Systems bv; **CSIC:** Agencia Estatal Consejo Superior de Investigaciones Cientificas; **EFSA:** European Food Safety Authority; **EI:** Environmental Institute; **HUJI:** The Hebrew University of Jerusalem; **ISS:** Istituto Superiore di Sanità; **IWA:** International Water Association; **KIT:** Karlsruhe Institute of Technology; **KWR:** KWR Water B.V.; **Nireas-IWRC, UCY:** Nireas International Water Research Center, University of Cyprus; **TUD:** Technische Universität Dresden; **TU-Wien:** Technische Universität Wien; **UCP:** Universidade Católica Portuguesa; **UNISA:** Università degli Studi di Salerno; **US EPA:** United States Environmental Protection Agency; **WABAG:** VA TECH WABAG GmbH.

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