

Water research in perspective: beyond 2020

Program 10-y ICRA Conference

Oral presentations

Oral presentations (except invited) are 5-min flash presentations, scheduled in six different themes. After finalizing each of the themes, a short joint discussion is also planned. Presentations (ppt) will be uploaded on the same day before the conference starts. All presentations will be recorded and remain available at ICRA's website after the conference.

| | Title | Speaker | Chair session |
|--|---|--|-------------------|
| 11:30-11:45 | Water 5.0- A new paradigm in the context of circular economy | Ignasi Rodriguez-Roda | Sergi Sabater |
| TECHNOLOGICAL AND NATURE BASED SOLUTIONS FOR CLOSED LOOP CITIES | | | |
| 11:45-12:15 | CLEaN-TOUR. Circular Economy to facilitate urban water reuse in a touristic city | Esther Mendoza | Wolfgang Gernjak |
| | Electrochemical Oxidation of Poly- and Perfluoroalkyl Substances (PFASs) with a Ti/TiO ₂ -nanotube (NT)/Bi-SnO ₂ Anode | Nick Duinslaeger | |
| | Online UV-Vis spectrometry to detect and quantify hydrocarbons in different types of wastewater. A new criterion using clustering algorithms to select the most suitable regression model | Mireia Pla–Castellana | |
| | Manganese oxide-based porous electrodes for rapid and selective (electro)catalytic removal and recovery of sulfide from wastewater | Natalia Sergienko | |
| 12:15-12:20 | Discussion | | |
| INTEGRATED WATER MANAGEMENT AND ALTERNATIVE WATER SOURCES | | | |
| 12:20-12:50 | Development of decision support tools to enhance edible nature-based solutions (eNBS) implementation, connectivity, ecosystem services assessment and sustainability performance | Joana Castellar | Jelena Radjenovic |
| | GESTOR: a new tool for the proactive management of sewer systems | Sílvia Busquets | |
| | Managing the scarcity – Water for preserving the uses of temporary streams | Didac Jordà-Capdevila | |
| | Development and testing of a decision-support system to facilitate the implementation of nature-based solutions for urban water sanitation | Vicenç Acuña | |
| 12:50-12:55 | Discussion | | |
| 13:00-13:30 | Plenary “Emerging micropollutants in the NZ Dairy Farming Environment: Buzz words or Reality Check?” | Ajit Sarmah (University Auckland, New Zealand) | |
| 13:30-14:30 | Lunch | | |

| FRESHWATER ECOSYSTEMS UNDER THREAT | | | |
|--|--|------------------------------|---------------------|
| 14:30-15:15 | A solution to the water scarcity problem on the Mediterranean countries: HYDROUSA, closing the loops | Marc Castaño | Lúcia Helena Santos |
| | Microplastics and microcontaminants in the Mediterranean coast: Environmental and human health impacts (PLAS-MED) | Natalia Ospina-Alvarez | |
| | Is the Mar Menor lagoon (SE Spain) taking a break from pharmaceutical pollution? A decade of pharmaceutical monitoring in a threatened Mediterranean coastal ecosystem | Jose Castaño-Ortiz | |
| | The ecology of stream biofilms under water scarcity, warming and chemical pollution | Anna Freixa | |
| | Antibiotics and antibiotic resistance genes in natural springs as tracers of agricultural contamination | Merixell Gros | |
| | Pharmaceuticals in groundwater: an inconvenient occurrence | Josep Mas-Pla | |
| 15:15-15:20 | Discussion | | |
| THE HIDDEN ROLE OF BIODIVERSITY | | | |
| 15:20-15:35 | Professor mosquito: five lessons to be learned from those insects and applied to research in science and technology | Juan David González-Trujillo | Carles Borrego |
| | Biodiversity under stress: knowns and unknowns | Sergi Sabater | |
| 15:35-15:40 | Discussion | | |
| WATER OMICS AND HIGH RESOLUTION MASS SPECTROMETRY | | | |
| 15:40-16:00 | Wastewater-based epidemiology | Ivan Senta | Mira Petrovic |
| | Mass spectrometry applied to the study of carbon cycling in freshwaters | Núria Catalán | |
| | Fingerprinting dissolved organic matter in natural waters to predict N-Nitrosodimethylamine (NDMA) | Maria José Farré | |
| 16:00-16:05 | Discussion | | |
| BEYOND SCIENCE HOW TO SYNCHRONIZE RESEARCH, MANAGEMENT AND POLICY | | | |
| 16:05-16:10 | Blending researchers' and practitioners' views on the impact of spread of antibiotic resistance by bacteriophages for the water industry | Ana de Almeida | Quim Comas |
| 16:10-16:40 | Plenary "Beyond science: how to synchronize research, management and Policy" | Richard Elelman (Eurecat) | |

POSTER SESSION

Posters need to be placed on site early in the morning of the 26th at the TIA's ICRA corridor. Posters might follow standard size (max 100 width) and will be mounted vertically.

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| Developing the next generation of UV-based advanced oxidation technologies using a dual wavelength approach: VUV/UVC/H ₂ O ₂ | Nimmy Kovoov George |
| Migratory birds as vectors of antibiotic resistance: preliminary studies in Andalusia | Dayana Jarma/Carles Borrego |
| Detection of antibiotic resistance genes in genomes from wastewater bacteriophages | Clara Pérez Vega/Carles Borrego |
| Combination of Target analysis, Non-target screening and metabolomics tools for unraveling xenobiotic presence and effects in wild fish from Ebro River. | Ruben Gil |
| Interactive effects of microplastics and the antibiotic clarithromycin on river biofilms: an ecotoxicological perspective | Lúcia Helena Santos |
| Can Nanomaterials Reduce Organic Micropollutants? | Michele Ponzelli |
| CO ₂ Dynamics of The Sediment in Lake Gallocanta | Duygu Tolunay |
| Graphene Oxide Foam for Electrochemical Elimination of Pollutants | Luís Baptista-Pires |
| Characterization of organic matter in reservoir waters: Effects of chlorination on molecular fingerprints and correlation with DBP formation potential | Josep Sanchís |
| RGO coated graphite granules as particle electrodes in 3D EC reactor for the reduction of persistent contaminants | Giannis-Florjan Norra |