



## *Water research in perspective: beyond 2020*

This **10y-ICRA Conference** is a celebration of the ICRA's first decade of research on water science and technology. It aims to showcase our recent contributions to the challenges associated with the limited water resources and rising threats to water security, from the ecosystem-to-tap water continuum and vice-versa.

New pressures, including climate change and rising urbanization, affect both natural and engineered systems: flood and drought risks, water quality, emerging pollutants, invasive species, among others. At the same time, new perspectives on environmental management have arisen, including nature-based solutions and circular economies, which demand adaptive solutions. This conference aims to gather our scientific views on the assessment and management of these pressures, their consequences for humans and nature, and on how to implement water related policies.

This **10y-ICRA Conference** will be held at ICRA facilities on **November 26, 2019**, from 10.00 to 16.30 h.

It is structured in several transversal topics aiming to attract researchers from different research areas at ICRA. Invited keynote speakers will also provide cross-cutting perspectives on water research.



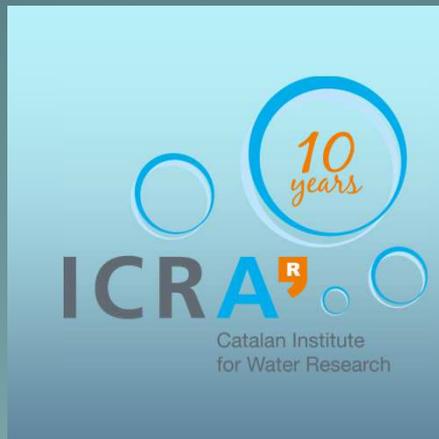
**We encourage 5-min flash presentations in plain language**, so technicisms might be avoided and the main message could easily reach the audience (ourselves and other invited attendees!).

Presentations will be recorded and might be available at ICRA's website after the conference.

Registration can be done by e-mailing to the following address: [tenyearscongress@icra.cat](mailto:tenyearscongress@icra.cat) quoting "10y-ICRA" in the subject line, **until November 15**.

Please provide a title and a short abstract, and indicate the name of any participating co-authors. Also, please, indicate the preferred topic under which the contribution will be presented. You will receive a registration e-mail detailing the instructions regarding your presentation, and the final topic under which it will be presented.

Registration is free and includes coffee breaks and lunch during the meeting.



The 10y-ICRA Conference is calling for short, direct addresses, around any of the following themes:

**1. TECHNOLOGICAL AND NATURE-BASED SOLUTIONS FOR CLOSED-LOOP CITIES**

*This is dedicated to new water and wastewater treatment and resource recovery technologies, and methodologies for sustainable management and use of nature to create climate and water-resilient cities*

**2. FRESHWATER ECOSYSTEMS UNDER THREAT**

*It includes studies about the effect of climate change and water scarcity, toxicity, occurrence and attenuation of pollutants (including emerging contaminants, antibiotic resistant bacteria and genes, nanoparticles, microplastics...) reaching freshwater ecosystems and their biota.*

**3. THE HIDDEN ROLE OF BIODIVERSITY**

*It aims at bringing together people interested in understanding and communicating the role of biodiversity in environmental engineering, biotechnology, ecosystem ecology, or risk assessment.*

**4. BEYOND SCIENCE: HOW TO SYNCHRONIZE RESEARCH, MANAGEMENT AND POLICY**

*It is dedicated to novel frameworks integrating scientific evidences on the public or private policy of environmental management to protect the coupled human-freshwater ecosystem.*

**5. WATER OMICS AND HIGH-RESOLUTION MASS SPECTROMETRY**

*This theme presents applications of cutting-edge “omics” techniques (metagenomics, metatranscriptomics, metabolomics, proteomics) and novel frameworks to exploit the data obtained by high resolution mass spectrometry for a deep and integrated understanding of water systems and the interaction of chemicals, micro- and macroorganisms.*

**6. INTEGRATED WATER MANAGEMENT AND ALTERNATIVE WATER SOURCES.**

*It welcomes research that models or experimentally investigates the water cycle, paying close attention to the interactions of drainage, treatment and water reclamation practices, the water quality, and the receiving environment and ecosystems*

**We look forward to your active participation in this celebration congress!**