

PREMIS DE L'AIGUA 2023

Tarragona, 22 Març 2023

Sr. Lorenzo CORREA

Futuro del Agua fue fundada en 2013 por Lorenzo Correa. Aplicamos las apasionantes teorías del coaching ontológico a la gestión seductora del agua, mediante la conversión de habilidades en hábitos.

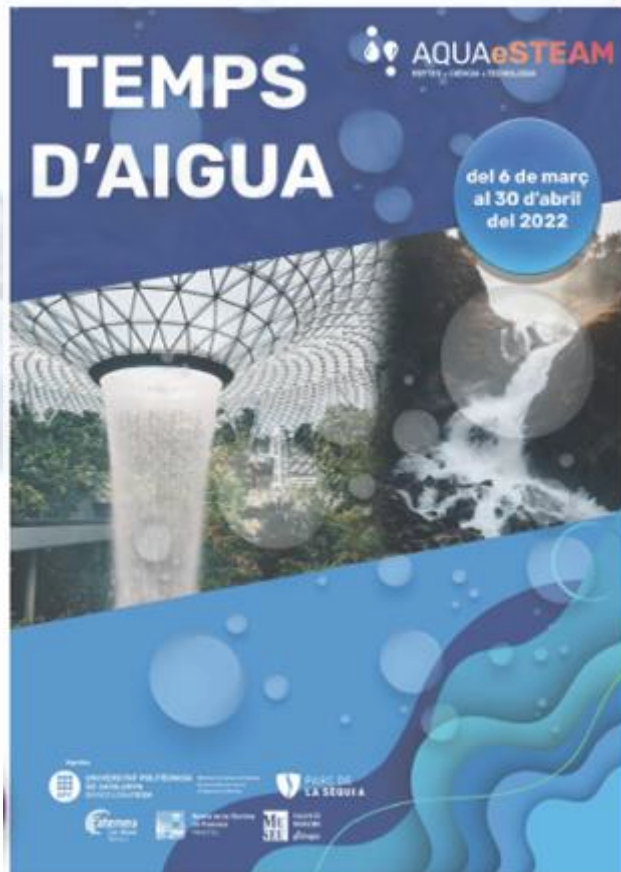
Aportamos ideas para cambiar el paradigma de la gestión del agua en el futuro por otro en el que la seducción sea la premisa fundamental. Para que la base de toda la argumentación técnica, científica y política sea la generación de confianza en el usuario.

Por eso divulgamos, opinamos y nos deleitamos con lo que otros han escrito, en prosa y en verso para ensalzar la importancia y trascendencia del agua en nuestras vidas.



www.futurodelagua.com

Dra. Montserrat ALSINA



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH



Montserrat Alsina
Matemàtica, investigadora a la UPC

Aigües de Manresa



Aigües de Barcelona / Cetaqua / Ajuntament de Cornellà de Llobregat



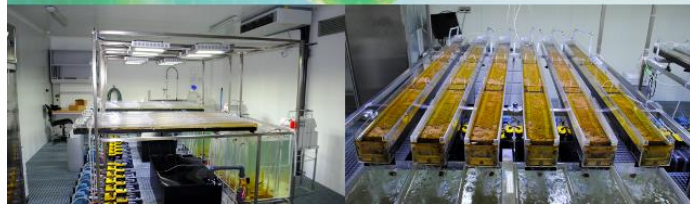
Institut Català de Recerca de l'Aigua (ICRA)



Experimental Streams Facility

What is it? General description

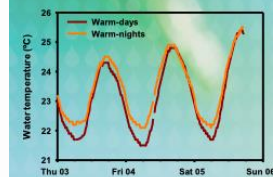
- **Numbers:** 24 experimental streams at the ESF
- **Dimensions:** 2 m long, 10 cm wide, rectangular cross section 50 cm²
- **Substrata:** Sandy streambed and glazed ceramic tiles or rocks
- **Hydraulics:** laminar to turbulent flow, 0.01 to 0.1 L/s, 2 to 50 min travel time
- **Chemistry:** harvested rainwater, nutrients and DOC addition
- **Temperature:** air and water temperature controlled, from 4 to 40°C
- **Operation:** flow-through, recirculation or hybrid operation.



Experimental Streams Facility

How does it work?

- **Automatic control system for all variables:** hydraulics, nutrient additions, determination of water source, light cycles, temperature values and cycles, discharge values and cycles.
- **Monitoring variables also connected to automatic control system:** water temperature, chlorine concentration, dissolved oxygen, water in experimental units, light radiation.



Experimental Streams Facility

What for? Goals and ongoing research

Ecological research:

- What's the relationship between intermittency temporal extent and stream ecosystem processes?
- Will warmer-nights cause a shift towards heterotrophy?
- How relevant are heatwaves in shaping stream communities?
- Does intermittency influence the length of trophic invertebrate chains?

Ecotoxicological research:

- What's the interaction between physical stressors such as water stress during droughts and chemical stress by pharmaceuticals?
- Does biodegradation of pharmaceuticals depend on temperature?
- Is bioaccumulation of pharmaceuticals in biofilms and invertebrates depend solely on exposure?



Dr. Martí BOADA



FINS 2024