

16:00 – 16:10 *ESR8 – Angela Raffaella Pia Pizzichetti*

Domestic UV-C LED / membrane water treatment

16:10 – 16:30 Questions and answers

16:30 – 16:40 Closing of International Workshop

17:00 – 17:20 Transfer to the winery

17:20 – 19:30 Visit to the winery, stud farm, art gallery and tasting of six Jerez wines in the winery (Bodega Valdespino)

19:30 – 19:40 Transfer to NH hotel Avenida de Jerez

21:00 Dinner at Albores restaurant (C/Consistorio, 12)

<https://goo.gl/maps/83TB88uU4jun26ti6>



REWATERGY – Training event 8



Aqualia

International Workshop

October 24th, 2022

Hotel NH Avenida de Jerez

(Meeting room)

Avda. Alcalde Álvaro Domecq, 10

Jerez de la Frontera, Cádiz, Spain

<https://g.page/NHAvenidaJerez?share>

CONNECTION TO THE WORKSHOP: [MS Teams Link](#)

Monday 24th October 2022

All times are CET

9:30 – 10:00 **Welcome & Introduction**

Mamen Sánchez, Mayor, City of Jerez
Emilio Fernández (Head of Delegation, Aqualia)
Víctor Monsalvo (Head of Ecoefficiency Area, Aqualia)
Javier Marugán (Project Coordinator)

10:00 – 10:20 **Coffee break**

10:20 – 12:10 **Session 1: Early-stage researchers' projects (I)**

10:20 – 10:50 **Bioelectrochemical Systems: providing solutions to the water-energy nexus challenges- Dr. Eduard Borràs**

Manager of Microbial & Electrochemical Technologies department in LEITAT Technological Center

10:50 – 11:00 **ESR1 – Adriana Rioja**

Investigation and development of electrocatalysts and electrochemical cells for the production of hydrogen from wastewater

11:00 – 11:10 **ESR2 – Marina Avena**

Large-scale production of materials for the production of hydrogen from wastewater

11:10 – 11:20 **ESR3 – Ruben Asiain**

Development of an ammonia decomposition prototype for hydrogen production from wastewater

11:20 – 11:50 **Semiconductor photocatalysis for anti-microbial applications - Prof. Suresh C. Pillai**

Director, Health and Bio-Medical Centre & Head of Nanotechnology and Bio-Engineering Research Group, Atlantic Technological University (Ireland)

11:50 – 12:00 **ESR4 – Salem Alkarabsheh**

Development of novel mechanisms based on photo and electro disinfection and decontamination of wastewater and drinking water

12:00 – 12:10 **Questions and answers**

12:10 – 12:30 **Transfer to Guadalate WWTP**

12:30 – 13:30 **Visit to WWTP Guadalete**

13:30 – 13:50 **Transfer to La Espartería restaurant in Jerez de la Frontera**

13:50 – 15:00 **Lunch at La Espartería restaurant and back to NH Avenida de Jerez**

15:00 – 16:30 **Session 2: Early-stage researchers projects' (II)**

15:00 – 15:30 **Challenges in the use of microalgae biotechnology in wastewater treatment - Prof. José Antonio Perales**

Full professor of Environmental Technologies at the University of Cádiz (UCA).

15:30 – 15:40 **ESR5 – Conor Reddick**

UV LED prototype for the photoelectrocatalytic generation of oxidising species for water treatment

15:40 – 15:50 **ESR6 – Shabila Perveen**

Evaluation of the potential risks of antibiotic resistant bacteria and genes (ARBs & ARGs), and microplastics (MPs); and monitoring of their removal in water treatment processes

15:50 – 16:00 **ESR7 – Adithya Pai Uppinakudru**

UV-C LED emitters: design and simulation challenges