



**WORKSHOP ECOFLOC project (FP7-PEOPLE-2013-ITN-EID- 604825)**

January 26<sup>th</sup> 2018

## ***Ecofriendly Water Treatments***

Effluents are widely produced nowadays in modern societies, be it from industrial processes or urban effluents. These effluents pose several problems and, with a constant increase of water needs and a lower availability of water resources, it is essential to guarantee adequate effluents treatment respecting the legislation, which is progressively becoming more restrictive.

Moreover, when treating effluents several problems arise: the amount of sludge produced, the characteristics of those sludges, disposal of such sludges and the need to increase biodegradability of the sludges among many other issues, namely the existence of resilient components in the effluents and sludges.

The ECOFLOC project has been concerned with the development of more eco-friendly flocculants, namely based on natural wastes.

In this workshop several techniques used to treat effluents, namely effluents containing more resilient and toxic components, will be addressed, with a focus on new developments and techniques which are being introduced to the market. Several invited speakers from academia and industry will present these developments in the workshop. Also, Aqua+Tech will provide the possibility to carry out small scale bench tests.

The workshop is specially directed to the industrial sector and to technicians in charge of urban effluents treatment at the municipalities' level, but also to researchers in this field.



**REGISTRATION go to the link <https://goo.gl/forms/qH4swpGzc0SJT0mT2>**  
**Number of participants will be limited to 30**



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### **Program**

**9.00** – Reception of participants

**9.30** – Welcome and overview of the ECOFLOC project

Maria Graça Rasteiro (Prof. University of Coimbra, project coordinator)

**10.00** – Treatment of contaminants of emerging concern by Advanced Oxidation Process for water reuse (**KN**)

Santiago Esplugas (Prof. University of Barcelona)

**11.00** – **coffee break**

**11.30** – Wood base polymers for water treatment

Kinga Grenda (University of Coimbra, project researcher)

**12.00** – New generation of flocculants for oily waste waters

Anita Lourenço (Aqua+Tech, project researcher)

**12.30** – **lunch break**

**14.00** – Sustainable waste management and circular economy

(LIPOR - Intermunicipal Waste Management of Greater Porto)

**14h30** – Benefits of using the sequencing batch reactors system (SBR) compared to classical continuous WWT

Robert Gumy, Switzerland

**15.00** – Practical case study: when wastes can be turned into assets

Julien Arnold (Aqua+Tech, Switzerland)

**15.30** – **coffee break and Demonstrations**

**16.30** – Use of Fenton-like processes for waste water treatment: new perspectives and integration with other technologies

Luís Miguel Madeira (Prof. University of Porto – FEUP, Portugal)

**17.00** – Treatment of liquid effluents using electrochemical methods

Rosa Quinta-Ferreira (Prof. University of Coimbra, Portugal)

**17.30 to 18.30** – **Final debate with all the speakers**

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