

# Water Management Softwares and Open Source Codes Workshop. Sponsored by UNESCO Regional Office for the Maghreb.



## Design of Brackish and Seawater Reverse Osmosis Desalination Plants.



Organized by



جامعة أبو بكر بلقايد  
UNIVERSITY OF TLEMEN



Pan African University  
Institute of Water  
and Energy Sciences

In Collaboration with



Faculty of Technology

Centre de télé-enseignement – Chetouane 13000

Tlemcen, June 26-27, 2021

## PROGRAM

### 08:10-08:30 Welcome and Opening:

- Pr **CHIKH Mohammed El Amine**, Dean of the Faculty of Technology, A.B. University, Tlemcen.
- Pr **ZERGA Abdellatif**, Director of PAUWES, Tlemcen.
- Dr **ALAOUI Mohamed**, Bureau Unesco pour le Maghreb.

### Saturday, June 26<sup>th</sup>:

08:30- 08:45 UN-Water 2021 Report / Unesco and SDG6 (K. Mohammedi)

08:45-10:15 Introduction to Water composition Analysis, Desalination and membrane Techniques (A. Sadi)

10:15-10:30 Coffee Break

10:30- 12:30 Desalination Technologies - Membrane Techniques (A. Sadi)

(Membrane Desalination and Reverse Osmosis, Pre-treatment and post-treatment, presentation of Douaouda/ Tipaza Seawater Reverse Osmosis Desalination Plant)

**Lunch: 12:30-13:30**

13:30-14:00 Configuration and Design elements of RO plants (A. Sadi)

14:00-16:00 **Workshop 1**: Desalination Plant Design / DS2Toray Software / IMS Design Software (A. Sadi + K. Mohammedi)

- DS2Toray Software /Application (A. Sadi) **Groupe 1**
- IMS Design Software /Hydraulics/Application (K. Mohammedi) **Groupe 2**

### Sunday, June 27<sup>th</sup>:

08:30-09:30 Renewable Energy Desalination (K. Mohammedi)

09:30-10:00 Seawater Desalination Plants Energy Recovery Systems/Devices (ERDs) (K. Mohammedi)

10:00-10:30 Seawater and Brackish Water Desalination Design Softwares and Codes (K. Mohammedi)

10:30-10:45 Coffee Break

10:45-11:15 Environmental Impacts of Desalination. Presentation of Cormix software (K. Mohammedi)

11:15-12:30 Test

**Lunch: 12:30-13:30**

13:30-15:30 **Workshop 2**: Desalination Plant Design / DS2Toray Software / IMS Design Software (A. Sadi + K. Mohammedi)

- DS2Toray Software /Application (A. Sadi) **Groupe 2**
- IMS Design Software /Hydraulics/Application (K. Mohammedi) **Groupe 1**

15:30-16:00: Certificates of Attendance Distribution Ceremony and Closure.



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