1st International Conference on

Water Recycling and Desalination in the Textile Industry: Current Challenges and Future Perspectives

13-15 May 2026, Monastir, Tunisia

Lectures and panels topics

- Membranes for wastewater reuse
- Textile wastewater treatment –innovative technology
- Entrepreneurial development and partnerships in textile industry: challenges and opportunities

Topics

- Nanomaterials and Membrane for water treatment
- Nanomaterials and Membrane for Energy
- Implementation ion of circular economy approaches in textile wastewater treatment
- Desalination
- Innovative wastewater treatment and reuse
- Best practices of water preservation in small-scale textile dyeing and tannery units

Activities - Side events

- Technical visits : water treatment and WWTP plants
- Use of membrane Technology for textile wastewater treatment and reuse
- Poster sessions

Organizing committee

Pr. Raja ben Amar

Dr. Afef Attia

Dr. Hajer Aloulou

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Recycling in the textile industry represents a strategic lever for reducing pressure on water resources and increasing production. However, current reuse possibilities are limited by the accumulation of dissolved salts, leading to increased conductivity in wastewater discharged into natural environments. This parameter is the main limiting factor, as it determines the recycling rate in compliance with Tunisian discharge standards. The accumulation of salts ultimately generates **brine** streams, which pose significant challenges for treatment and disposal.

In the long term, increasing the recycling rate will require the development of selective salt separation and **desalination** solutions, so that wastewater concentrates—particularly **brine**—can be treated and partially reintroduced into the production process. Such an approach is essential to enhance water recycling, fine-tune the salinity level of effluents discharged into the environment, and ensure better sustainability for Tunisian textile industries. Furthermore, small-scale textile dyeing and tannery processing activities practiced in the region suffer from inefficient water resources management—i.e., a lack of water preservation and treatment protocols. The challenges faced by micro-enterprises in the Central Sahel and North Africa will be discussed in order to address issues of water scarcity, contaminated wastewater streams (including heavy metals, minerals, COD, and BOD levels), and unsafe human health exposure. In this context, implementing affordable **desalination** and **brine** management strategies is critical to reducing environmental contamination and improving water reuse efficiency.

	For local	For foreigners
Fee	700 DT	€500

The fee covers a two-night stay, conference materials, coffee breaks, lunch and dinner.
The fee without accommodation is 350 DT.

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Payments will be made to the ATCTEX account online (bank details below) or on site:

Contact details:

Tunisian Association of Textile Researchers (ATCTex)

Code: 2007S01668AFSF1

Tax Registration Number: 1282182/W

RIB : 05 701 00 007 651 799 12 10

Banque : Banque de Tunisie (Agence SAYADA)

IBAN : TN59 05 701 00 007 651 799 12 10

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