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## Researchers Speakers



Dr. MERZOUGUI TOUHAMI hydrogeologist of basic training (state engineer), Holder of a doctorate in science and a magister (water resources) in 2011 and 2020 respectively from the University of Tlemcen (Algeria). Since 2005, she has worked at GTZ as a consultant engineer in the field of water resources in a project "integrated water management" 2005-2011 ". From 2007 to 2012, he was director of the national hydraulic resource agency - ANRH Bechar. Then in 2013, was recruited as a teacher-researcher at the Faculty of Technology of Tahri Mohamed Bechar University, he was deputy head of the hydraulics department 2014-2017 and currently as deputy head of the biology department within the SNV faculty at the University of Bechar. since 2005, he has worked with international organizations as a consultant in water and environment GTZ, OSS Tunis, AHT Group AGIRE and BGR. he is the author of more than thirty scientific publications in the field of water resources and the environment



Dr. MEKKAOUI Abderrahmane is a Lecturer researcher at the University Tahri Mohamed of Bechar in Algeria and Expert Geologist, obtained his doctorate in sciences at the University of Oran 2, Algeria in 2015. He held the position of chief geologist in 2002 (ORGM). Dr. MEKKAOUI has extensive professional experience in several areas of interest including geochemistry and petrology of basic rocks of the Ougarta mountains major, minor and isotopes, Geotechnics, metallic and non-metallic useful substances, groundwater resources in the Saharan zone and environments. He has published several research papers focusing on geology, reconnaissance techniques and water drilling.



Prof. Fadoua Hamzaoui Azaza graduated from the Tunis Faculty of Science in 2011 with a PhD in groundwater management (geochemistry and modelling) and a Master's degree in environmental geology in 2004. She is currently an associate professor at the Tunis Faculty of Science. Her research focuses on groundwater geochemistry, hydrogeology and groundwater modelling.



Prof. Abdullah Saif Al-Ghafri Professor of the UNESCO Chair of Aflaj-Archeohydrology Studies in Environmental Resources (Water Management) from Hokkaido University in 2004. M.Sc. in agricultural Water Management from Hokkaido University in 2001 and B.Sc. in Agricultural Mechanization from Sultan Qaboos University in 1991. His research interests include Aflaj systems, agricultural water management and traditional technologies.



Prof. Abdalraheem Huwaysh has been working at Tripoli University as a professor since 20-09-2017 and has numerous scientific publications in his field of specialization. Prof. Abdalraheem Huwaysh is an active researcher in the fields of water and environment and has numerous publications at local and international levels. Has participated in scientific programmes related to the study of transboundary aquifer management and water quality studies. Served as Executive Director of the joint Commission for the Study and Development of the Nubian Sandstone Reservoir.

## Contact

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Laboratory for the valorisation of plant resources and Food Security in semi-arid zones (LRVSA)  
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## Sponsored by



People's Democratic Republic of Algeria  
 Ministry Of Higher Education and Scientific Research  
 Tahri Mohamed University of Bechar

Under the high patronage of the Minister of Higher Education and Scientific Research,

## The international conference On

# Water Resources and Environmental Changes

Organized by  
 Tahri Mohamed University - Bechar  
 The Wilaya of Bechar  
 The Wilaya of Beni Abbes

[Bechar-Algeria](#)  
[April 12-14, 2025](#)





## Objectives of the Conference

Throughout history, human societies have gravitated toward water sources, recognizing them as vital resources essential for well-being. This acknowledgment has led to the understanding that water is the most crucial resource for life. Over time, humans have discovered various forms of water, including river water, groundwater, and desalinated seawater and brackish water. This diversification has spurred extensive research and efforts to preserve and extract water from the Earth, as well as to desalinate seawater.

As a result, water has evolved into not just a fundamental resource for life, but also an economic and social model, gaining significance in international studies and relations. However, climate change and human activities are currently increasing pressure on global water resources. Global warming disrupts hydrological cycles, altering rainfall patterns, increasing the frequency of droughts and floods, and affecting evaporation rates. These changes heighten the variability of water availability, particularly in arid and semi-arid regions.

Moreover, human activities contribute to the degradation of both the quality and quantity of water resources. Overexploitation of groundwater and pollution of rivers diminish the resilience of aquatic ecosystems and limit access to drinking water for many communities. These combined factors jeopardize the sustainability of water resources, making integrated water management essential to address future challenges.

In this context, the Saoura Oasis is currently experiencing significant environmental changes due to prolonged droughts, devastating flash floods, and pollution. The Saoura Valley, one of the most representative desert valleys of the Quaternary period in the Algerian Sahara, is notable for its rich biodiversity.

To address these pressing issues, Tahri Mohamed Bechar University, in collaboration with the Chemistry and Environmental Science Laboratory, the Law and Development Laboratory, and the Laboratory of Biological Resources and Food Security, is organizing an international conference on water resources and environmental changes from April 12 to 14, 2025. This event aims to foster constructive and in-depth scientific dialogue among researchers and stakeholders, providing a platform for speakers to contribute to discussions on enhancing sustainable water resource management.

## Main themes of the Conference

- Synthesis and current status of water resources in the South-West region of Algeria
- Impacts of climate change on water resources
- Governance for sustainable use of water resources
- Quantitative and qualitative management of water resources
- Water Heritage: Case of the Saoura Valley

## Important Dates

- **1st call for contributions** November 30, 2024
- **Deadline for submission of abstracts** February 27, 2025
- **Notification of acceptance:** March 15, 2025
- **Final Program:** March 31, 2025

## Publication

The best communications (Orals and Posters) will be submitted for publication in LAHRYSS Journal.

### Honorary President of the Conference

Pr. BEZZAZI Boudjema, Director of TAHRI Mohamed University of Bechar.

### President of the Conference

Pr. MAAZOUZI Abdelhak, Dean of the Faculty of Exact Sciences

### Chairman of the Organizing Committee

Dr. ZAHRAOUI Brahim, TAHRI Mohamed University of Bechar

### Co-chair of the Organizing Committee

Dr. MERZOUGUI Touhami, TAHRI Mohamed University of Bechar

### Chairman of the Scientific Committee

Dr. MEKKAOUI Abderrahmane, TAHRI Mohamed University of Bechar

## The Themes and Sub-themes of the Conference

### Synthesis and current status of water resources in the South-West region of Algeria

#### Impacts of climate change on water resources:

- o Risk management: forecasting, floods, droughts and low water;
- o Diagnosis and trends of water changes;
- o Vulnerabilities and resilience of hydrosystems;

#### Governance for the sustainable use of water resources:

- o Integrated watershed management;
- o Sharing information and strengthening scientific cooperation;

#### Quantitative and qualitative management of water resources:

- o Hydrogeological, hydrological modeling for water resources management;
- o Monitoring and improvement of water quality;
- o GIS applied to Water Resources;
- o AI and advanced techniques in water resources management;
- o Waste management and impacts on water resources;
- o Prevention of risks related to toxic substances;
- o Wastewater treatment, purification processes and reuse possibilities

#### Water Heritage: Case of the Saoura Valley:

- o Cultural value of water resources in the Saoura region;
- o Social impact of water resources on local communities;
- o Tourist potential and preservation of water sites.