

# Call for communication

## 2<sup>nd</sup> WIGRE2024

27 - 28 October, 2024

GROUZ Hotel, Bechar, Algeria

### Presentation and objective

This International Workshop 2WGRE24 will provide an opportunity to discuss recent advances in water resources management. It will provide an opportunity for experts, engineers, industrialists, government authorities and researchers from several sectors and countries to take stock of the latest developments in this field, both on a fundamental and applied level. This event will also share the knowledge and know-how of all participants. This workshop will welcome for two days professionals and academics interested in the field of water. The workshop will include several conferences, papers, workshops and poster sessions as well as a round table presenting the state of the art and research in the field of water resources management. The scientific conferences will create opportunities for meeting and collaboration between the various industrial and university clusters. Strategies for the sustainable management of water resources must take into account the many interactions within the link between water, food, energy and ecosystems and can only be developed in close cooperation between countries, sectors and stakeholders. During the workshop, we will facilitate interactions beyond the scientific community, members of industry, public administration, as well as international organizations and development agencies, to share knowledge and discuss these challenges.

### Topics

1. - Quantitative and qualitative management of water resources in arid and semi-arid regions: geochemical approach, modelling and GIS;
2. - Traditional water sharing system in arid zone- Water heritage.
3. - Advanced ICT-based information systems to improve groundwater management;
4. - Salinization of water and treatment of brackish water;
5. - Pollution and vulnerability of water resources;
6. - Groundwater recharge (Treated wastewater, surface water, etc.).
7. - Reuse of treated wastewater (Agriculture, Industry, Recreation, etc.)
8. - Joint use of groundwater surface water and unconventional water, in agriculture, for drinking water supply and for industry.
9. - Climate change and natural hazards: flooding, forecasting and protection, etc..



Democratic and People's Republic of Algeria  
Ministry of Higher Education and Scientific Research

TAHRI University Mohamed Bechar Faculty of Nature and Life Sciences and Faculty of Technology  
Laboratory of Chemistry and Environmental Sciences Resource  
Laboratory of Valorization Biological and Food Safety of Semi-Zone arid



## 2nd International Workshop on Water Resource Management

27 and 28 October, 2024

GROUZ Hotel, Bechar, Algeria

Honorary President

Pr. **BEZZAZI Boudjema**, Rector of the University Tahri Mohamed Béchar

Co- Honorary Presidents

Pr. **MOUSSAOUI Abdellah**, Dean of the Faculty of nature and life.

Pr. **KADRI Boufeldja**, Dean of the Faculty of Technology)

Chair of the workshop

Dr. **MERZOUGUI Touhami**

Co- chairmen (coordinators)

Dr. **REZZOUG**

Cherif Dr. **TOUL Fethi**

President of the Scientific Committee

Pr. **MAKHLOUFI Ahmed**

Co-Chairs-(assistants)

Pr. **REMINE Boualem** Pr. **HAMZAOUI Fadoua**

### Organization committee

- Dr. **MERZOUGUI Touhami**
- Dr. **TOUL Fethi**
- Dr. **REZZOUG Cherif**
- Pr. **HAMZAOUI Fadoua**
- Dr. **GENAIA Abdelkader**
- Pr. **BELHACHMI MERYEM**
- Dr. **BOULNOUAR Ali**
- Dr. **DRIS LAHCEN**
- Dr. **ABDELJEBAR Rabia**
- Dr. **BERBAOUI Naima**
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- Dr. **BENLARBI Larbi**
- Pr. **GOMRI Tedj**
- Dr. **FELLAH Ahmed Hamza**
- Dr. **MAAZOUZI ABDELHAK**
- Dr. **BADRI Abderlkader**
- Dr. **BENOUDJAFER Ibtissem**
- Dr. **TERFAYA Bouziane**
- Mme. **KOUIDRI Rekia**
- Dr. **GAZLI Abdelkader**
- Mr. **SAAB Hamid**
- Dr. **DERDDOR Abdessamad**
- Dr. **BENACHOUR Cheick**

### • Important dates

- 1st call for papers 01 juin 2024
- **Deadline for submission of abstracts 15 septembre 2024**
- Notification of acceptance 20 September 2024
- **Confirmation of participation 30 September 2024**
- Date Workshop 27-28 October 2024.

### • Participation fees (registration and accommodation)

**PhD students:** 3000 DA (without accommodation); 10000 DA (with accommodation).

**Teacher researchers:** 5000 DA (without accommodation); 15000 DA (with accommodation).

**Accompanying:** 3000 DA (without accommodation); 10000 DA (with accommodation).

**Foreign participants:** 120 Euros (with accommodation) (Exchange Equivalent in DA).

**Associations:** 5000 DA

**Participation in the excursion:** 2500 DA – 35 euros for foreigners

**Industrialists and economic operators:** 20,000 DA. (With free exhibition)

**N.B:** the registration fee only covers access to the Workshop, documentation, coffee breaks and lunch

-participants at the Hotel Grouz will receive full board (Accommodation and all meals)

- PhD students must present their current registration certificates

### Scientific Committee

Pr. **MAKHLOUFI Ahmed**, Faculté SNV , Université UTM Bechar, Algérie  
Pr. **MOUSSAOUI Abdellah** - Doyen de la faculté SNV - UTM Bechar, Algérie  
Pr. **MOUSSAOUI Abdellah** - Dean of the SNV faculty - UTM Bechar, Algeria  
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Pr. **HAMZAOUI Fadoua**, Faculty of Sciences -University Tunis El-Manar-Tunis.  
Pr. **Luis Nunes**, Universida do Algarve Faculda de Ciências Tecnologia -Purtugal  
Pr. **BELHACHMI Mergeme** , Faculté de Technologie Université UTM Bechar, Algérie  
Pr. **Abdullah Al-Ghafri**, Professor of the UNESCO Chair on Afaj Studie, Univerity of Nizwa - sultanate of Oman  
Pr. **GOMRO** Faculty of Letters and Languages, UTM Bechar University, Algeria.  
Pr. **MANSOUR Hamidi** (University of Oran 2, Algeria)  
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Pr. **ZEDDOURI AZZIZ** , Kasdi Merbah University Ouargla, Algeria.  
Pr. **KETTAB Ahmed** -Vice President of the Académie De l'Eau- France.  
Pr. **BELHACHEMI Meriem**; Faculty of Technology -UTMB University Bechar, Algeria.  
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Pr. **ARBAOUI Salah** -Faculty of Law, UTM Bechar University, Algeria.  
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Dr. **MEKKAOUI Abderrahmane**; UTM Bechar University, Algeria.  
Pr. **HAMOUINE Abdelmadjid**; UTM Bechar University, Algeria.  
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Dr. **DERDOUR Abdessamed** ; Naâma University Centre.  
Dr. **BOUTADARA Youcef**; Ahmed Draria University -Adrar.  
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Dr. **ZAHRAOUI Brahim**; UTM Bechar University, Algeria.  
Dr. **BADRI Abdelkader**; Faculty of Technology, UTM Bechar University, Algeria.  
Dr. **YAHIAOUI Abdelhalim**; Institute of Technology; University of Bouira.ty;

### Submission and contact



All abstracts should be sent to the following e-mail address:

[2wigre24@gmail.com](mailto:2wigre24@gmail.com)

[workshopgre24@univ-bechar.dz](mailto:workshopgre24@univ-bechar.dz)

<https://www.univ-bechar.dz>



Submission pages

<https://sites.google.com/univ-bechar.dz/gre2024>

<https://easychair.org/conferences/?conf=2wigre>



# 2WIGRE2024

For further information, please contact the President Workshop :

Email : [merzougui.touhami@univ-bechar.dz](mailto:merzougui.touhami@univ-bechar.dz)

Mob et WhatsApp: (+213)0655713486



## Workshops (Topic)

### Workshop 01

#### Topic and objectives

- The contribution of geophysics and modelling in sustainable groundwater management.
  - Impact of climate change on water resources.
1. Why are groundwater models still often called into question ?
  2. How to simplify the model results to present to decision makers and managers who can help it?
  3. Similarly, stakeholders can simply receive a digital representation that means the reliability of the model's predictions. How to solve the problem of parameter uncertainties: we will need to know what is the most relevant parameter to analyze?
  4. How to solve the question of groundwater recharge with the new data with climate change

### Workshop 02

#### Topic and objectives

- Groundwater quality, water pollution and vulnerability and unconventional water treatment.
1. Quality monitoring and field sampling in the laboratory
  2. Unconventional water treatment
  3. Tertiary wastewater treatment
  4. Clean water reuse
  5. Desalination of saline water and demineralization of brackish water
  6. What contribution of isotopic hydrochemistry and hydrochemistry in the knowledge and functioning of groundwater ?

### Workshop 03

#### Topic and objectives

- Traditional water sharing system in arid zones. Valorisation and preservation of water heritage.
1. The experience of AFLAJ valorization of sultanate Oman The experience of the Qanât valorization of Ira
  2. Initiatives to promote Algerian Foggaras as a World Heritage Site The issue of sustainability and preservation of water heritage in the world
  3. Dissemination of videos on AFLADJ, Qanat and Algerian Foggaras.
  4. Classification of the Algerian Foggara and creation of «Chair Foggaras Unesco»?

#### • Level panel

- On the challenges and roles of the different actors in the implementation of water management adapted to climate change in arid and hyper-arid zones
- The Nexus Water-Energy-Food Ecosystem (WEFE Nexus) approach highlights the interdependence of water, energy, food security and ecosystems.
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#### round table

- On the challenges and roles of different actors in the implementation of water management adapted to climate change.
- Presentation of the experience of Sultanate Oman and Iran, AFLAJ-Qanat «Chair Unesco».
- What accompanying measures for the preservation and classification of the foggara as world water heritage and the creation «Chair Foggaras Unesco»?

#### • Excursions

On Tuesday, October 29, spectacular day or half-day excursions will take place, highlighting a wide range of aspects related to the oasian landscape of Boukasis, Taghit, Béni- Abbes and the Foggara groundwater sharing system of Ouelad Said (Timimoun).

Half-day excursions (Taghit or Mougheul) usually last 3-4 hours and may include lunch.

Excursions are for Workshop participants only. You can choose an excursion when registering for the Workshop. If you are already registered for the Workshop, log in to your Workshop account and add an excursion to your booking.

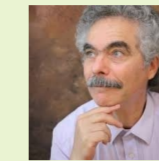
Most excursions depart from Hotel Grouz (see descriptions). A day trip (F) starts at 8:30 a.m. and ends at 17:00.



## Invited speakers



Dr. Abdullah Saif Al-Ghafri, Professor of the UNESCO Chair on Aflaj Studies-Archaeohydrology (The Chair holder)the University of Nizwa -Sultanate of Oman



Pr. Jean Albergel, Research director emeritus IRD, UMR LISAH, SupAgro,- Montpellier-France



Pr. BOUHLILA Rachida, Professor National Engineering School of Tunis (ENIT), University of Tunis El Manar -Tunisia.



Pr. Luís NUNES, Universida de do Algarve Faculda de de Ciênciase Tecnologia -Purtugal



Pr. Boualem REMINI, Saad Dahlab Blida 1 University, Algeria, "The father of the Algerian foggara"



Pr. Majid Labbaf Khaneiki, Assistant professor, UNESCO Chair on Aflaj Studies, The University of Nizwa, OMAN- Studies Agro-Economics and Socio-Hydrology Team international expert on Iranian Qanats,



Pr. Lucila Candela, Expert researcher in hydrogeology,, IMDEA-Water. Espagne



Pr. Abdalraheem HUWAYSH, Faculty of Science, University of Tripoli, Tripoli, Libya



Dr. Ziyana AL-RAWAHI, University Drive, Fairfax, Virginia, USA



Pr. Mamoon M.D. AL-RSHAI DAT, Biological Sciences School SXD of Sciences The University of Jordan, Amman, Jordan



Pr. Patrick Lachassagne, Dr, HD, Director at Université de Montpellier CNRS IRD IMT Mines Alès Montpellier, France



Pr. HAMZAOUI Fadoua ; Faculty of sciences , Professor (Associate) at University of Tunis El Manar- Tunisia.