

CURRICULUM VITAE

Personnel Information

First Name **Mahmoud**

Family Name **Al-Sibai**

Date of Birth 1963, Homs, Syria

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Scientific Positions

Dean, Higher institute for water management

Date: 2009 – present
Homs, Syria

Head of water resources management and engineering Department

Faculty of Civil Engineering, Homs University
Date: 2025-present

Director of Quality Assurance

Qalamoon University, Syria
Date: 2020

Director of Quality Assurance

Homs University, Syria
Date: 2008-2009

Associate Professor

Homs University, Faculty of Civil Engineering
Date: 2006 – Present

Consultant

Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

Date: 2020 – present.

Head of Integrated Water Resources Management program

Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

Date: 2001 – 2007

Education

Homs University, Syria

Bachelor of Science (B.Sc.)

Civil Engineering, 1985

Newcastle University, UK

Master of Science (MSc)

Irrigation engineering, 1992

Newcastle University, UK

Ph. D in Engineering, 1996

Expertise

- Integrated Water Resources Management
- Climate change impacts on water resources and adaptation strategies.
- Training and capacity building
- Quality assurance in higher education
- Enhancing Water and Disaster Risk Reduction

Projects

- **Obtaining accreditation for Civil and Architecture Engineering programs from the Arab Commission for Accreditation in Engineering and Technology**
- **Assessment of Groundwater Resources of Syria**
- **Mathematical Models: Groundwater Resources Management**
- **Impact of Climate Change on Water Resources**
- **Formulating Syrian water policy**
- **Decision Support System for water resources management (WEAP model)**

- **Preparing and conducting training on early recovery and disaster risk reduction
Analyzing SDG 6 for Syria**
- **Development of a Modern Higher Education System for Water Engineering in Syria**
- **Designing & Running e-course on WEAP**
- **Promotion of capacity building institutions to support reform processes in the
water sector of the MENA Region**
- **Formulating the national academic reference standards (NARS) for engineering**
- **Syria's initial national Communication to the UNFCCC**

Important Publications

- **Vulnerability Assessment of Water Resources to Environmental Change in Orontes Basin**
publication date 2016
Journal of Homs University
- **Vulnerability Mapping Using COP approach in Fijeh Spring Area**
publication date 2016
Journal of Damascus University
- **Freshwater vulnerability in the Levant region**
publication date 2012
International Journal of Climate Change Strategies and Management
- **Using Groundwater Mathematical Modeling as an Essential Management Tool: Case Study from Syria**
publication date 2012
The Arab Journal of Arid Environments
- **WEAP-MODFLOW Tutorial**
publication date 2012
BGR-ACSAD
- **WEAP-MODFLOW as a Decision Support System (DSS) for integrated water resources management**
publication date 2012
SERIES IAH - Selected Papers on Hydrogeology No 17 / CRC Press.
- **Impact of climate change on Syrian water resources, case study**
publication date 2009
Journal of Homs University
- **A Decision Support System (DSS) for Water Resources Management, Design (WEAP) and Results from a Pilot Study in SYRIA**
publication date 2008
Environmental science and engineering; ISBN 978-3-540-850-46-5
In " CLIMATIC CHANGES AND WATER RESOURCES IN THE MIDDLE EAST AND NORTH AFRICA" ed: F Zereini & JW Goethe
- **Incorporate MODFLOW in a Decision Support System (WEAP) for Water Resources Management**
publication date 2008
Proceeding of Modflow and More international conference, Colorado, USA

- **On Groundwater Models and the Need of Sufficient and Reliable Data, Examples, Dependencies and Interrelations**
publication date 2006
Proceedings of Seventh Gulf water Conference
- **Estimation of evapotranspiration for Palmyra Oasis using energy budget method, Analytical and experimental study**
publication date 2005
Damascus University Journal for Basic Sciences
- **Groundwater flow Modeling "Lower Euphrates Valley"**
publication date 2005
Damascus University Journal for Basic Sciences
- **Laboratory experiments and modeling studies of leaching of intermittently drained columns**
publication date 2000
Australian Journal of Soil Research
- **Movement of solute through a porous medium under intermittent leaching**
publication date 1997
European Journal of Soil Science

Languages

- **Arabic**
Native languages
- **English**
Full professional proficiency