

MOHAMAD HECHAM TAJJAR

DAMASCUS, SYRIA

E-mail: mhtajjar@hotmail.com

Phone: + 963 (11) 441 7561 – 446 3786 Mobile: +963 933 60 98 30

FAX: + 963 (11) 212 3673

Water Resources Engineer, Ph.D.

SUMMARY OF SKILLS:

- Excellent experience in modelling, research, and analytical skill
- Effective communicator and outstanding interpersonal skills
- An in-depth research experience in hydrology and hydraulics
- A solid experience in teaching Civil Engineering at graduate and undergraduate level.

PROFESSIONAL HISTORY:

2004 - 2005 Director of Engineering Section, Kalamoon University

2005 –2009 Head of Irrigation & Drainage Department – Damascus University

Since 2009 Consultant in Civil Engineer – Water Resources.

1998 - 2019 Associate Professor of Civil Engineering, Damascus University

- Taught, researched, and consulted in water resources engineering.
- Delivered courses in hydrology, hydrogeology, and hydraulics.
- Supervised undergraduate projects and Master's theses

2018 - Lecturer, JPU University

2012 - 2013 Lecturer, IUST University

2002 Training Course in Hydrology for the Engineers of the Ministry of Housing & Public Utilities under the frame of the project of "Damascus Water Supply from Coastal Area"

2002 Water Resources Engineer (temporary placement), City of Oshawa, Ontario, CANADA.

- Analyzed a local flooding problem related to the storm sewer system in Oshawa
- Created a spreadsheet program to calculate the hydraulic grade line in storm sewer system

1993 - 1998 Lecturer in Faculty of Civil Engineering, Damascus University

1985 - 1987 Lecturer - Assistant in Faculty of Civil Engineering, Damascus University

EDUCATION:

1997 Masters of Engineering in Hydroinformatics, International Institute for Infrastructural Hydraulic and Environmental Engineering (IHE), Delft, the Netherlands

- Research study in the Informatics and the Hydraulics.

1993 Ph.D. Degree, National Higher School of MINES, Paris (ENSMP), France

1989 - 1993 Researched to obtain Ph.D. Degree in "Quantitative Hydrology and Hydrogeology", ENSMP, France.

1989 Profound Studies Diploma (DEA), Joseph-Fourrier University of Grenoble in the domain of "Mechanics of Geophysical Mediums and Environments", France

1988 French Courses in CUEF, Grenoble, France

1985 Civil Engineering Degree, Damascus University, Syria

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PUBLICATIONS AND STUDIES:**Thesis (Ph.D.):**

"**Hydrodynamics Modelling of Subterranean Water and River exchanges**" – Simulation of experimental water flow released from a dam on Seine-River during the low water level period. School of Mines, Paris – France 1993.

Books:

-**The Hydrology**, Dr. M. Chiblak and Dr. H. Tajjar - Publications of Damascus University, 450 Pages **1994**.

-**Water Resources Assessment**, Dr. M. TAJJAR, Dr. A. Suleiman, Dr. W. Seif, Dr. H. Ali, Dr. M. Sharif, Dr. W. Abu Shaar, - TEMPUS MEDA PROGRAM- **2006**

Articles:

- 1- Modeling of flood inundation areas numerically Case Study treatment station (Ganderiah).** M. karabij, M. H. Tajjar. Journal of Damascus University, 2015
- 2 - Optimization of Artificial Recharge by using Well Injection**
Journal of Damascus University, Volume 14, No. 1, 1998
- 3 - Hydrodynamics Modelling of Subterranean Water - River Exchanges**
Journal of Bassel Al-Assad for Engineering Sciences, No. 4, 1996

Internal Publications (PIREN-Seine):

- Duplex J., Levassor A., Tajjar H., (1991) The Seine-alluvial Aquifer System between Troyes and Montereau. Modelling of free surface flow. PIREN-Seine II/91/04
- Levassor A., Tajjar H., Duplex J., (1991) Experimental releases 10-20 September 1990. Hydraulic measurements. PIREN-Seine II/91/03
- Levassor A., Tajjar H., (1992) The Seine-alluvial aquifer system between Troyes and Montereau. Modelling of groundwater flow. PIREN-Seine II/92/01
- Tajjar H., Ledoux E., Levassor A., (1992) The Seine-alluvial aquifer system between Troyes and Montereau. Coupled model. PIREN-Seine II/92/02

PROFESSIONAL DEVELOPMENT:

- Scientific Exchange Residency (1999)** at the *University of Paris-IV*, France "Artificial Recharge of Groundwater".
- Scientific Exchange Residency (2003)** at the *University of Paris-IIV*, France. Represented the University of Damascus for a convention between the University of Damascus and the University of Paris-IIV. Followed a short course in GIS (MapInfo)
- International Training Programme in Transboundary Water Management -MENA (2007-2008)** 1st part in **Jordan** 4th -15th /11/2007 and 2nd part in **Sweden** 18th - 22th , organized by **RAMBULL Natura AB** and **Stockholm International Water institute (SIWI)**.

Translations:

Translation of the *International Glossary of Hydrology*, UNESCO and World Meteorological Organization, from English to Arabic, 1999 (<http://www.cig.ensmp.fr/~hubert/glu/aglo.htm>)

LANGUAGES:

Fluent in English, French & Arabic

Studies:

- **Dr. Taha and Dr. Tajar, Dec. 1996: The Use of Mathematical Modelling for Studying Artificial and Natural Recharges in Damascus Basin.** A report for the Ministry of Irrigation within the framework of the development program of the United Nations Project for the East and West
- Review of the "**Hydrological Study and Flood Prevention**" for the Project of the "**Industrial City in ADRA**", 2003
- "**Hydrological Study** for the Project of "**Rehabilitation design of Tseel Dam, Daraa**", 2003
- Review of the "**Hydrological Study**" for the Project of the "**Damascus Interchange for the Main Road between Sabbourah & Quatana**", 2003
- "**Hydrological Study** for the Project of "**Reconstruction of AL-Adnanieh Village, Quneitra Governate**", 2003
- "**Hydrological Study** for the Project of "**Reconstruction of AL-Ousheh Village, Quneitra Governate**", 2003
- "**Hydrological Study** for the Project of "**Design of The Highway between Hama & Salamieh**", 2004
- "**Hydrological Study** for the Project of "**Design of The Highway between Aleppo & Atareb**", 2004
- "**Hydrological Study** for the Project of "**Rehabilitation design of SAHAM Dam, Quneitra**", 2005
- **Water Evacuation Study for The Highway between Damascus & Syrian-Jordanian Border**", 2005.
- "**Hydrological Study** for the Project of "**Rehabilitation design of Ghaida Dam, Swedaa**", 2005
- "**Hydrological Study** for the Project of "**Rehabilitation design of Houbran Dam, Swedaa**", 2005
- "**Hydrological Study** for the Project of "**Design of The Highway between Msyaf & Al-Kadmous**", 2006
- "**Hydrological Study** for the Project of "**Design of The Highway between Aleppo- Ezaz- Efreeen**", 2006
- "**Hydrological Study** for the Project of "**Design of The Highway between Aleppo & Al-Yarubbieh**", 2006

Others:

- **Co-author of SYRIAN STANDARDS FOR HIGHWAYS, 2015**

REFERENCES AVAILABLE UPON REQUEST