Dr. Mohammad N. Almasri

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CURRENT POSITION

Associate professor, Civil Engineering Department, An-Najah National University

EDUCATION

2000 – 2003. PhD, Water and Environmental Engineering, Utah State University, Utah, USA

1994 – 1997. MSc, Water and Environmental Engineering, An-Najah National University, Nablus, Palestine

1988 – 1993. BSc, Mechanical Engineering, Aleppo University, Aleppo, Syria

WORK EXPERIENCE

June 2004 -

- Faculty member at the Department of Civil Engineering, College of Engineering at ANU
- Assistant professor (2004 – 2011) | Associate professor (2011 – present)
- Coordinator for the Water and Environmental Committee at the Department of Civil Engineering, College of Engineering at ANU (2008 – 2010; 9/2011 – 9/2012)
- Director of Water and Environmental Studies Institute (WESI) at ANU (August 2006 – December 2008)
- Coordinator for the Master Programs of Water and Environmental Engineering and Environmental Sciences at ANU (August 2006 – Jan 2008) and (September 2011 – present)
- Visiting researcher (July 2006) at the Department of Earth Sciences – University College London (UCL) through TEMPUS Individual Mobility Grants (IMG)
- Instructor for the Euro-Mediterranean University (EMUNI) Doctoral Research Seminar held during Summer 2009 at Portorož, Slovenia
- *Adjunct Professor*, Utah State University (2006 – present): Committee member for the examination of two doctoral students at USU
- Researcher at WESI (2004 – 2008)
- Member of the Editorial Board of **Geography Journal** (http://www.hindawi.com/journals/gj/)
- Consultant to many engineering and professional firms including House of Water and Environment (HWE), Montgomery Watson Harza (MWH), and PALMEC

September 2000 – May 2004

Utah Water Research Laboratory (UWRL) at Utah State University, Logan, Utah, US

- Graduate student and research associate
- Teaching Assistant for Groundwater Engineering course (CEE 6430)

COMPUTER SKILLS

The following are the key technical software that I am professional in:

1. **MODFLOW**: the well-known groundwater flow modeling software of USGS
2. **MODPATH**: a groundwater particle tracking software of USGS

3. **SEAWAT**: for the assessment of seawater intrusion in coastal aquifers
4. **MT3D**: for the modeling of fate and transport of contaminants in groundwater
5. **GWM**: groundwater management using optimization to assess the optimal extraction rates
6. **ArcGIS**: for pre and post processing of data for modeling, baseline assessment, spatial analysis, and cartography
7. **EPANET**: for the analysis and design of water distribution networks
8. **SWMM**: for the analysis and design of stormwater collection systems
9. **WaterCAD:** for the analysis and design of water distribution networks (preliminary use)
10. **SewerCAD:** for the analysis and design of wastewater collection networks (preliminary use)

COURSES TAUGHT:

Undergraduate courses

61100. Introduction to Engineering. Department of Civil Engineering
61351. Environmental Engineering II. Department of Civil Engineering
61441. Hydrology. Department of Civil Engineering
61471. Engineering Economy. Department of Civil Engineering
65301. Engineering Economy and Management. Department of Industrial Engineering
61541. Groundwater. Department of Civil Engineering
61620. Geographic Information Systems (GIS). Department of Civil Engineering
61676. Water Resources Management. Department of Civil Engineering
61341. Fluid Mechanics. Department of Civil Engineering
61345. Hydraulics. Department of Civil Engineering
64300. Principles of Scientific Research and Technical writing. Department of Chemical Engineering

Graduate courses (Master level)

461643. Groundwater. Water and Environmental Engineering
461620. Geographic Information Systems (GIS). Water and Environmental Engineering
461647. Water Resources Management. Water and Environmental Engineering
400512. Natural Resources Management. Environmental Sciences
461640. Water Resources Planning and Development. Transportation Engineering

Master Thesis:

Supervised 18 students in several areas of groundwater modelling, water resources management, wastewater reuse, contamination of water resources, and solid waste management.

PUBLICATIONS (only in the last five years)

1. Shadeed, Sameer and Mohammad N. Almasri, **2010**. Application of GIS- based SCS- CN method in West Bank catchments, Palestine. Water Science and Engineering, 3(1): 1- 13. doi:10.3882/j.issn.1674- 2370.2010.01.001
2. Haj Hamad, Lubna and Mohammad N. Almasri, **2009**. Assessment of nitrate contamination of groundwater using lumped parameter models. Environmental Modelling and Software, 24(9): 1073–1087. doi:10.1016/j.envsoft.2009.02.014

3. Anayah, Fathi and Mohammad N. Almasri, **2009**. Trends and occurrences of nitrate in the groundwater of the West Bank, Palestine. Applied Geography, 29(4): 588–601 doi:10.1016/j.apgeog.2009.01.004
4. Almasri, Mohammad N. and L. S. McNeill, **2009**. Optimal Planning of Wastewater Reuse Using the Suitability Approach: A Conceptual Framework for West Bank, Palestine. Desalination, 248: 428–435. doi:10.1016/j.desal.2008.05.070
5. McNeill, L.S., Mohammad N. Almasri, and N. Mizyed, **2009**. A Sustainable Approach for Reusing Treated Wastewater in Agricultural Irrigation in the West Bank – Palestine. Desalination, 248: 315–321. doi:10.1016/j.desal.2008.05.084
6. Almasri, Mohammad N., **2008**. Assessment of intrinsic vulnerability to contamination for Gaza coastal aquifer, Palestine. Journal of Environmental Management, 88: 577–593. doi:10.1016/j.jenvman.2007.01.022
7. Almasri, Mohammad N., **2008**. Discussion of "Groundwater Flow and Contaminant Transport Simulation with Imprecise Parameters" by Ram Kailash Prasad and Shashi Mathur. Journal of Irrigation and Drainage Engineering, January/February 2007, 199(1): 61–70. 133:1(61)
8. Almasri, Mohammad N. and Said Ghabayen, **2008**. Analysis of Nitrate Contamination of Gaza Coastal Aquifer, Palestine. ASCE Journal of Hydrologic Engineering. 13(3): 132–140
9. Almasri, Mohammad N. and Jagath J. Kaluarachchi, **2007**. Modeling nitrate contamination of groundwater in agricultural watersheds. Journal of Hydrology. 343(3-4): 211–229. doi:10.1016/j.jhydrol.2007.06.016
10. Almasri, Mohammad N., **2007**. Nitrate contamination of groundwater: A conceptual management framework. Environmental Impact Assessment Review. 27: 220–242. doi:10.1016/j.eiar.2006.11.002

PUBLICATIONS IN CONFERENCE PROCEEDINGS (only in the last two years)

1. Sarsak, Reem and Mohammad N. Almasri, 2012. Modeling of Seawater Intrursion Due to Climate Change Impacts in North Gaza Coastal Aquifer Using SEAWAT. Proceedings "Hydrogeology of Arid Environments", p. 137 – 140. Stuttgart.
2. Juaidi Adel and Mohammad N. Almasri, 2011. Estimation of groundwater recharge using ArcGIS-ModelBuilder. The Sixth National GIS Symposium in Saudi Arabia, Khobar, Saudi Arabia. 24 – 26 April 2011.

BOOK CHAPTERS AND CONTRIBUTIONS

1. Almasri, M. N. and J. J. Kaluarachchi, **2011**. Fate and transport of ground water contaminants. Ground water manual of the American Society of Civil Engineers, ASCE.
2. Almasri, M. N. and J. J. Kaluarachchi, **2005**. Best management practices for water resources. Water Encyclopedia: Water quality and resource development. Edited by: J. Lehr, J. Keeley, J. Lehr, and T. B. Kingery III, John Wiley and Sons, Inc. Pages 570–573.
3. Almasri, M. N. and J. J. Kaluarachchi, **2005**. Groundwater flow and transport process. Water Encyclopedia: Ground water. Edited by: J. Lehr, J. Keeley, J. Lehr, and T. B. Kingery III, John Wiley and Sons, Inc. Pages 514–518.

REFERENCES

Available upon request