

Dr. Mohammad A. Al-Olayan

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His interest is concentrated on combining science and engineering with management for a better decision making. After he was conferred his B. S. in Chemical Engineering he worked as a Teaching Assistant at a university while he was doing his M.S. in the same field. Later, he decided to gain field experience. Therefore, he worked after that as a process engineer for oil company. His interest in the field of risk management, risk assessment and decision making increased. He believed that there is always a gap of understanding between scientists and managers and someone should be in between to fill the gap. This mission needs management skills and good understanding for science and engineering. Therefore, he continued his education and finished his doctorate in two majors; risk management and environmental science & engineering. Currently, he is a faculty member at a university where he practicing teaching and research besides providing services and consultancies for companies and agencies.

Education:

Year	Degree	Field	University	Country
2012	Doctor of Science	Environmental Science and Risk Management	Harvard University	U.S.A.
2008	Master of Science	Environmental Science & Engineering	Colorado School of Mines	U.S.A.
2006	Master of Science	Chemical Engineering	Kuwait University	Kuwait
2003	Bachelor of Science	Chemical Engineering	Kuwait University	Kuwait

Work Experience:

2019 – Currently: Member at the Supreme council for Environment – Council of Ministers General Secretariat - Kuwait

2012 - Currently: Assistant professor at Kuwait University department of Environmental Technology Management.

2006 - 2012: Teaching Assistant at Kuwait University department of Environmental Technology & Management.

2003 - 2006: Process Engineer at Kuwait Gulf Oil Company.

Research Areas:

- Risk Assessment & Management.
- Policy & Decision Science
- Impact Assessment
- Environmental Health & Exposure
- Cost-Benefits Analysis
- Environmental pollution (air, water, soil ... etc)

Professional Training Courses:

Course	Company
Pumps & Compressors	John M Campbell
Processing Engineering Fundamentals	GLOMACS
HYSYS Simulation	Aspentech
Multiphase Flow Meter	AGAR corporation
Value Engineering	RWTUV akademie
PRO II simulation	Simulation Sciences inc
Surface Production Operations	Petro Skills
Introduction to Electrical sub impressible Pump application	Baker Hughes
Pumps, Compressors and Turbines Troubleshooting	Harvard Technology

Association:

- American Water Resources Association (AWRA).
- International Society for Environmental Epidemiology (ISEE).
- Society for Risk Analysis (SRA).
- Referee at Kuwait Science & Engineering competition.
- Member at the Kuwait Environmental Public Authority committee for establishing nation emission standards

Publications:

- M. Alolayan, A. Alsanad, L. Aljallal, A. Elmi, Municipal Solid Waste Characteristics and Segregation Efficiency of in-house Direct Sampling in Kuwait, International Journal of Environment and Waste Management, 2020.
- A. Alsanad, M. Alolayan, Heavy Metals in Road-Deposited Sediments and Pollution Indices for Different Land Activities, Journal of Environmental Nanotechnology, Monitoring & Management, 2020.
- A. Elmi, A., Al-Khaldy A., Alolayan M., Sewage Sludge Land Application: Balancing Act Between Agronomic Benefits and Environmental Concerns, Journal of Cleaner Production, 2019.
- Al-Olayan, M. A., Evans, J. S. & Hammitt, J. K.; "Valuing Mortality Risk in Kuwait: Stated-Preference with a new Consistency Test", Environmental and Resource Economics, 2017, 66:629.
- Al-Olayan, M. A.; Brown, K. W.; Evans, J. S.; Bouhamra, W. S.; Koutrakis, P.; "Source Apportionment of fine particles in Kuwait City", Science of Total Environment, 2013, 448:14-25.
- Al-Olayan, M. A.; Hammitt, J. K.; Evans, J. S.; "Estimating the social benefits of reducing SO₂ emission from power plants in Kuwait", Doctoral Thesis, Harvard University, 2012.

Conferences:

- International Society for Environmental Epidemiology (ISEE), 2011, Barcelona, Spain.
- Dust and Sand Storms, 2012, Kuwait.
- Society for Risk Analysis (SRA), 2013, Baltimore, Maryland, USA.
- Society for Risk Analysis (SRA), 2014, Denver, Colorado, USA.
- Clean water, soil and air, 2015, Petaling Jaya, Malaysia.
- 1st Africa/Middle-East Expert Meeting and Workshop on the Health Impact of Airborne Dust, Amman, Jordan, 2-5 November 2015, sponsored by UNEP/ROWA and Kuwait representative.
- World Academy of Science, Engineering and Technology. 18th International Conference on Risk Assessment and Management, 2016, Naarden, Netherland. " best Presentation Award"
- Arab Forum for Environment and Development, 2018, Beirut, Lebanon
- 21st International Conference on Solid Waste, 2019, Sydney, Australia

Given Professional Workshops:

- “Environmental Impact Assessment”, 5 days to Kuwait Municipality in December 2014.

Reviewer:

- Journal of Science of The Total Environment
- International Journal of Environmental Science and Technology

Community services:

- Member in the national committee created through the Public Authority for Environment for establishing national standards for emissions to the ambient between 2016 and 2018
- Member in a committee assigned by the minister of Oil to evaluate the performance of associate deputy minister and recommend whether to renew and extend the contract or not. 2019
- Member at the national environmental awareness campaign “Mobader”
- Participated in many scientific lectures as guest and main speaker
- Hosted on campus and visited many high schools to give the senior students the academic guidance they seek
- Assigned by the General Secretariate of the Supreme Council for Planning and Development in Kuwait, United Nation Development Plan Program in Kuwait, and World Bank Office in Kuwait to coach three teams at Q8 VSCOVID-19 Hackathon, Kuwait Hacks the Crisis, Regional Ideathon in August 2020.