

## CURRICULUM VITA

### Personal Information

Rank Applied for: Associate Professor

Academic Department: Environmental Technology Management

College: College of Life Sciences

Name: Azel Almutairi

Address: Environmental Technology Management Department,  
College of Life Sciences, Sabah Al-Salem University City Campus,  
P.O. Box 5969, Safat 13060, Kuwait  
Kuwait University, Kuwait

Telephone: +965-2498-3100

Email: azel.almutairi@ku.edu.kw

### Education

2006-2011 **Doctor of Philosophy (PhD)**, Water Resources, Pollution, and Management,  
PhD Thesis Title: "Membrane Based Intensification of Ammonia Removal  
from Wastewater" 12/2011  
Department of Chemical Engineering, School of Engineering, University of  
Kansas, Kansas, USA

2002-2005 M.Sc., Chemical Engineering, Kuwait University

1997-2002 B.S., Chemical Engineering, Kuwait University

### Research Interest

- Environmental and Water Pollution Control
- Water Scarcity and Soil Water Management
- Evapotranspiration
- Energy-Water-Food Nexus

## **Work Experience**

- Summer 2001: Total Reclaim Inc. (Environmental Services), Seattle, Washington, USA.
- 2006-2011: Scholarship Kuwait University, KU.
- 2012-now: Assistant Professor –KU, Collage of Life Sciences (CLS), Environmental Technology Management Department
- 2013-2015: Acting Chair of Environmental Technology Management Department. The most remarkable achievements were:
  - o Create a master science degree “Food and Environmental Toxicology” as a joint degree with the department of Food Science & Nutrition (FSN) under the supervision of the CLS Dean and the department of the Food Science and Nutrition (FSN). I intensively contributed in developing of the following courses:
    - Ecological Toxicology (1840-511)
    - Statistics for Toxicologists (1840-514)
    - Risk Assessment (1840-512)
    - Research Methodologies in Food and Environmental Toxicology (1840-515)
    - Fate of Environmental Toxicants (1840-519)
  - o I supervised and conduct a full review of the entire the departmental curriculum. The review included:
    - Delete, add, replace, and alter current courses.
  - o Students admission to our department increased to 35 %.
  - o Implement the College Council Policy regarding initiating a “Departmental Exit Exam”.
  - o Create a “Departmental Council” with members from the public and private sectors to cope with labor market demand.
  - o Equipped the department’s Research Laboratories with State-of the-art tools that funded by His Highness Sheikh Sabah Al Ahmad Al Jaber al Sabah Grant.

## **Voluntary Work**

- Conduct several public lectures for governmental agencies such as Environmental Protection Authority, from 2012 till now. Lectures were focused on industrial water pollution, water management, and renewable energy.
- On 2014, I contributed to the environmental assessment of the main facilities in Al-Adaylia city as part of Al-Adaylia Social Council activities.
- On 2018, I was assigned as a representative on behalf of Kuwait University in the social agreement between Yarmouk health city and Kuwait University.

The main actionable objective was to maintain the fulfillment of the World Health Organization (WHO) requirements to turn into the first model health city in Kuwait by enhancing the environmental aspects in the city.

- Proposed an amendment on the Kuwaiti Environmental Protection Law (Law # 42 for 2014) to encounter the Pollutant Release and Transfer Registers concept to be applied as a model in the MENA area.
- Conduct educational lectures on environmental awareness for public and private schools in Kuwait.

### **Teaching Experience at Kuwait University**

- **Undergraduate Courses:**
- CLS 105: Chemistry
- CLS 107: Algebra
- CLS 108: Applied Calculus
- CLS 109: Statistics
- CLS 120: Humans and their environment
- ETM 202: Introduction to quantitative environmental analysis
- ETM 320: Unit Treatment Technologies
- ETM 421: Industrial Pollution Prevention
- ETM 432: Environmental Statistics
- FSN 304: Biostatistics
- 1340-308: Natural Resources Conservation
- 1340-304: Water Resources
- **Graduate Courses:**
- 2040-521: Pollution Prevention (Environmental Science Program).

## **Publication**

1. **Azel Almutairi**. 2011. Membrane Based Intensification of Ammonia Removal from Wastewater. **Proquest Dissertations and Theses Global**.
2. **Azel Almutairi**, L.R. Weatherley. 2015. Intensification of ammonia removal from wastewater in biologically active zeolitic ion exchange columns. **Journal of Environmental Management**. 160, 128-138.
3. **Azel Almutairi**, Abdullah Alsanad, Heba Alhelailah. 2019. Evaluation of the Indoor Air Quality in Governmental Oversight Supermarkets (Co Ops) in Kuwait. **Applied Sciences**. 9, (22), 4950.
4. **Azel Almutairi**. 2019. Evaporation Estimation of a Temporary Pond in Arid Region Using Aerodynamic, Combined, and Energy Balance Models. **International Journal of Engineering Research and Technology**. 12, (10), 1769-1777.
5. **Azel Almutairi**. 2020. Indoor Environment Quality Indicators in Supermarkets in Kuwait. **International Journal of Structural and Civil Engineering Research**. 9, (1), 77-80.
6. **Azel Almutairi**. 2021. Estimation of reference evapotranspiration under hyper-arid climates: Testing several Vapor Pressure Deficit Models. **Ecology, Environment and Conservation**. 27, (1), 421-433.
7. **Azel Almutair**, Suad Aladwani, Bedour Almutairi. *Accepted* 2020. Soil Temperature Profile Investigation Under Arid Climate of Kuwait. **Environmental Engineering and Management Journal**. *In press*.
8. **Azel Almutairi**, Mohammad Alshawaf. *Accepted* 2021. Pan Evaporation Modeling with Artificial Neural Network and Multivariate Nonlinear Regression Compared to Empirical Methods Under an Arid Environment. **Indian Journal of Environmental Protection**. *In press*.

## **Ongoing Project**

1. Abdullah Alsanad, **Azel Almutairi**, and Heba Alhelailah. *Submitted* March 2021. Assessment of knowledge patterns of the community of Kuwait regarding potential safety threats of Compact Fluorescent Lamps. Submitted to: **Journal of Occupational & Environmental Hygiene**.
2. **Azel Almutairi**. *Submitted* April 2021. Multi-Model Ensemble Approach for ETo Assessment in GCC Region. Submitted to: **Water**.

3. Suad Aladwani and **Azel Almutairi**. *Draft manuscript*. The contamination of air pollution originated from road dust and roadside soil.
4. **Azel Almutairi**. *Under Analysis*. Examining Pollution Prevention Techniques in Industrial Firms in Kuwait Using Partial Least Square Method.

#### **Funded Projects by Kuwait University: Principal Investigator (PI)**

1. **(ZW02/14)**. Kinetics of Ammonia Removal from Wastewater. *Completed*. Project budget: 2,000 KWD.
2. **(FE01/19)**. Manganese Removal from Aqueous Solution by Sorption Onto Nano-Hydroxyapatite: A Morphological Comparative Study. *Ongoing*. Project budget: 3,100 KWD.

#### **Master Thesis and PhD Dissertation Co-Supervision**

1. Simulation of Aquifer Storage Recovery Efficiency in Kabd, State of Kuwait using Modflow. Afnan Al-Huwaishel. *Defended*. 2019. Master Thesis, Kuwait University.
2. Modeling Groundwater Flow and Seawater Intrusion in the Coastal Aquifers of Kuwait. Bashayer Alshamary. *Ongoing project*. PhD Dissertation, University of Strasbourg, France.

#### **Posters**

- Environmental awareness among Kuwait University's students. 2017. **The Scientific Poster Day Event in Kuwait University**.

#### **International Conferences**

1. International Conference on Management Science and Industrial Engineering, **Thailand**, May 2019.
2. 22<sup>nd</sup> International Symposium on Analytical and Applied Pyrolysis, **Japan**, May 2018.

3. World Water Week, United Nations, Stockholm, **Sweden**, August 2017.
4. Sustainable Development of Water Resources, Doha, **Qatar**, May 2015.
5. NGWA Groundwater Summit, Denver, **USA**, May 2014.
6. International Bursa 3rd Water Congress and Exhibition, Bursa, **Turkey**, March 2013.

## Committees

From 2012 until now, I am/was member or convener of a large number of committee services as summarized in Table 1.

**Table 1: Responsibilities and Committees at (a) Departmental Level, (b) College Level**

### (a) Departmental Level

<b>Responsibility</b>	<b>Position</b>	<b>Period</b>
Chairmanship	Acting Chairman	2013-2015
Scholarship committee	Convener	2013-2015
Recruitment and Contract renewal	Convener	2013-2015
	Member	2019-2020
Scientific and Academic	Convener	2013-2016
	Member	2016-2018 2020-2021
Accreditation & Academic Assessment	Member	2013-2014
Scheduling Committee	Member	2018-2020
Student Affairs and the Department Activities	Member	2012-2016 2017-2018
	Convener	2016-2017
Library Committee	Member	2012-2013

		2018-2020
Laboratories committee	Member	2012-2013 2019-2021
Student Portfolio	Member	2015-2016
	Convener	2020-2021
Research and Graduate Studies	Member	2015-2016 2019-2020
O <sub>2</sub> Club	Supervisor	2018-2019

**(b) College Level**

<b>Responsibility</b>	<b>Position</b>	<b>Period</b>
Chairmanship Committee	Member	2013-2015
College Council	Member	2013-2015
Scholarship committee	Member	2013-2015
College Biennial Conference committee	Member	2013-2014
Student Portfolio	Member	2020-2021



