

## **Nawaf Salem Alhajeri**

### **Associate Professor**

Department of Environmental Technology Management (ETM)

College of Life Sciences

College of Graduate Studies

Kuwait University

P.O. Box 5969, Safat 13060, Kuwait

Tel: (+965) 24633936

Fax: (+965) 24633123

alhajeri.n@ku.edu.kw

### **EDUCATION**

#### **University of Texas at Austin**

Ph.D. – Civil, Architectural and Environmental Engineering, June 2012.

Major field: Environmental and Water Resources Engineering.

Diss. title: *Sustainable Energy Systems: The Environmental Footprints of Electricity Generation Systems – Mechanisms for Managing Electricity, Water Resources and Air Quality.*

#### **University of Texas at Austin**

M.S.E.– Environmental and Water Resources Engineering, May 2010.

Thesis title: *Assessing the Sustainability of Transportation Fuels: The Air Quality Impacts of Petroleum, Bio and Electrically Powered Vehicles.*

A Grade Point Average (GPA) of 4.0

#### **Kuwait University**

M.Ch.E.– Chemical Engineering, January 2008.

#### **Kuwait University**

B.S.E. – Chemical Engineering, August 2005.

Distinction with class of honors.

**PROFESSIONAL EXPERIENCE**

**Vice Dean for Planning, Consulting and Training**, College of Life Sciences, Kuwait University, August 2020 – present.

**Associate Professor**, Department of Environmental Technology Management (ETM), College of Life Sciences, Kuwait University, July 2020 – present.

**Assistant Professor**, Department of Environmental Technology Management (ETM), College of Life Sciences, Kuwait University, July 2012 – July 2020.

**Kuwait University Scholarship**, Department of Environmental Technology Management (ETM), (Master's and Ph.D.). College for Women, Kuwait University, August 2008 – June 2012.

**Safety Engineer**, Office of Vice Dean for Planning & Career Development, College for Women, Kuwait University, August 2005 – May 2008.

**Area of Expertise:**

Energy and Environmental Engineering

Renewable Energy

Environmental Sustainability

Air Quality Modelling

**Technical Interests:**

Sustainable Energy Systems

Sustainable Transportation Fuels

GHG emissions and Climate Change

Atmospheric Chemistry and Ambient Air Quality Modeling

Indoor Air Quality

Human Exposure to toxins in indoor environments

**PUBLICATIONS (Peer-reviewed articles)**

Yassin, M.F., **Alhajeri, N.S.**, Elmi, A.A., Malek, M.J. and Shalash, M., (2021). Numerical simulation of gas dispersion from rooftop stacks on buildings in urban environments under changes in atmospheric thermal stability. *Environmental Monitoring and Assessment*, 193(1), pp.1-19.

Alshawaf, M., Poudineh, R. and **Alhajeri, N.S.**, (2020). Solar PV in Kuwait: The effect of ambient temperature and sandstorms on output variability and uncertainty. *Renewable and Sustainable Energy Reviews*, 134, p.110346.

**Alhajeri, N. S.**, Dannoun, M., Alrashed, A., & Aly, A. Z. (2019). Environmental and Economic Impacts of Increased Utilization of Natural Gas in the Electric Power Generation Sector: Evaluating the Benefits and Trade-offs of Fuel Switching. *Journal of Natural Gas Science and Engineering*, (71), 102969.

Al-Fadhli, F. M., **Alhajeri, N. S.**, Aly, A. Z., & Allen, D. T. (2019). The impact of power plant emission variability and fuel switching on the air quality of Kuwait. *Science of The Total Environment*, 672, 593-603.

**Alhajeri, N. S.**, Al-Fadhli, F. M., Aly, A. Z., Reimers, A., & Webber, M. E. (2018). Electric Power System Profile in Kuwait: Electricity and Water Generation, Fuel Consumption and Cost Estimation. *ACS Sustainable Chemistry & Engineering*. 2018 6 (8), 10323-10334  
DOI: 10.1021/acssuschemeng.8b01672

**Alhajeri, N.S.**; Al-Fadhli, F.M.; Aly, A.Z. (2019) Unit-Based Emissions Inventory for Electric Power Systems in Kuwait: Current Status and Future Predictions. *Sustainability* 2019, 11, 5758.

**Alhajeri, N. S.**, Al-Fadhli, F. M., & Alrukaibi, D. S. (2019). In-vehicle exposure of carbon monoxide, nitrogen dioxide and total volatile organic compounds from ethanol versus gasoline fuel. *International Journal of Environmental Science and Technology*, 16(6), 2707-2720.

- Al-Rashidi, M. S., Yassin, M. F., **Alhajeri, N. S.**, & Malek, M. J. (2018). Gaseous air pollution background estimation in urban, suburban, and rural environments. *Arabian Journal of Geosciences*, 11(3), 59.
- Yassin, M.F., Almutairi, H., **Alhajeri, N. S.** et al. (2016). Assessment of noise exposure and associated health risk in school environment, *Int. J. Environ. Sci. Technol. August 2016, Volume 13, Issue 8, pp 2011–2024.*
- Mohamed F. Yassin, **Nawaf S. Alhajeri** and Mohamed A. Kassem (2016). Polycyclic aromatic hydrocarbons collected from indoor built environments on heating, ventilation and air conditioning dust filters. *Indoor and Built Environment, Vol. 25(1) 137–150.*
- Adam P Pacsi, **Nawaf S Alhajeri**, Mort D Webster, Michael E Webber and David T Allen (2013). Changing the spatial location of electricity generation to increase water availability in areas with drought: a feasibility study and quantification of air quality impacts in Texas. *Environmental Research Letters*, 8, 035029.
- Pacsi, A.P., **Alhajeri, N.S.**, Zavala-Araiza, D., Webster, M.D., Allen, D.T. (2013). Regional air quality impacts of increased natural gas production and use in Texas. *Environmental Science and Technology* 47 (7).
- Alhajeri, N.S.**, McDonald-Buller, E.C., & Allen, D.T. (2011). Comparisons of air quality impacts of fleet electrification and increased use of biofuels. *Environmental Research Letters*, 6, 024011.
- Alhajeri, N.S.**, Donohoo, P., Stillwell, A.S., King, C.W., Webster, M.D., Webber, M.E., & Allen, D.T. (2011). Using market-based dispatching with environmental price signals to reduce emissions and water use at power plants in the Texas grid. *Environmental Research Letters*, 6, 044018.

**CONFERENCE PAPERS**

**Nawaf S. Alhajeri** and Ahmed Z. Aly. (2018). Optimizing the fuel mix to reduce NO<sub>x</sub> emissions from electric power systems. WEENTECH Proceedings in Energy 4 (2018) 227-235 (ICEEE10218). 3<sup>rd</sup> International conference on Energy, Environment and Economics (ICEEE2018), 14-16 August 2018. Heriot-Watt University. United Kingdom.

**Nawaf S. Alhajeri**, Ahmed Z. Aly, Fahad M. Al-Fadhli. (2018). Assessing the Impact of Adopting Electrically Powered Vehicles on Kuwait's Air Quality. (CITI2018\_0335). Urban Transitions 2018 Conference - Integrating Urban and Transport Planning, Environment and Health for Healthier Urban Living. 25 - 27 November 2018 | Sitges, Barcelona Spain.

**Nawaf S. Alhajeri**, Fahad M. Al-Fadhli, Ahmed Z. Aly, Andrew Reimers, and Michael E. Webber. (2018). A Quantitative Assessment of Electric Power System Contributions to Atmospheric Pollutants In Kuwait. 11<sup>th</sup> International Conference On Sustainable Energy & Environmental Protection – (SEEP100465) 8-11 May 2018. University of West Scotland. United Kingdom.

Ahmed Z. Aly, Fahad M. Al-Fadhli, **Nawaf S. Alhajeri**, Andrew Reimers, and Michael E. Webber. (2018). Impact of Power plants on the Ambient Air Quality of Kuwait. 11<sup>th</sup> International Conference On Sustainable Energy & Environmental Protection – (SEEP) 8-11 May 2018. University of West Scotland. United Kingdom.

O. Alqabandi, **N. S. Alhajeri**, M. F.Yassin, F. Al-Fadhli. (2016). Assessment of the Exposure to Volatile Organic Compounds (VOCs) in Service Stations in Kuwait. Second Kuwait International Conference on Life Sciences. April 4-6, 2016, Kuwait University, Kuwait.

B. Al-Khaldi, F. Al-Fadhli, **N. S. Alhajeri**, M. F.Yassin. (2016). Investigation of Volatile Organic Compounds Exposure and Health Hazard Risk Assessment in Beauty Salons in Kuwait. Second Kuwait International Conference on Life Sciences. April 4-6, 2016, Kuwait University, Kuwait.

A.Mahmoud, **N. S. Alhajeri**, M. F.Yassin, F. Al-Fadhli. (2016). Assessment of Air Quality and Pollution Sources in the Southern Region of Kuwait using Open Air R Model. Second Kuwait International Conference on Life Sciences. April 4-6, 2016, Kuwait University, Kuwait.

**Alhajeri, N.S.**, McDonald-Buller, E.C., & Allen, D.T. (2012). Impacts of Replacement of Gasoline and Diesel with Biofuels on Ozone Concentrations: A Central Texas Case Study. Air and Waste Management Association Conference (AWMA). Extended Abstract 2012-A-292-AWMA.

**Alhajeri, N.S.**, Donohoo, P., Webster, M.D., Webber, M.E., & Allen, D.T. (2012). The Effects of Market-Oriented Price Signals for NO<sub>x</sub> and CO<sub>2</sub> on Emissions at Power Generation System in the Texas Grid. Air and Waste Management Association Conference (AWMA). Extended Abstract 2012-A-317-AWMA.

Adam P Pacsi, **Nawaf S Alhajeri**, Elena C McDonald-Buller, Mort D Webster and David T Allen. (2012). The Impact of Market-Based Environmental Prices for Power Plant NO<sub>x</sub> Emissions on PM Formation in Texas. Air and Waste Management Association Conference (AWMA). Extended Abstract 2012-A-319-AWMA.

## **GOVERNMENT REPORTS**

1. Nawaf S. **Alhajeri**, Fahad M. Al-Fadhli, Ahmed Z. Aly, Andrew Reimers, and Michael E. Webber. (2018). Approaches to Enhance the Sustainability of Energy Systems in Kuwait: Environmental Impact and Cost Estimation of Changing Fuels in Kuwait's Electricity Grid". Kuwait Foundation for the Advancement of Science (KFAS)/Kuwait University (Project Code: P214-42WE-02).
2. Murphy, CF, O'Donnell, M., **Alhajeri**, N., McDonald-Buller, E., Strank, S., Liu, MHP, Webber, M., Allen, D., Hebner, R. (2010). Analysis of Innovative Feedstock Sources and Production Technologies for Renewable Fuels. *EPA Project Number XA-83379501-0, Final Report, US Environmental Protection Agency: Austin, TX.*

**REFEREE IN INTERNATIONAL JOURNALS:**

- Environmental Science and Technology
- International journal of Environmental Science and Technology
- ACS Sustainable Chemistry & Engineering
- International journal of Energy and Water Resources
- The Journal of the Air & Waste Management Association

**WORKING PAPERS (Unpublished)**

Alhajeri, N.S., & Allen, D.T. (2012). Assessment of Emissions Trading: The Impacts on Ozone Concentrations. Working Paper.

Alhajeri, N.S., Webster, M.D., & Allen, D.T. (2012). The Sensitivity of Market-Based Dispatching With Environmental Price Signals to Electricity Demand in the Texas Grids.

Alhajeri, N.S., Donohoo, P., Webster, M.D., Webber, M.E., & Allen, D.T. (2012). Assessing the Impacts of CO<sub>2</sub> and NO<sub>x</sub> Pricing Policies on Electric Power System: Trade-offs and Co-benefits. Working Paper.

Alhajeri, N.S., McDonald-Buller, E.C., & Allen, D.T. Environmental Implications of Biofuel-powered Vehicles: Air Quality Impacts of Ethanol (E85) and Biodiesel (B100). Working Paper.

Alhajeri, N. S. (2009). Assessment of the Pollution Levels and Ventilation System in a Road Tunnel “A Case Study”. Working Paper.

Alhajeri, N. S. (2009). The Future Air Quality Benefit to Austin: Partial Electrification of the Transportation Fleet, Plug-in Hybrid Electric Vehicle (PHEVs) Vs. Biofuels (E85 and B100). Working Paper.

**RESEARCH AND PROJECTS**

February, 2021, Principal Investigator (PI). Sustainable Agriculture Using Solar Desalination: A Pathway to Food Security in the State of Kuwait. Kuwait Foundation for the Advancement of Science (KFAS)/Kuwait University (Project Code: CN19-35EM-05).

February, 2021, Principal Investigator (PI). Modelling and Assessing the Impact of Kuwait's Partial Lockdown Due to COVID-19 on Air Pollution. Kuwait Foundation for the Advancement of Science (KFAS)/Kuwait University (Project Code: PN20-15EV-01).

March, 2019. "Security Roadmap for West Asia and the Arabian Peninsula - Environmental Issues and Climate Change". The Center for Applied Research in Partnership with the Orient (CARPO), and the Gulf Research Center Foundation (GRCF), Bonn, Germany.

August, 2018, "Air Quality Monitoring – Citizens Sciences Project". Kuwait Foundation for the Advancement of Science (KFAS)/Kuwait University (Project Code: XK41-18).

September, 2015: Principal Investigator (PI). "Approaches to Enhance the Sustainability of Energy Systems in Kuwait: Environmental Impact and Cost Estimation of Changing Fuels in Kuwait's Electricity Grid". Kuwait Foundation for the Advancement of Science (KFAS)/Kuwait University (Project Code: P214-42WE-02), KD 121510.

April, 2014: Principal Investigator (PI). Research Initiation Grant (RIG), "Modelling the Air Quality impact of Az-Zour Power Station". Kuwait University, Project No. ZW05/14, KD 2000.

September, 2009: Research Team, "Analysis of Innovative Feedstock Sources and Production Technologies for Renewable Fuels: Life Cycle Assessment (LCA) of Alternative Feedstocks for Production of Biodiesel and Ethanol Transportation Fuels, EPA Cooperative Agreement XA-83379501-0, \$600,000.

September, 2008: Research Team, "The Interface of Infrastructures, Markets, and Natural Cycles—Innovative modeling and control mechanisms for managing electricity, water and air quality in Texas," U.S. National Science Foundation, Emerging Frontiers in Research and Innovation (EFRI), \$4,000,000.



**HONORS AND AWARDS**

Funded Research Incentive Reward, Final Report Reward, (2019), Kuwait Foundation for the Advancement of Science (KFAS) and Kuwait University (KU).

Funded Research Incentive Reward (2018), Productivity Reward, Kuwait Foundation for the Advancement of Science (KFAS) and Kuwait University (KU).

Kuwait University incentive award for early completion of Master's and Ph.D. degrees, 2012.

Kuwait University scholarship for Master's and Ph.D., 2008-2012.

Distinguished Students List (2002, 2003, 2004 and 2005), Kuwait University.

Certificate of Field Training (Honors Program - 2005).

Dean's List of Academic Distinction (2002, 2003, 2004 and 2005), Kuwait University.

Most Outstanding Students List (2005), Kuwait University.

Certificate of Academic Excellence (2004). Kuwait University.

**PROFESSIONAL PARTICIPATION**

June 2021, Webinar: Modern Solutions Toward Sustainable Cities, Organized by Arab Union for Sustainable Development and Environment, Virtual.

March 2021, Comprehensive Exam Committee, Environmental Sciences Joint Program, College of Graduate Studies, Kuwait University.

August 2020, Execution Committee for Examining Candidates for Supervisory Positions, Ministry of Electricity and Water (MEW), Kuwait.

December 2019, Judge, Engineering Design Exhibition 37, Engineering Training and Alumni Center (ETAC), College of Engineering and Petroleum, Kuwait University, Kuwait.

June 2019, Judge, Engineering Design Exhibition, Engineering Training and Alumni Center (ETAC), College of Engineering and Petroleum, Kuwait University, Kuwait.

April 2019, "Challenges in Developing Sustainable Infrastructure, First International Conference", Kuwait, 23 – 25 April 2019, Kuwait.

April 2019, Working Group Workshop, Kuwait Municipality and World Bank, Municipal Solid Waste Management Program, 22 – 23 April 2019, Kuwait.

- March 2019, Working Group Workshop “Security Roadmap for West Asia and the Arabian Peninsula - Environmental Issues and Climate Change” The Center for Applied Research in Partnership with the Orient (CARPO), and the Gulf Research Center Foundation (GRCF), 18 – 19 March 2019, Bonn, Germany.
- November 2018, Urban Transitions 2018 Conference - Integrating Urban and Transport Planning, Environment and Health for Healthier Urban Living. 25 - 27 November 2018 | Sitges, Barcelona Spain.
- August 2018, 3<sup>rd</sup> International conference on Energy, Environment and Economics (ICEEE2018), 14-16 August 2018. Heriot-Watt University. United Kingdom.
- May 2018, 11<sup>th</sup> International Conference on Sustainable Energy & Environmental Protection – (SEEP) 8-11 May 2018. University of West Scotland. United Kingdom.
- March 2018, Air Quality Impact of Petrochemical Systems in Kuwait. Fatemah M. Ajeel and Nawaf S. Alhajeri. Scientific Posters Day, Kuwait University.
- February 2018, GLOBAL HSE 2018: 6<sup>th</sup> International Conference and Exhibition on Health, Safety & Environment 2018.
- January 2018, Jury, 10<sup>th</sup> International Invention Fair in the Middle East (IIFME). Kuwait Science Club in collaboration with the International Exhibition of Inventions of Geneva.
- April 2017, Judge, Fifth Kuwait Science and Engineering Competition (KSEC). Kuwait Science Club. Kuwait Foundation for the Advancement of Science (KFAS). Kuwait.
- March 2017, Emissions Assessment and Cost Analysis of Using Different Types of Fossil Fuels at Power Plants in Kuwait. Mohannad Dannoun, Abdallah Alrashed and Nawaf S. Alhajeri. Scientific Posters Day, Kuwait University.
- March 2017, The Temporal and Spatial Variations of Atmospheric Pollutants in the Southern Region of Kuwait. Anwar M. MohammedAli and Nawaf S. Alhajeri. Scientific Posters Day, Kuwait University.
- March 2017, Using Atmospheric Dispersion Modeling System to Assess the Environmental Impact of Az-Zour Power Station. Bedour Kh. Almutairi and Nawaf S. Alhajeri. Scientific Posters Day, Kuwait University.
- August 2016, 7 – 8<sup>th</sup>, 2016 IIER 84th International Conference on Natural Science and Environment (ICNSE), Zurich, Switzerland.
- April 2016, Judge, Fourth Kuwait Science and Engineering Competition (KSEC). Kuwait Science Club. Kuwait Foundation for the Advancement of Science (KFAS). Kuwait.

April 2016, 4 - 6<sup>th</sup>, Second Kuwait International Conference on Life Sciences. Life Sciences for the Social Good. Kuwait University, Kuwait.

March 2016, The Effects of Market-Oriented Price Signals for NO<sub>x</sub> and CO<sub>2</sub> on Emissions from the Power Generation System. Alhajeri N. and Allen D. Scientific Posters Day, Kuwait University.

March 2016, Energy and Environmental Discharges of Plastic, Recycled and Bio- Degradable Bags: An Environmental Perspective for the State of Kuwait. Althafeery E., Almunifi Sh. and Alhajeri N. Scientific Posters Day, Kuwait University.

February 2015, 24<sup>th</sup> Global Conference on Energy and Sustainable Development. Coventry University. United Kingdom.

April 2014, Session Chair. 1<sup>st</sup> Kuwait International Conference on Life Sciences. Towards Sustainable Society: Exploring connections of life sciences to society, Kuwait.

March 2014, 9<sup>th</sup> International Conference on Air Quality – Science and Application. Garmisch-Partenkirchen, Germany.

September 2013, Member, College Council of 2013/2014, College for Women, Kuwait University.

June 2012, Speaker, “Session Title: Atmospheric Chemistry and Measurements Session”. Air and Waste Management Association Conference, 2012.

June 2012, Speaker, “AIRM-FriAM1, Session Title: GHG emissions estimation”. Air and Waste Management Association Conference, 2012.

January 2012, Intensive Course at Massachusetts Institute of Technology (MIT), Engineering Systems Division, “Electric Power System Model: PowerWorld Simulator”.

March 2011, "Workshop on Policy Relevant Background Ozone Concentrations in the United States." The Center for Energy and Environmental Resources (CEER). Austin, TX.

February 2010, “EFRI RESIN: Infrastructures, Markets, and Natural Cycles: Managing Electricity, Water and Air Quality in Texas; Transformative Research in Resilient and Sustainable Infrastructures,” National Science Foundation, Team Workshop.

December 2009, “The Interface of Infrastructures, Markets, and Natural Cycles: Innovative Modeling and Control Mechanisms for Managing Electricity, Water and Air Quality in Texas,” National Science Foundation – Team Presentations and Workshop.

January 2008, “Safety Team: Investigating Safety Systems at Kuwait University” Kuwait University, Team Meeting, Khaldeya Campus, Kuwait.

June 2005, Engineering Training Course, Veg. Oil Refining plant, Kuwait Flour Mills & Bakeries Company, Kuwait.

### **INVITED LECTURES**

December 2016, Speaker, “Protecting Coastal Areas and Fish Resources”, Ministry Of Social Affairs and Labor, Kuwait.

January 2015, Speaker, “Work Environment”, Management Training and Development Sector, Kuwait University, Kuwait.

May 2014, Speaker, “Exposure to Indoor Air Pollution”, Civil Engineering Department, College of Engineering and Petroleum, Kuwait University.

January 2013, Speaker, “Global Warming and Its Impact on the Environment”, Ministry of Education, Kuwait.

December 2012, Speaker, “Introduction to Indoor Air Quality”, Green Camp., Kuwait Society of Engineering, Kuwait.

November 2012, Speaker, “Indoor Air Quality – Physics and Chemistry”, Chemical Engineering Department, College of Engineering and Petroleum, Kuwait University.

### **TEACHING RECORD**

#### **Graduate Courses:**

- Foundations of Environmental Sciences, College of Graduate Studies, CGS 500
- Energy Conservation, College of Graduate Studies, CGS 520.
- Environmental Problems Solving with Computers, College of Graduate Studies, CGS 565.
- Human Exposure to Indoor Air Pollution, College of Graduate Studies, CGS 569.

#### **Undergraduate Courses:**

- Introduction to Environmental Engineering, ChE 304
- Introduction to Environmental Science, CLS 101.
- Chemistry, CLS 105.
- Statistics, CLS 109.

- Humans and their Environment, CLS 120.
- Global Change and Environmental Sustainability, ETM 341.
- Introduction to Quantitative Environmental Analysis, ETM 202.
- Environmental Statistics, ETM 432.
- Capstone, ETM 499.
- Portfolio Review, ETM 088.
- Internship, ETM 495.
- Application of Information Systems in ETM, ETM 450

**THESIS SUPERVISION:**

<b>Student ID</b>	<b>Title of the Thesis</b>	<b>Student name</b>	<b>Status</b>
212124909	Assessment of Air Quality Trends and Pollution Sources in the Southern Region of Kuwait using Openair	Anwar Mahmoud	Completed
208221844	Assessment of the Exposure to Volatile Organic Compounds (VOCs) in Service Stations in Kuwait	Omar Al-Qabandi	Completed
214127359	Simulating the air quality impact of petrochemical systems in the Southern region of Kuwait	Fatemah Mater	Completed
215128438	Optimization of operational processes at cogeneration plants in Kuwait	Fajer AlAjmi	Completed
215122471	Analyzing the operational processes in Kuwait power plant to control the energy consumption of cogeneration plants	Asma Alsasal	Completed
216129681	Assessing the Impact of Adopting Electrically Powered Vehicles on Kuwait 's Air Quality	Ahmed Aly	Completed
216129666	Assessment of the most environmental feasible fuel mix for the fuel used in power plants in Kuwait	Abdullah Alrashed	On-going
216122646	Emissions of Greenhouse Gases (GHGs) from Point Sources in Kuwait: Temporal Analysis of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> O	Latifa AlOmairi	On-going
217121552	Optimum Clean Electricity Generation Mix for Kuwait's Power System by 2050	Ahmad Alazemi	On-going

**PROJECT SUPERVISION:**

<b>Student ID</b>	<b>Student name</b>	<b>Status</b>
213122267	Bedoor Alqanoor	Completed
213126185	Fatma Albahrani	Completed
212125375	Fatema E. Alyaqoub	Completed
213122310	Fedhah J. Alsuliman	Completed
215127985	Mohammad S. Al-Ali	Completed
215128429	Saoud Aziz Wadi	Completed

## **COMMITTEES**

### **Departmental Level**

<b>Committee Name</b>	<b>Designation</b>	<b>Times</b>	<b>Last Time</b>
Scientific Affairs	Member	5	2019
Scholarship	Member	2	2019
Students Affairs & Course Schedule	Coordinator	6	2020
Accreditation & Academic Assessment	Member	4	2019
College Plan & Departmental Activities	Member	8	2020
Laboratory & Instrumentation	Coordinator	6	2019
Recruitment & Employment	Coordinator	2	2019
Research & Graduate Studies	Member	4	2018
Portfolio Committee	Coordinator	3	2018
Library Committee	Member	3	2020

### **College Level**

<b>Committee Name</b>	<b>Designation</b>	<b>Times</b>	<b>Last Time</b>
Scientific Affairs	Member	1	2020
Steering Committee of Course Schedule	Member	5	2019
College Strategic Plan	Member	1	2020
Annual Report	Coordinator	1	2020
New Campus Follow-up	Member	3	2019
Research & Graduate Studies	Member	2	2018
Students Affairs & Course Schedule	Member	1	2017
College Council	Member	2	2020
Kuwait International Conference on Life Sciences	Member	3	2018

### **University Level**

<b>Committee Name</b>	<b>Designation</b>	<b>Times</b>	<b>Last Time</b>
Comprehensive Exam Committee, Environmental Sciences Joint Program, College of Graduate Studies,	Member	1	2021
Environmental Sciences Team – Research Sector	Member	1	2020
Food Safety Graduate Program	Member	1	2019
Environmental and Food Toxicology Graduate Program	Member	2	2019
New Campus Follow-up Team	Member	3	2019
Safety Team	Member	1	2008

## **PROFESSIONAL AFFILIATIONS**

- American Academy of Environmental Engineers (AAEE)
- Air and Waste Management Association (AWMA)
- Association of Environmental and Resource Economists (AERE)
- American Public Health Association (APHA)

- Solid Waste Association of North America (SWANA)
- Water Environment Federation (WEF)
- International Society of Exposure Science (USES)
- International Society of Indoor Air Quality and Climate (ISIAQ)