

Personal Information

Name: Dr. Wesam Al Madhoun

Email: wesam@gsdevelopment.org, wsah79@gmail.com



Qualifications

- **Fellowship** (Malaysia Sustainable Cities Program) at Massachusetts Institute of Technology. (**2016**)
- **Post Doctorate at** Air Resources Research Lab-Malaysian-Japan International Institute of Technology (**2015**)
- **PhD** of Environmental Engineering, Universiti Sains Malaysia (**2011**)

Thesis Title: "**Monitoring and Modeling of Non Methane Hydrocarbons (NMHC) in Various Areas in Pulau Penang, Malaysia**"

- **M.Sc.** of Environmental Engineering, Universiti Sains Malaysia (**2004**)

Thesis Title " **A study of Air Quality Issues and Applications in the Environmental Impact Assessment of Development Projects in Malaysia**"

- **B.Sc** of Civil Engineering from IUG Gaza, Palestine (**2003**)

Expertise Areas

- **Sustainable Development.**
- **Environmental Impact Assessment**
- **Air and Noise Pollution Assessment**
- **Climate Change**
- **Environmental Planning and Management**

Experiences

8/2021-Present, Faculty of Engineering at Gaza University.	Dean
6/2020-Present, Impact Youth Sustainability-Ambassadors of Sustainability”	President and Founder “A global initiative of 10500 members from 120 countries”
3/2020-3/2021, Faculty of Civil Engineering and Built Environment, Universiti Tun Hussein Onn Malaysia.	Senior Lecturer
7/2019-2/2020, Malaysia-Japan International Institute of Technology (MJIT), UTM, Malaysia.	Visiting Scholar
5/2019-02/2020, USAID- funded Building Healthy Cities Project-Indonesia, JSI Research & Training Institute, Inc.	Consultant of Air Quality Impact Assessment
9/2017-4/2019, Department of Civil and Environmental	Senior Lecturer

Engineering, Universiti Teknologi PETRONAS, Malaysia.	
01/2018-4/2019 , Center for Urban Resource Sustainability, Universiti Teknologi PETRONAS, Malaysia.	Researcher and Secretary
07/2017-9/2017 , School of Civil and Environmental Engineering, University of Windsor, Canada.	Visiting Scholar
01/2017-06/2017 , School of Environmental Engineering, University of Seoul, Korea.	Research Professor
9/2015-5/2016 , MIT - UTM Malaysia Sustainable Cities Program, USA and Malaysia.	Visiting Scholar at Massachusetts Institute of Technology, USA
9/2012-8/2014 , Global Development and Sustainability Group (GDSG).	Founder and Principal Researcher
9/2014-5/2015 , Malaysia-Japan International Institute of Technology (MJIT), UTM, Malaysia.	Post-Doctoral Fellow
9/2011-8/2014 , Environment and Earth Sciences Department, IUG Gaza.	Assistant Professor
6/2012-8/2012 , School of Civil Engineering, Universiti Sains Malaysia.	Visiting Lecturer (Clean Air Research Group)
2/2008-2/2011 , School of Civil Engineering, Universiti Sains Malaysia.	Research Fellow (Clean Air Research Group) and Teaching Assistant
11/2006-10/2007 , World Vision Jerusalem, West Bank-Gaza.	Program Development Coordinator , (Assessment of Proposed ADP in Gaza), funded by AusAID. Livelihood projects.
8/2006-10/2006 , Palestinian Center for Human Resources Development "Pchrd", Gaza	Project Manager , (Community Mobilization and livelihood Improvement Project)/ Hanan Project, funded by USAID.
3/2006-5/2006 , Environment and Infrastructure Consultants "Enfra", Gaza	Project Manager Assistant , a project in the field of Environmental conditions Improvement " in Gaza, funded by AusAID, World Vision-Australia.
10/2005-12/2005 , Palestinian Environment Quality Authority, Gaza	Project Supervisor , a project (Construction of Small Scale Plants for Grey Water Treatment) for the local communities in the rural areas in Gaza.
10/2004-3/2005 , United Nations for Refugees Relief and Work Agency	Trainee in the field of Environmental Impact Assessment
3/2004-9/2004 , School of Civil Engineering, Universiti Sains Malaysia.	Research Assistant , Projects (Water Treatment by using low cost materials & Air Quality

Talks Delivered-

- 24/09/2019: **Keynote Speaker** at The 3th EPI International Conference on Science and Engineering (EICSE) 2019. Organized by Engineering Faculty of Universitas Hasanuddin, Makassar- Indonesia.
- 19/09/2019: **Keynote Speaker, General Lecture** at Institut Teknologi Sumatera (ITERA), Lampung-Indonesia.
- 24/06/2018: **Guest Speaker** at the 18th Melaka International Youth Dialogue “Youth Engineering A Sustainable Urbanization”-Malaysia.
- 24/3/2016: ”Environmental Challenges and Socio-Economic Conditions in Gaza: A Livable Place?” at **Center for Middle Eastern Studies - Harvard University, USA.**
- 29/2/2016: ” Investigation of The Traffic Emission Trends and Assessment of Traffic Related Low Carbon Strategy in Penang. ” at **Urban Planning Department, Massachusetts Institute of Technology (MIT), USA.**
- 10/03/2015: ” Air Pollution and Sustainability in Palestine” at **Department of Civil Engineering, Indian Institute of Technology Delhi, New Delhi, INDIA.**

Fellowships and Awards

- **The Best Paper Award (2015)**, 2nd International Conference on Purity, Utility Reaction and Environmental Research- PURE2015, At Kuala Lumpur, Malaysia.
- **The Best Research Award (2014)**, Scientific Research Competition, Ministry of education, Gaza, Palestine.
- Selected as **Graduate Success story** by Universiti Sains Malaysia (2014 and 2016).
- **A Bronze Medal (2012)**, *Environmental Innovation Competition, Ministry of Youth and Sport, Gaza-Palestine.*
- **Universiti Sains Malaysia Fellowship (2008-2011).**
- **A Bronze Medal (2008)**, *Postgraduate Competition, International Conference on Construction and Building Technology 2008, Kuala Lumpur.*

Administrative duties:

- 11/2017- 6/2019: **Coordinator of “Outcome Based Education (OBE), Universiti Teknologi PETRONAS, Malaysia.**
- 12/2012- 8/2014: **External Affairs Officer** at IUG Gaza, Palestine.
- 9/2012- 8/2014: **Vice Chair of Environmental Science Department** at IUG Gaza, Palestine.
- 9/2012- 8/2014: **Postgraduate Studies Coordinator at the Environmental Science Department , IUG Gaza, Palestine.**

Training

- **Aug/2021: “Qualified Trainer In Civic Engagement And Social Innovation Initiatives And Business Models”** for 25 Youth Groups from Gaza, Palestine, A project Funded by UNICEF.
- 21/08/2019: Conducted Training on **“Air Quality Monitoring and Modelling”** for 20 MSc students from University Hasanudin, Indonesia, at Malaysia Japan International Institute of Technology, Kuala Lumpur, Malaysia.

Courses

- **Oct/2019:** Completed “**The Sustainable Development Goals- A global, Trans-disciplinary Vision of the Future**”, Conducted by **University of Copenhagen, Denmark** “MOOC”.
- **Jan/2019:** Completed “**Big Data and Environment**”, Conducted by **University of Reading and Institute for Environmental Analytics, UK** “MOOC”.
- **2/4/2016-17/4/2016,** “**Project Management**” at **Urban Planning Department, Massachusetts Institute of Technology, USA.**
- **10/02/2016-10/05/2016,** “**Negotiation and Dispute Resolution in the Public Sector**” at **Urban Planning Department, Massachusetts Institute of Technology, USA.**
- **19/4/2015,** One-day training on **Building and Leading Project Team, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia.**
- **15/05/07 - 5/06/07** Attended: 20 Hours course of "**Strategic Planning and Proposal Writing**" in the **The Association of Engineers - Gaza.**
- **11/02/07 - 17/02/07** Attended: 15 Hours course of "**Leadership and Supervisory Skills**" in the **The Association of Engineers - Gaza.**
- **17/09/06 - 20/09/06** Attended: 20 Hours course of "**Community Mobilization**" with **Hanan Project - Gaza.**
- **1/12/05 - 13/12/05** Attended: 12 Hours course of "**Time Management Strategies**" in the **The Association of Engineers - Gaza.**
- **17/03/05 - 04/04/05** Attended and Completed: 15 Hours course of "**Fundamental of Financial Management in the Contracting Sector**" in the **The Association of Engineers - Gaza.**
- **5/03/99 - 5/06/99** Attended and Completed 72 hour training course in Microsoft word/excel **In Al Ahly Computer Center.**
- **02/98 - 12/98** Attended and completed: 120 hour French language course (level 1, level 2, level 3) in **The French Cultural Center.**

Workshops and Seminars

- **29/12/03 - 31/12/03** Attended a workshop on **Research Design and Methodology** in **Universiti Sains Malaysia-USM.**
- **29/4/2004** Attended a workshop on **Technical Writing** in **Universiti Sains Malaysia-USM.**
- **7/5/2004** Attended a seminar on **Innovation and Technology Management** in **Universiti Sains Malaysia-USM.**
- **20/5/2004** Attended a workshop on **Occupational Safety and Health** in **Universiti Sains Malaysia-USM.**
- **10-12/9/2007** Attended Training Workshop on the **INEE Minimum Standards for Education in Emergencies, Chronic Crises and Early Reconstruction, Gaza.**
- **5/03/10 - 7/03/10** Attended: 20 Hours course of "**Sustainable Development**" in the **Universiti Sains Malaysia - Malaysia.**
- **23/6/2014** organize **International Seminar in Air Pollution Assessment and Sustainability,** jointly with **Universiti Sains Malaysia.**
- **21st – 22nd /4/2015** Attended the **2nd International Conference and Roundtable Discussion on Leadership (ICRIL 2015),** **Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia.**

- **Feb-May/2016**, participated in several workshops on Smart Cities, Sustainable Cities and Climate Change at MIT, Boston University, Tufts University and University of Massachusetts.
- **July/2017**, Passed a course on **Occupational Safety and Health** at University of Windsor-Canada.

Computer skills_ Modelling

- I have v.good experience using the following programs: SPSS, Minitab, Matlab, Screen-View, CalRoad-View and Positive Matrix Factorization (PMF) to model air pollutants trends.

Languages

- Arabic, English, Malay, Hebrew and know French.

Supervision

PhD

1. Field supervisor for Mr. Maher Al Bayumi- Collaboration with Universiti Sains Malaysia (**Completed**). 6/2014
 - Research Title: "Assessment Of Indoor Air Quality, Thermal Comfort And Health Symptoms In Naturally Ventilated Classrooms".
2. Co-Supervisor for Ms. Annisa Utami Rauf- Collaboration with University of Hasanuddin-Indonesia (**Ongoing**). 9/2019.
 - Research Title: "Prediction Model of heavy metal distribution and environmental health risk analysis around the cement industry in Maros Regency".
3. Co-Supervisor for Ms. Rtna Dwi Puji Astuti- Collaboration with University of Hasanuddin-Indonesia (**Ongoing**). 9/2019.
 - Research Title: "Risk impact model for heavy metal exposure in the coastal area of Pangkajene, South Sulawesi".

MSc

1. **Marwan Abu Hamda (Completed)**, 12/2013
 - Research Title: " Effect of Noise exposure on Blood Pressure and Pulse Rate of Employees in selected hospitals in Gaza Governorate- Palestine."
2. **Mosa'ab Mattar (Completed)**, 1/2014
 - Research Title: " Air Quality Impact Assessment of Gaza Power Plant"
3. **Khalil Al Khatib (Completed)**, 1/2014
 - Research Title: "Assessment of the Indoor Environment at IUG Gaza."
4. **Mohammad Al Khaldy (Completed)**, 1/2014
 - Research Title: " Relationship between Indoor Air Quality and Lower Respiratory Tract Infection among

Children at Middle Governorate of Gaza Strip, Palestine."

5. **Iyad Shamah (Completed)-5/2014**

- Research Title: " Assessment of Indoor Air Quality in the Neonatal Intensive Care Units at Government Hospitals in Gaza Governorates, Palestine".

6. **Rame Mokat. (Completed)-5/2014**

- Research Title: " Study of the Traffic Emissions and their Health Impacts in Gaza City".

7. **Mohammad Al Asttal (Completed)-6/2014**

- Research Title: " Assessment of The Random Housing at Khan Younis Refugees Camp and the Impact on Children Health ."

8. **Eman Abed (Completed)-11/2014**

- Research Title: "Assessment of Indoor Microbial Quality of Science Laboratories at Three Universities in Gaza City".

9. **Alaa' Al Zaza (Completed)-1/2015**

- Research Title: "Assessing Noise Pollution at West Gaza Education Directorate and Its Impact on Students Blood Pressure and Achievements".

10. **Suliman El Jabale (Completed)-5/2015**

- Research Title:"Effect of Exposure to Cement Dust on Pulmonary Function among Cement Plants Workers in The Middle Governorate, Gaza."

11. **Emad Salem (Completed)-6/2015**

- Research Title: " Effect of traffic emissions on respiratory system of nonsmoking Traffic Policemen at Northern Gaza Governorate – Palestine".

12. **Hesham Hassouna (Completed)-11/2016**

Research Title: " Evaluation of Noise Pollution and its Effect on Sleep of the Middle Governorate Population in Gaza Strip – Palestine"

Bsc-Final Year Project

1.Sharifah Al Hilo and Samar Al Khuzndar (Completed), 1/2014

- Research Title: "Assessment of Lead Pollution in Urban Roadside Environments of Gaza City".

2.Fatma Al Zagzog and Abeer Ismail (Completed), 1/2013

- Research Title: "Assessment of Traffic Emissions in the Urban Areas of Khan-Younis City, and Its Associated Impacts".

3.Mohammad Al Nounou and Osama Al Najjar (Completed), 1/2013

- Research Title: "Monitoring and Mitigation of air and noise pollution Emitted from marble industry in Gaza Strip".

4.Riham Mahmoud and Lamiaa' Shalaby (Completed), 6/2012

- Research Title: "Assessment of Traffic Noise and its Health Impacts at Several Locations in Gaza".

Examine the following Thesis:

- Assessment of the Application of Environmental Management Approach at Construction Industry in Gaza Strip. (MSc).
- Assessment of Particulate Matters Emitted from Gravel Crushers and their health Impacts at the Workers in The Middle Governorate at Gaza Strip. (MSc)
- Investigate the applicability of renewable energy in Gaza Strip.(FYP)
- Assessment of the regulatory system for radiations at Gaza Strip.(FYP)

Research Grants:

- Yayasan Universiti Teknologi Petronas Fund “140,000 RM”
Position: Project Leader
“Enhancement of microbial efficiency for Crude Oil Bio-Remediation in Contaminated Beach Water, Using Palm Oil Mill Effluent”
- Short Term Research Fund, Universiti Teknologi Petronas (20000 RM).
Position: Principle Investigator.
“ASSESSMENT OF THE HAZE IMPACTS ON WATER QUALITY”
- Joint Research Project with Prof Daniel James Cziczo from Massachusetts Institute of Technology- (20000 \$, Seed funding)
Position: Research Partner
“Investigating the Impacts of Particulate Matters on Cloud Formation”
- Research groups grant (10000 NIS), funded by the IUG Palestine.
Position: Principle Investigator.
“Assessment of air and noise pollution from various sources in Gaza”
- Innovative people grant (5000 NIS), funded by Arab Fund.
Position: Principle Investigator

Publications:

Citation No 505

h-index 11

Total Research Interest: 305.7

Books

- **Al Madhoun W A**, N.A. Ramli, A. S. Yahaya. (2011). Non Methane Hydrocarbons (NMHC's) Trends in Various Development Status in Malaysia. LAMBERT Academic Publishing, Germany.

International Journals

1. Syabiha Shith, Nor Azam Ramli, Muhammad Rizal Razman, Amni Umirah Mohamad Nazir, Nazatul Syadia Zainordin, and **Wesam Al Madhoun**. (2021) Procedural Effects of Environment Impact Assessment on Controlling Natural Disaster (Landslides and Flashflood) Based on

- Environmental Degradation from Development in Malaysia, *International Journal of Environmental Science and Development (IJESD)* 2021 Vol.12(9): 274-281 ISSN: 2010-0264.
2. Musbah M.F., Hustim M., **Al Madhoun W.** (2021) Assessing the Seasonal Variation of Particulate Matters Concentration in Perak, Malaysia. In: Mohammed B.S., Shafiq N., Rahman M. Kutty S., Mohamad H., Balogun AL. (eds) *ICCOEE2020. ICCOEE 2021. Lecture Notes in Civil Engineering*, vol 132. Springer, Singapore. https://doi.org/10.1007/978-981-33-6311-3_111
 3. Althuwaynee, O., A. Balogun, and **WA. Al Madhoun.** (2020). "Air Pollution Hazard Assessment Using Decision Tree Algorithms and Bivariate Probability Cluster Polar Function: Evaluating Inter-Correlation Clusters of PM10 and Other Air Pollutants." *GIScience and Remote Sensing* 57. doi:10.1080/15481603.2020.1712064.
 4. **WA Al Madhoun**, AA Firdaus, HA Isiyaka. (2019), Sustainable assessment of academic buildings at Universiti Teknologi Petronas campus, *IOP Conference Series: Earth and Environmental Science* 228 (1), 012021
 5. M Hustim, A El Zaza, **W Al Madhoun**, ZA Heen, SH Aly, MI Ramli. (2018)" Assessing Noise Pollution and its Impact on Student's Blood Pressure and Their Learning Performance in Palestine, *MATEC Web of Conferences* 203, 03008.
 6. **AlMadhoun, Wesam**, Rami Mokhat, Zeyad Abu Hein, M. Rashid, and Mohd Shahrul Mohd Nadzir. (2017). "Carbon Dioxide Emission from Traffic and Its Impact on Micro-Climatic Change in Gaza City, Palestine." *The International Journal of Climate Change: Impacts and Responses* 9 (2): 43-52. doi:10.18848/1835-7156/CGP/v09i02/43-52.
 7. **WA Al Madhoun**, RM Mokhat, ZHA Hein, M Isahak (2016). Assessment of Carbon Dioxide Emissions from Traffic and Its Health Impact in Gaza, Palestine, *Public Health Research*, *Public Health Research*, 6 (1). pp. 18-23.
 8. **Al Madhoun, W. A.**, Ramli, N. A., Yahaya, A. S., Rashid, M., (2016). Temporal Distribution of Non Methane Hydrocarbon (NMHC) in A Developing Equatorial Island. *Air Qual Atmos Hlth.* 9(3), 303–310..
 9. Aljeesh, Y. **Al Madhoun, W.** El Jabaly, S. (2015). Effect of Exposure to Cement Dust on Pulmonary Function among Cement Plants Workers in the Middle Governorate, Gaza, Palestine, *Public Health Research* 2015, 5(5): 129-134, DOI: 10.5923/j.phr.20150505.01
 10. Maher Elbayoumi, Nor Azam Ramli, Noor Faizah Fitri Md Yusof, **Wesam Al Madhoun.** (2015). Seasonal Variation in Schools' Indoor Air Environments and Health Symptoms among Students in an Eastern Mediterranean Climate. *Human and Ecological Risk Assessment: An International Journal*, 21(1), 184-204.
 11. Maher Elbayoumi, Nor Azam Ramli, Noor Faizah Fitri Md Yusof, **Wesam Al Madhoun.** (2014). The effect of seasonal variation on indoor and outdoor carbon monoxide concentrations in Eastern Mediterranean climate, *Atmospheric Pollution Research*, 5 (2), 315–324.
 12. Maher Elbayoumi, Nor Azam Ramli, Noor Faizah Fitri Md Yusof, Ahmad Shukri Bin Yahaya, **Wesam Al Madhoun**, Ahmed Zia Ul-Saufie. (2014), Multivariate methods for indoor PM₁₀ and PM_{2.5} modelling in naturally ventilated schools buildings, *Atmospheric Environment*, 94, 11-21.
 13. Maher Elbayoumi, Nor Azam Ramli, Noor Faizah Fitri Md Yusof, **Wesam Al Madhoun.** (2013). Spatial and seasonal variation of particulate matter (PM₁₀ and PM_{2.5}) in Middle Eastern classrooms, *Atmospheric Environment*, 80, 389–397.
 14. Maher Elbayoumi, Nor Azam Ramli, Noor Faizah Fitri Md Yusof, **Wesam Al Madhoun.** (2013). An Exposure Level of Fine Particulate Matter in Various Schools in Gaza Strip, Palestine, *International Journal of Environmental Protection*, 3 (12), 15-22..
 15. **Al Madhoun W A**, N.A. Ramli, A. S. Yahaya. (2012). Monitoring of TVOC and Benzene Emitted From Different Sources. *Journal of Engineering Science.* 8, 59-67.
 16. **Al Madhoun W A**, Ramli N A, Yahaya A S, Yusof N F, Ghazali N A, Sansuddin N, (2011). Levels of benzene concentrations emitted from motor vehicles in various sites in Nibong Tebal,

- Malaysia. *Air Qual Atmos Health*, 4(2), 103–109.
17. Nurulilyana Sansuddin, Nor Azam Ramli, Ahmad Shukri Yahaya, Noor Faizah Fitri Md Yusof · Nurul Adyani Ghazali, **Wesam al Madhoun**. (2011). Statistical analysis of PM10 concentrations at different locations in Malaysia, *Environmental Monitoring and Assessment*, 180 (1), 573–588.
 18. Noor Faizah Fitri Md Yusof · Nor Azam Ramli · Ahmad Shukri Yahaya · Nurulilyana Sansuddin · Nurul Adyani Ghazali, **Wesam al Madhoun**. (2010). Monsoonal Differences and Probability Distribution of PM10 Concentration. *Environmental Monitoring and Assessment*. 163 (1), 655–667.
 19. Nurul Adyani Ghazali, Nor Azam Ramli, Ahmad Shukri Yahaya, Noor Faizah Fitri Md Yusof, Nurulilyana Sansuddin, **Wesam Al Madhoun**. (2010). Transformation of Nitrogen Dioxide into Ozone and Prediction of Ozone Concentrations Using Multiple Linear Regression Technique. *Environmental Monitoring and Assessment*, 165 (1), 475–489.
 20. **W. A. Al Madhoun**, M.N. Adlan, N.A. Ramli, M.H. Isa, & M.R.Razman, (2004). Air Quality Issues in the Environmental Impact Statements. *Journal of Environmental Science, Mansoura, Egypt*. Vol,28.

Conferences

2019

- Eman Y. Abed, **Wesam A. Al Madhoun**, Abdelraouf A. Elmanama, Hyunook Kim, Xiaohong Xu and Faizah Che Ros (2019). Appraisal of indoor Microbial Pollutants at University Research Labs and Offices under Mediterranean Climate. *IOP Conf. Ser.: Mater. Sci. Eng.* **875** 012021, The 3rd EPI International Conference on Science and Engineering 2019 (EICSIE) 2019, Makassar, 24-25 Sept 2019.
- Nurul A. Mokhtar, **Wesam A. Al Madhoun**, Motasem Y. D. Alazaiza, Abdul-Lateef Balogun, Nasehir K. B. E. M. Yahaya and Faizah Che Ros (2019). Investigation of Air Pollution Impact on Kinta River Water Quality at a Tropical Region. *IOP Conf. Ser.: Mater. Sci. Eng.* **875** 012021, The 3rd EPI International Conference on Science and Engineering 2019 (EICSIE) 2019, Makassar, 24-25 Sept 2019.
- **Wesam A. Al Madhoun**, Emad Salem, Ashraf Eljadi, Hamza Ahmad Isiyaka and Faizah Che Ros (2019). Impact Assessment of Traffic Emission on The Respiratory System of Non-Smoking Traffic Policemen In Palestine. *IOP Conf. Ser.: Mater. Sci. Eng.* **875** 012021, The 3rd EPI International Conference on Science and Engineering 2019 (EICSIE) 2019, Makassar, 24-25 Sept 2019.

2018

- **Wesam A. Al Madhoun**, Mohammad Khaled, Ashraf Eljedi· Hyunook Kim· Mohd Shahrul Mohd Nadzir⁴, Abdul-Lateef Balogun, (2018), Review: Indoor Air Quality and the Risk of Lower Respiratory Tract Infection, Proceedings of the 1st International Conference on Engineering and Future Technology(ICEFT-2018), February 24-25, 2018, University of Palestine, Gaza, Palestine.

2017

- **Al Madhoun, W. A.** Abed, Eman Y. , Elmanama, Abdelraouf A. , Kim, Hyunook , Xu, Xiaohong (2017). Assessment of Indoor Microbial Environment of Labs and Faculty Offices at a University in Gaza, Palestine. Proceedings of International Exchange and Innovation Conference on

Engineering & Sciences (IEICES) 3pp.11 - 14 , 2017-10-19 , Interdisciplinary Graduate School of Engineering Sciences, Kyushu University.

- **WA, Al Madhoun** , MH, Abu Hamda , YI, Al Jeesh , Kim, Hyunook , GM, Hosang. (2017). Assessment of Noise Exposure Impacts on Blood Pressure and Pulse Rate at Intensive Care Units in Gaza Strip-Palestine. Proceedings of International Exchange and Innovation Conference on Engineering & Sciences (IEICES) 3pp.79 - 84 , 2017-10-19 , Interdisciplinary Graduate School of Engineering Sciences, Kyushu University

2015

- **Al Madhoun, W. A.** Matar, M. M.Abu Heen, Z. H. Rashid, M.(2015). Assessment of Power Plant Emission and Its Health Impacts in Gaza, 2nd International Conference on Purity, Utility Reaction and Environmental Research- PURE2015,Kuala Lumpur, Malaysia.

2014

- **Al Madhoun, W. A.** Rashid, M. (2014). An Overview on the Mutual Relationship between Forests and Air Pollution - Gain and Loss. National Conference Royal Belum (NCRB), Gerik Perak, Malaysia.
- **Al Madhoun, W. A.** Rashid, M. EL-Khuzundar, S. EL-Helou, S. (2014). Assessment of Lead Pollution in Urban Roadside Environment of Gaza City. Proceeding of the Fifth International Conference on Engineering Sustainability, Gaza, Palestine.
- **Khalil M El Khateeb, Zeyad H Abu Heen, and Wesam Al Madhoun.** (2014). Determining Levels of Carbon Dioxide, Carbon Monoxide And Thermal Comfort Inside IUG Offices And Its Effect on The Employees, Proceeding of the Fifth International Conference on Engineering Sustainability, Gaza, Palestine.

2013

- **Wesam Al Madhoun,** Mohammad Al Nounou, Mohammd Shabat, Zeyad Abu Hein, Samir Hararah. (2013). Health and Environmental Impacts of Marble Industry in Gaza, Palestine, The International Symposium of Health Sciences 2013, Malaysia.
- **Wesam Al Madhoun,** Samir Hararah, Nor Azam Ramli ,Riham Mahmoud, Lamia Shalaby. (2013). Monitoring and Modelling of Traffic Noise at Several Sites in Gaza City. The International Conference on Environmental Science and Technology, Turkey.

2010

- **W. A. Al Madhoun,** N.A. Ramli, A. S.Yahia, (2010). " Roadside BTEX emissions in different Developing countries ". *Proceeding of 3rd International Conference on Engineering and Gaza Reconstruction*, IUG, Gaza, Palestine.
- **W. A. Al Madhoun,** N.A. Ramli, A. S.Yahia. (2010). " Concentrations of BTEX in the Central Business Area in Penang ". *Proceeding of 2nd International Conference on Human Habitat and Environment*, Nilai, Malaysia.

2009

- **W. A. Al Madhoun,** N.A. Ramli, A. S.Yahia, N. F. Yousef, N. A. Ghazli & N. Sansuddin. (2009). " A proposed Framework for Measuring and Modeling of BTEX in Various Developing Cities". Proceeding of The 3rd International Conference on Science and Development, IUG, Gaza,

Palestine.

- **W. A. Al Madhoun**, N.A. Ramli, A. S.Yahia. (2009). Monitoring of TVOC and Benzene Emitted From Different Sources. Proceeding of the 5th National Conference of Civil Engineering (AWAM09), Kuala Lumpur, Malaysia.
- N.A. Ramli, **W. A. Al Madhoun**, A. S.Yahia . (2009)" Monitoring of Benzene Concentrations Within Indoor Environment of Cars. The second International Seminar, Ecology, Human Habitat and Environmental Change, Nilai, Malaysia.
- **W. A. Al Madhoun**, N.A. Ramli, A. S.Yahia. (2009). Monitoring Of Benzene Emitted From Traffic Vehicles. Symposium of USM Fellowship Holder. USM, Penang, Malaysia.

2008

- **W.A. Al Madhoun**, N.A. Ramli, A. S.Yahaya, N. F. Yusof, N. A. Ghazali & N. Sansuddin. (2008). A Framework for Monitoring and Modelling of BTEX in Various Development Statuses in Penang, Malaysia. *Proceeding of The International Conference on Environment 2008 (ICENV08) in Penang, MALAYSIA.*
- N.A. Ghazali, N.A. Ramli, A. S.Yahaya, N. F. Yusof, N. Sansuddin, & **W.A. Al Madhoun**. (2008). Regression Modelling and Temporal Analysis of Hourly Ozone Concentrations in Urban Environment of Malaysia. *Proceeding of The International Conference on Human Habitat 2008 in Bangi, Selangor, Malaysia.*
- **W.A. Al Madhoun**, N.A. Ramli, A. S.Yahia, N. F. Yousef, N. A. Ghazli & N. Sansuddin. (2008). A Review on Practice of Air Quality Issues in the Environmental Impact Assessment Reports of Development Projects in Malaysia. *Proceeding of The International Conference on Construction and Building Technology (ICCBT08) in Kuala Lumpur, MALAYSIA.*
- N. A. Ghazli, N.A. Ramli, A. S.Yahia, N. F. Yousef, N. Sansuddin, & **W. A. Al Madhoun**. (2008). Temporal Analysis and Prediction of Ozone Concentrations in Gombak, Selangor. *Proceeding of The International Conference on Construction and Building Technology (ICCBT 08) in Kuala Lumpur, MALAYSIA.*
- N. F. Yusof, N. A. Ghazali, N.A. Ramli, A. S.Yahaya, N. Sansuddin, & **W.A. Al Madhoun**. (2008). Correlation of PM10 Concentration and Weather Parameters in Conjunction with Haze Event in Seberang Perai, Penang. *Proceeding of The International Conference on Construction and Building Technology 2008 (ICCBT08) in Kuala Lumpur, Malaysia.*
- N.A. Ramli, N. A. Ghazli, A. S.Yahia, N. F. Yousef, N. Sansuddin, & **W. A. Al Madhoun**. (2008). Profile of Transformation of Nitrogen Dioxide to Ozone in Shah Alam , Selangor.. *Proceeding of The International Conference on CIVIL Engineering, Pahang, MALAYSIA.*
- N.A. Ramli, N. F. Yusof, A.S. Yahaya, N.A. Ghazali, N. Sansuddin, & **W.A. Al Madhoun**. (2008). Analysis of High Particulate Matter (PM₁₀) Event in Kuantan from 1997 to 2005. *Proceeding of The International Conference on Civil Engineering 2008 (ICCE08) in Pahang, Malaysia.*

2005

- **W. A. Al Madhoun**, M. Hasnain Isa, N.A. Ramli, M. N. Adlan, B. H. Hameed & I.H. Farooqi, (2005). Cu and Zn Removal By Adsorption Using Ash from Palm Oil Factory. *Proceeding of the International Conference on Water: Rights and Values, Ramllah, Palestine.*
- **W. A. Al Madhoun**, Steward, A. Jabiang, M. Hasnain Isa, Faridah A. H. Assari, Hamidi A. Aziz & I.H. Farooqi, (2005). Co-Composting of Palm Oil Wastewater Sludge and Biosolids. *Proceeding of the International Conference on Water: Rights and Values, Ramllah, Palestine.*

2004

- M.H.Isa, **W. A. Al Madhoun**, A.A.Hamidi, F.A.H.Asaari & N.H.M. Sabiani (2004). Fe Removal By Using Ash From Oil Palm Factory. *Proceeding of the Third National Conference of Civil Engineering (AWAM 2004), Pulau Pinang, Malaysia.*

- N.A. Ramli, & **W. A. Al Madhoun**, (2004). Integration of Environmental Impact Assessment in The project Life Cycle. Proceeding of the *Third National Conference of Civil Engineering (AWAM 2004)*, Pulau Pinang, Malaysia.
- N.A. Ramli, **W. A. Al Madhoun**, M.H. Isa, & M.N. Adlan, (2004). Air Quality Issues in the Environmental Impact Statements of development Projects. *Proceeding of 13th World Clean Air and Environmental Protection Congress and Exhibition*, London, United Kingdom.
- **W. A. Al Madhoun**, M.N. Adlan, N.A. Ramli, M.H. Isa, & M.R.Razman, (2004). Air Quality Issues in the Environmental Impact Statements. *Proceeding of the Second Annual International Conference on the Environment And Health Safety, Mansoura, Egypt*.
- **W. A. Al Madhoun**, & N.A. Ramli, (2004). Review of Air Quality Issues in the Environmental Impact Assessment Reports of Housing Projects. *Proceeding of the Second Bangi world Conference on Environmental Management, Bangi, Selangor, Malaysia*.
- **W. A. Al Madhoun**, & N.A. Ramli, (2004). Coverage of Air Quality Issues in the Environmental Impact Assessment Reports of Agricultural Projects. *Proceeding of the Third International Conference on Environment Safety and Loss Prevention, Kuwait City, Kuwait*.

Oral Presentations

- **W. A. Al Madhoun**, N.A. Ramli, A. S. Yahia, N. F. Yousef, N. A. Ghazli & N. Sansuddin. (2008). " Conceptual Paper: Measuring and Modeling of BTEX in Various Development Sites in Penang, Malaysia". *International Forum for Junior Civil Engineers, Jakarta*.
- **W. A. Al Madhoun**, & N.A. Ramli, (2004). Review of Air Quality Issues in the Environmental Impact Assessment Reports of Housing Projects. *Second Bangi world Conference on Environmental Management, Bangi, Selangor, Malaysia*.
- **W. A. Al Madhoun**, N.A. Ramli, M.H. Isa, & M.N. Adlan, (2004). Air Quality Impact Assessment. Graduate Seminar in the School of Civil Engineering, Universiti Sains Malaysia, Penang, Malaysia.
- **W. A. Al Madhoun**, & N.A. Ramli, (2004). Air Emission Quantification in Malaysia. Graduate Seminar in the School of Civil Engineering, Universiti Sains Malaysia, Penang, Malaysia.

Activities and Membership

- **External Reviewer-Asia-Pacific Network for Global Change Research:**
External Review of Capacity Building Proposals.
- **External Reviewer-UN Environment:**
External Review of "Atmospheric Pollution in the Asia Pacific: Science-based Solutions " Report.
- **Member at the Board of Director at "Unforgotten":International NGO-US Based.**
<http://unforgotten.org/>
- **Advisor for GEN Tec Sdn Bhd Brunei.** (2016 to Present)
- **Research Affiliate at MIT - UTM Malaysia Sustainable Cities Program, MIT, USA.** (2016-Present)
- **A member of Board of Engineers Malaysia.**
- **Technical Reviewer** for The 10th **Asia Pacific Conference** on Sustainable Energy & Environmental Technologies, organized by University of Seoul, South Korea. (2015).
- **Advisor** for the **Arab Youth Movement for Climate Change**-Palestine Chapter. (2012 to 2014)
- **I** was selected to be **International Ambassador for Universiti Teknologi Malaysia.**(2015)
- **I** was selected to attend an **International Program on Climate Change Leadership**, New Delhi, India. (2015) and in Washington (2017).
- **A member** of the organizing committee of 1st ICRIL-International Conference on Innovation in Science and Tecknology (IICIST 2015), held at Universiti Teknologi Malaysia (April 2015).

- A **member** of the organizing committee of Fifth International Conference on Engineering and Sustainability, held jointly between IUG Gaza and Universiti Sains Malaysia (Dec 2014).
- A **member** of the organizing committee of Fifth International Conference on Science and Development, held jointly between IUG Gaza and Universiti Sains Islam Malaysia (Feb 2014).
- **Reviewer** for the Journals of Atmospheric Environment, Ecology and Natural Environment, Water Science and Technology, Journal of Engineering Science & Technology.
- **Postgraduate Student Advisor**, Civil Engineering School, USM, "2009-2010".
- A **President** of the Association of Civil Engineering Postgraduate and Research officers (ACEPRO), Civil Engineering School, USM, "2008/2009".
- A **member** in the Association of Engineers- Gaza, Palestine.(2005)

References:

- **Prof. Dr. Nor Azam Ramli**, (my PhD Supervisor), Universiti Sains Malaysia.
Email: ceazam@usm.my
- **Prof. Lawrence Susskind**, Massachusetts Institute of Technology, Email: susskind@mit.edu
- **Prof Dr Farid Al Qeeq**, Gaza University President, Palestine.
Email: f.alqeeq@gu.edu.ps
- **Prof. Dr. Mohd Hamdan Bin Haji Ahmad**, Universiti Teknologi Malaysia, Email: b-hamdan@utm.my
- **Prof. Dr. Mohd Rashid Mohd Yosuf** . Professor at Malaysia-Japan International Institute of Technology (MJIT), Malaysia.
Email: drashid@ic.utm.my