





#### Under the patronage of

#### Dr. Saud Al-Harbi

Minister of Education and Higher Education

## 1st International Conference on Applications of Air Quality in Science and Engineering ICAAQSE 2020

**Scientific Program** 

February 10-12, 2020 Kuwait



### Day 1: Monday

#### **February 10, 2020**

08:00 - 09:00	Registration Desk Open at the Conference Venue	
09:00 - 09:30	Welcome and Opening of the Conference	
09:30 – 09:50	Global Roadmap for Addressing Health Impacts of Air Pollution: Status in the Eastern Mediterranean Region, <i>Mazen Malkawi</i> , WHO	
9:50 - 10:30	Exhibition Inauguration	
10.20 11.22	Keynote Speaker: Professor Roy Harrison, University of Birmingham, UK	
10:30 – 11:30	Urban Air Quality: Current Threats and Oppo	ortunities
Session 1	Session 1A	Session 1B
	Chair: Prof. Magdy Abdel Wahab	Chair: Prof. Ian Colback
11:40- 12:00	Source Apportionment of Particulate Matter Using PMF Receptor Model and HYSPLIT Model in an Industrialized Rural Area in South Africa, Cheledi Tshehla, George Djolov	Indoor and Outdoor Characteristics of Particulate Matter over Al-Jubail and Ras Tanura Industrial Cities, Kingdom of Saudi Arabia: Space-Borne and Ground-Based Approach, <i>Ashraf Farahat</i>
12:00 - 12:20	Real-Time Air Dispersion and Accidental Release Modeling: Its Advantages, Challenges, and Applications, <i>Brian et al</i> .	Measurements of Air Pollutants by Use of LIDAR, In-Situ Measurements and Satellite Data over Tehran, Iran, <i>Hossein A</i> .
12:20 - 12:40	CFD Modelling of Air Pollution within an Inner City Built Environment, <i>Martinm</i> et al.	Ambient Air Quality of Çanakkale, Turkey, Burak Selcuk, Sibel Mentese
12:40 - 01:00	Application of CALINE4 Model for Analysis of Air Pollution at a School Parking Lot, <i>Eitidal Al-Bassam</i>	Monitoring Air Quality in Tajikistan , Sabour et al.
01:00 - 02:00	Prayer/Lunch Break	
	Session 2A	Session 2B
Session 2	<b>Chair:</b> Dr. Ashraf Ramadan and Prof. Mohamed F. Yassin	Chair: Dr. Sibel Mentese
02:00 – 02:20	Predicting Benzene Concentration Levels from Statistical Data of other Air Pollutants by Multiple Regression Analysis, <i>Negah et al.</i>	Air Quality and Its Impact on Indoor and Outdoor Archaeological Sites Luxor Museum (Egypt) and Amman Castle (Jordan) as Case Studies, <i>Mohamed A. El-Gohary</i>

Organically Coated Galvanised Architectural Steel, Khalil Khan, James Sullivan  Tee/Coffee Break and Poster Session  Session 3  Chair: Prof. Ahmed Taheri  O4:00 – 04:20  Analysis of a Dense Haze Event over North-Eastern Pakistan Using WRF-Chem Model and Remote Sensing, Muhammad Zeeshaan Shahid  O4:20 – 04:40  Mapping Air Quality and Environmental Drivers over Cairo and Rural Areas Using Numerical Modelling and Remote Sensing Techniques, Islam et al.  O4:40 – 05:00  How Land Use Change Can Improve Air  O4:00 – 04:00  Tee/Coffee Break and Poster Session  Session 3B  Chair: Dr. Muferh Al-Rashidi  Temporal Variations of Organic Air Pollutant Compositions on Busy Roads of Canakkale, Turkey, Sibel Mentese, Bahar Akca  A Comparative Study on the Traffic-Related Differences on the Indoor and Outdoor Levels of Volatile Organic Compounds in Office Buildings at Urban Areas in Kuwait, Al-Khulaifi et al.  O4:40 – 05:00  How Land Use Change Can Improve Air  Assessment of Air Pollutants Emissions Due			
Iron Particles, Mahad et al.   Source Strength During Domestic Activities, Ian et al.	02:20 - 02:40		_ •
AERMOD Modeling System, Tiffany et al.  03:20 – 03:40 Numerical Modelling of Zinc Runoff from Organically Coated Galvanised Architectural Steel, Khalil Khan, James Sullivan  03:40 – 04:00  Tee/Coffee Break and Poster Session  Session 3  Chair: Prof. Ahmed Taheri  04:00 – 04:20 Analysis of a Dense Haze Event over North-Eastern Pakistan Using WRF-Chem Model and Remote Sensing, Muhammad Zeeshaan Shahid  04:20 – 04:40 Mapping Air Quality and Environmental Drivers over Cairo and Rural Areas Using Numerical Modelling and Remote Sensing Techniques, Islam et al.  04:40 – 05:00 How Land Use Change Can Improve Air Quality Status over Kuwait City, Zeinab et al.  05:00 – 05:20 Examining Factor Influenced and Variable Interaction of Particulate Matter (PM <sub>10</sub> ) Concentrations in a Moving Vehicles: Case Study in Peninsular Malaysia, Noor et al.  05:20 – 05:40 Estimating Emissions from the Power Generation and Water Desalination Sector in the State of Kuwait, Ramadan A.	02:40 - 03:00	1 8	Source Strength During Domestic Activities,
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Generation and Water Desalination Sector in the State of Kuwait, <i>Ramadan A</i> .  Perspective, <i>Alaa Hassan</i>	05:00 – 05:20	Interaction of Particulate Matter (PM <sub>10</sub> ) Concentrations in a Moving Vehicles: Case	around Municipal Solid Waste Incinerators: Results from Air Quality Monitoring
05:40 End of the Sessions	05:20 – 05:40	Generation and Water Desalination Sector in	
	05:40	End of the Sessions	

### Day 2: Tuesday

#### **February 11, 2020**

08:00 – 08:30	Registration Desk Open at the Conference Venue	
08:30 - 09:30	<b>Keynote Speaker</b> : Professor <i>Lee Heekawn</i> , Incheon National University, Korea	
	Urban Air Pollution and Management	
09:30 - 10:30	Keynote Speaker: Professor Ana Isabel Miranda, Universidade de Aveiro, Portugal	
09.30 - 10.30	Air Quality and Climate Resilient Cities: A Mo-	delling Approach
10:30 - 10:50	Tee/Coffee Break and Poster Session	
Session 4	Session 4A	Session 4B
Session 4	Chair: Prof. Islam Abou El-Magd	Chair: Dr. Abdulla Sattar Shady
10:50 - 11:10	Spatial and Seasonal Variations of the Particulate Matter: Case study: Riyadh City, Saudi Arabia, Adel Mohamed Ghoneim, Abdullah Modaihsh	Estimation of Secondary Aerosols Formation Through Photochemical Reactions, Case Study: Tehran, <i>Amir et al</i> .
11:10 - 11:30	Some Peculiarities of Air Pollution in Urban Locations and the Ways of Its Prevention, <i>Abduali Toirov</i>	Indoor CO <sub>2</sub> Concentration Levels in Several Schools in Kuwait, <i>Al-Awadi et al</i> .
11:30 - 11:50	Spatiotemporal Variation of Brick Kilns and Its Relation to Ground-Level PM <sub>2.5</sub> through MODIS Image at Dhaka District, Bangladesh, <i>Abdullah Al Nayeem</i>	Wet Deposition as an Applied Approach for Studying Aerosols: Case Study for Lake Urmia Basin/NW Iran, <i>Hesam et al</i> .
11:50 - 12:10	Exposure Assessment of Ambient Particulate Matter on Roads of Lahore, Pakistan, <i>Zulfiqar et al</i> .	Analysis of Aerosol Particles Between the Years 2003 and 2018 in the Middle East with a Focus on Kuwait, <i>Cihan et al</i> .
12:10 - 12:30	PAHs and Elemental Compositions of Particulate Matter Retained on Air Condition Unit's Filters, <i>Mahfouz et al</i> .	Effect of Atmospheric Aerosol on Ozone Concentration over Zanjan, Iran, <i>Gharibzadeh</i> et al.
12:30 - 1:40	Prayer/Lunch Break	
Session 5	Session 5A	Session 5B
	Chair: Dr. Ali Al-Hamoud	Chair: Dr. Martin Jaege
01:40 - 02:00	Particulate Matter Pollution Studies in the UAE, <i>Hamdan et al</i> .	Possible Survival of Bioaerosols in the Atmosphere: Pollutants as Contributing Factors, <i>Noda et al</i> .

02:00 – 02:20	Particulate Matter Influence Areas in Oil Fields Unpaved Roads, Villa et al.	Evaluation of Seasonal and Spatial Variation for Microbial Contents in Falling Dust in Riyadh City Falling, <i>Samir Radwan</i>
02:20 – 02:40	Atmospheric Concentrations and Possible Sources of Black Carbon and Other Light Absorbing Aerosols in the Arabian Gulf Region, <i>Alfoldy et al</i> .	Microbial Pollution of Indoor Air in Riyadh City Government Schools, <i>Reda Abdel-Aziz</i> <i>Khaled</i> , <i>Al-Amary</i>
02:40 - 03:00	Particulate Matter Concentration in a Vehicle Cabin Driven in the City of Kuwait, <i>Shalash et al</i> .	Plasmonic Dipole Antenna for Graphene Reconfigurable Gas Sensing and Environment Monitoring, <i>Malhat et al</i> .
03:00 - 03:20	Spatiotemporal Variations of Six Criteria Air Pollutants and Influencing Factors in the State of Kuwait for the Biennium 2016-2017, Mariam J. Malek, A. Al–Dabbous	Polluted Air by Pollen Grains and Fungal Spores as Causes of Allergy, Wafaa K. Taia, Eman Bassioni
03:20 - 03:40	Tee/Coffee Break and Poster Session	
	Session 6A	Session 6B
Session 6	<b>Chair:</b> Dr. Abdul Rahman Khan and Layla Al-Awadi	Chair: Prof. Turki Habeebullah
03:40 – 04:00	Trend and Seasonal Variation in Atmospheric Pollution and Air Quality in Malaysia Revealed Through Seventeen Years Metadata Analysis, <i>Akbar John et al</i> .	Vegetation to Improve Urban Air Quality,  Mohamed Esmat Hamed ElAttar
04:00 – 04:20	Effectiveness of Vehicle Free Zone in Reducing Air Pollution, <i>Jasmita Khadgi et al</i> .	Determination of Radioactivity Levels and Associated Risks Factors Due to Diverse Medium around a Phosphate Fertilizer Plant, <i>Bajoga et al.</i>
04:20 – 04:40	The Correlation Between Black Carbon Aerosol and CO, and Tropospheric Ozone in Tehran, <i>Miraj</i> , et al.	Assessment of Traffic Noise Pollution in the State of Kuwait, Mariam Al-Delmani, Ashraf Ramadan
04:40 – 05:00	Climate Change and Its Impact on Desertification in Iraq, Qusay Fadel Abdul	Air Pollution Caused by Stone and Marble Industry in Palestine and Its Impacts on Health, <i>Hilmi S.S.</i>
05:00	End of Sessions	
05:30 - 07:30	Visit the Mubarakiya Market (there will be a bus service)	
07:30	Banquet Dinner	

# Day 3: Wednesday February 12, 2020

8:30 - 9:30	<b>Keynote Speaker:</b> Professor <i>Petros Koutrakis</i> , Harvard T.H. Chan School of Public Health, USA	
	Air quality and Health in Kuwait: Lessons and Future Direction	
Session 7	Session 7A	Session 7B
	Chair: Prof. Mustafa Selim	Chair: Prof. Ibrahim Hassan
9:40 - 10:00	Effect of the Atmospheric Particulate Matter on Respiratory Disease During Hajj Season, Turki M. A. Habeebullah, Omar B. Ahmed	Aerosol Optical Depth over the Arabian Peninsula: Validation of ECHAM5-HAM Against Ground-Based and Satellite Data , <i>Al</i> <i>Zawad1 et al</i> .
10:00 - 10:40	Climate Change and Health in Kuwait: Hot Temperatures and Mortality, <i>Barrak Alahmad</i> , <i>Petros Koutrakis</i>	Native Vegetation Change Influence on Microclimate, Air quality and Economy, <i>Al-Dousaril et al</i> .
10:40 - 11:00	Risk of Low Birth Weight and Very Low Birth Weight from Exposure to Particulate Matter (PM <sub>2.5</sub> ) Speciation Metals During Pregnancy, <i>Janvier et al</i> .	Model-Based System for Analysing Wind Erosion Risk in Turkey, Kenan Ince, <i>Kucumen et al</i> .
11:00 - 11:20	Tee/Coffee Break and Poster Session	
Session 8	Session 8A	Session 8B
	Chair: Prof. Janvier Gasana	Chair: Dr. Ali Al-Dousari
11:20 - 11:40	Bibliometric Analysis of Health Impacts of Air Pollution in Eastern Mediterranean Countries, <i>Heba Safi</i>	The Conceptual Framework of the Air in the Qur'an for Application to Science and Engineering, <i>Nurdeng Deuraseh</i>
11:40 - 12:00	Air Pollution Assessment in Fuel Stations and Its Impact on Workers' Health: A Case Study from Saudi Arabia, <i>Hassan et al</i> .	Aerosol Optical Thickness of Particulate Matter over Eastern Part of Saudi Arabia and Bahrain from 2008 to 2019: Speciation, Variability, and Distributions, <i>Jasim et al</i> .
12:00 - 12:20	High-PM <sub>10</sub> Concentrations and Respiratory Diseases in Canakkale, Turkey, <i>Baltaci et al</i> .	Dust Storm Forecasting in Qatar and the Greater Arabian Peninsula, <i>Fountoukis</i> , et al.
12:20 - 12:40	Urban Aerosols Exposure and Regional Inhaled Deposited Dose Assessment in Eastern Mediterranean Conditions, <i>Hussein et al</i> .	Combined Application of Numerical Modelling and Satellite Observation in the Study of a Multi-Aspect Storm over West Asia, <i>Nikfal et al</i> .

12:40 - 1:00	Significance of Aerosolized Particle Size	Synoptic Comparison Analysis of Two Spring
	Distribution and Composition on the Level of	Massive Sand/Dust Storms in Iraq, Saadiyah
	Exposure to Hazardous Chemicals, Mustafa I. Selim	H. Halos, Salah Mahdi
01:00 - 02:00	Prayer / Lunch Break	
Session 9	Session 9A	Session 9B
	Chair: Prof. Tareq Hassan	Chair: Dr. Christos Fountoukis
2:00 - 2:20	Brick Kiln Workers Air Pollution Exposure Assessment: A Case Study From Nepal, <i>Parth</i> <i>S.M. et al</i> .	Determining the Role of Maharloo Lake in Air Pollution Using Dust Collector LVS1- Micro PNS (Iran), <i>Kazemi et al</i> .
2:20 – 2:40	Ambient PM <sub>2.5</sub> Aluminum and Elemental Carbon and Placental Abruption Morbidity, <i>Janvier Gasana et al.</i>	High Efficiency Performance of Quartz Fibers for Filtering Soot Aerosols, <i>Amini et al</i> .
2:40 – 3:00	Spatiotemporal Variations and Health Impact of PM <sub>2.5</sub> , PM <sub>10</sub> , O <sub>3</sub> and NO <sub>2</sub> Exposures in Kuwait, <i>Ali Al-Hemoud</i>	More Than a Decade of Observations of Dust Properties near Source and Transport Regions in the Vicinity of Kuwait City Using Nasa's Calipso Satellite Measurements, <i>Omer et al.</i>
3:00 – 3:20	Respiratory and Cardiovascular Effects of Ambient Particulate Matter from Dust Storm and Non-Dust Storms Periods in Kuwait, <i>Al-Khulaifi1 et al</i> .	Contrasting Wind Regimes (Shamal vs Monsoon) for Dust Transport over South Iran, Alireza Rashki, Dimitris Kaskaoutis
3:20 – 3:40	Chromosomal Damage and Respiratory Health Status Among Urban Workers Exposed to Traffic-Related Air Pollution (Trap) in Klang Valley Area, <i>Awang et al</i> .	EMME-CARE: The New Center of Excellence on Climate & Atmosphere Research in the Eastern Mediterranean- Middle East, <i>Jean Sciare et al</i> .
3:40 – 4:00	Health Risks Associated with PM <sub>2.5</sub> Concentration in Abidjan Hospital, Côte d'Ivoire, <i>Kouadio et al</i> .	Study of the Air Pollution in Brick Factories in Al-Nahrawan City and their Effects on the Workers, <i>Maitham A. Sultan</i> , <i>Jalal N. Hussian</i>
4:00 – 4:20	Ecological and Human Health Risk from Trace Metals in Roadside Soil and Road Dust of Major Industrial Locations of Delhi, India, <i>Zainab et al</i> .	Dust Storms in Southern Iraq and their Environmental Impacts, Sarhan Al-Khafaji
4:20	End of the Conference	

#### Poster Presention

ID	Title
P-1	Solar Towers for a Better Air Quality in Urban Areas: Analysis of Performances, Fabio Murena
P-2	Characterization of PM <sub>2.5</sub> in Relation to Meteorological Characteristics in Dhaka City, Bangladesh, <i>Ahmad Kamruzzaman Majumder</i>
P-3	A Novel Approach to Improve the Air Quality of Hospitals in the Arabian Penninsula , <i>Kamel Hooman, Farhad Sabri</i>
P-4	A comparative Study of the Levels of Pollution and Human Risk Assessment in Cairo Using Satellite Information, <i>Ibrahim H.</i> , <i>Abdel Wahab M</i> .
P-5	Evaluation of the Cold Start Phenomena and Its Effect on Air Quality Based on Monitored Data in Tehran, <i>Akbar et al</i> .
P-6	The Effect of Different Courtyard Ratios in University Buildings on the CO <sub>2</sub> Concentration in Upper Egypt During the Hot Period: New Sohag University as a Case Study, <i>Amr et al</i> .
P-7	Health Risk Assessment in Schoolchildren Exposed to Dust Heavy Metals in Jeddah City, Saudi Arabia, <i>Alghamdi et al</i> .
P-8	Analysis of Air Pollutants at Extreme Pressure Values in İstanbul, Turkey, Emrah Tuncay Özdemir
P-9	High Time Resolution Measurement of TC, BC, EC, OC and OM in PM <sub>1</sub> and PM <sub>2.5</sub> , Rigler et al.
P-10	Development of Spatiotemporal Black Carbon Emissions Inventory of Pakistan, Imran Shahid
P-11	Emissions Management and Ambient Air Quality Monitoring in Upstream Oil and Gas Sectors - Highlights of KOC's Air Compliance Management Program (ACMP) as an International Best Practice, <i>Zainab Hussain et al</i> .
P-12	Long-Term Measurements of Toluene and NO <sub>2</sub> at Some Locations in Kuwait , <i>Maryam Shehab</i> , <i>Amjad Moinuddin</i>