

6th Global summit on Climate Change

November 19-20, 2018 Paris, France

Pollution control–indoor and outdoor pollution correlation indices of key pollutants in three different exposure areas of Lagos, Nigeria – a megacity in a hurry



Babatunde Odesanya
Caleb University, Nigeria

Climate change is a major consideration and the United Nations (UN) has many agreements and conventions in place to abate/mitigate its attendant effects. The main causative factor for climate change is the depletion of the ozone layer due to gaseous emissions which, in turn, leads to consequent events resulting in the phenomenon of climate change. It has also been established that increases in gaseous pollutants like total suspended particulate matter (TSP), Particulate matter ($PM_{2.5}$, $PM_{10.0}$), nitrogen oxides (NO_x) and sulphur dioxide (SO_2) could have significant effects on human health. This study sought to establish hitherto unavailable relationships between indoor and ambient levels of $PM_{2.5}$, $PM_{10.0}$, and NO_x in three diverse areas of a rapidly expanding megacity (Lagos) with a view to comparing the results with those from other climes and initiating measures of control. NO_x has also been implicated in ozone formation hence its control can be critical especially when it is an unseen killer at high levels. This would obviously reduce their effects on the climate. Attempts were also made to establish the relationship between the results and local weather indices like temperature and humidity. Studies are still ongoing in a bid to use the results to formulate an indigenous policy approach that governments in the country can use to protect its citizens.

Biography

Babatunde Odesanya completed his PhD from Strathclyde University, Glasgow in Applied Sciences. He has worked extensively in the Pharmaceutical, Food and Chemical Industries and presently lectures and stimulates impactful research at Caleb University, Imota, Nigeria. He is a Researcher in the Analytical/Environmental area with special focus on pollution to water and air which are key indices of Climate change. He has over 25 publications in reputable journals and is a certified lead auditor in ISO 9001:2015 and 14001:2015 Quality Management Systems.

tunde.odes@gmail.com

Notes: