

## Profile of Dr. Mukesh Khare

Dr. Mukesh Khare is Professor in the Department of Civil Engineering at Indian Institute of Technology Delhi, India. Professor Khare received his PhD in Faculty of Engineering (Specialized in Air Quality) from the University of Newcastle Upon Tyne, Upon Tyne, UK in 1989. He has published to date more than 140 refereed articles in refereed professional journals, conferences/seminars; 04 books: Modelling Vehicular Exhaust Emissions, WIT Press, UK; Artificial Neural Networks in Vehicular Pollution Modelling, Springer, USA; Aluminum Smelting: Environmental, Health and Engineering Perspectives, Ian Randle, Jamaica; 06 contributed chapters in books/handbooks, published by WIT Press, UK and Elsevier, USA. Additionally, he has published about 40 technical reports on research/consultancies conducted for government agencies and private industries. Prof. Khare continues to serve as peer reviewer for several government ministries grants programs and state programs and consultant/ advisor to the Government of NCT Delhi and Central Pollution Control Board.

Prof. Khare has recently contributed his expertise in formulating the methodology for estimating the Comprehensive Environmental Pollution Index (CEPI) for Industrial Clusters of India. The project was sponsored by the Central Pollution Control Board. He led the team of the experts in this project. Prof. Khare is also coordinating Governance, Planning and Law Group of experts in ongoing Ministry of Environment and Forests, Government of India Funded project on "*Ganga River Basin Management*" along with other IITs involved in other Management and Technical aspects of River Ganga. He is also serving as reviewer to many journals and publishing houses in and outside the country. Prof. Khare is in the editorial board of International Journal of Environment and Waste Management and International Journal of Environmental Engineering (IJEE) and has guest edited one of the IJEW special issues on Urban Air Pollution, Control and Management.

Prof. Khare's research has focused on local scale urban air quality modeling targeting the predictions of episodes at urban roads/intersections, mainly arising out from undefined low-level/line sources. Current research areas include formulation of air quality models and their validation; indoor air quality modeling in air-conditioned and naturally ventilated buildings and exposure assessment of related pollutants on indoor

occupants. He has been actively involved in research areas related to particulate pollution to ambient environment due to coal mining activities and sustainable cities analyzing the *Urban Genome* affecting the sustainable growth of the cities. He has also worked extensively in the area of industrial wastewater treatment particularly application of Rotating Biological Contactor Systems to treat industrial and sewage wastes. Prof. Khare and his research group have carried out a number of on site assessments of air pollutants and designed a number of effluent treatment plants to treat the corresponding wastes from various types of industries in and around Delhi. Prof. Khare has rendered his expert services as Atlantic LNG Chair Professor in Environmental Engineering at University of West Indies, St. Augustine Campus, Trinidad and Tobago for one academic year till July 2007. Prof Khare also recently served as DAAD Fellow to Karlsruhe Institute of Technology (KIT), Germany.

Prof. Khare is a Principal Member, International Sustainable Technological Association (ISTA), Arizona State University, USA, Member, Technical Advisory Board, Blacksmith Institute, USA, Principal Reviewer, Research Management Group, USA, Former Advisor (Air Pollution), Delhi Pollution Control Committee, Member (Expert), State Level Environmental Impact Assessment Authority (SEIAA), Government of NCR, Delhi; Fellow, Wessex Institute of Great Britain and Fellow, Institution of Engineers (India), Honorary Patron, Planet Earth Institute, London, Founder Member, Global Scientific Committee, Planet Earth Institute, London, Member Expert, Male Declaration, The Central Pollution Control Board, New Delhi, Founder Member, Council for Sustainable Development, New Delhi.

Prof. Khare has served as Non Official Director in one of the leading public sector undertakings, Hindustan Copper Limited, Kolkata, India from 2007 to 2010; and presently, he is serving as Non Official Director in the Central Mine Planning and Design Institute Limited (CMPDIL), Ranchi since December, 2010.

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