

Institute for Transport Studies
FACULTY OF ENVIRONMENT

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Key Research Interests

- Environmental and health assessment of land use and transport policies
- Traffic emission and air quality modelling
- Air quality, health and environmental justice
- Ecological and Carbon footprint of transport and domestic sectors
- Multi-criteria assessment

Research Projects and Experience

- More than twenty years research experience in the fields of environmental and health impact assessment of road transport policies. Development of a suite of models, TEMMS (Traffic Emission Modelling and Mapping Suite), to facilitate modelling and mapping of traffic emissions and air quality. TEMMS applications include environmental evaluation of transport policies and scenarios, and preparation of inputs to other (e.g. epidemiological) models. Within this context, TEMMS has generated considerable interest from potential end users in Local Authorities and air quality management support services. Also developed software (SMARTNET) for multi-criteria decision analysis of transport scenarios producing strategic environmental and health assessments.
- Currently involved in three Sustainable Urban Environment theme projects of EPSRC, SOLUTIONS (Sustainability Of Land Use and Transport In Outer Neighbourhoods), 4M (Measurement, Modelling, Mapping and Management: An Evidence-Based Methodology for Understanding and Shrinking the Urban Carbon Footprint) and ReVISIONS (Regional Visions of Integrated Sustainable Infrastructure Optimised for Neighbourhoods).
- In the past involvement in several EU, EPSRC and DoH research projects on environmental and health assessment of various land use and transport initiatives, e.g., RUPERT (Reducing Urban Pollution Exposure from Road Traffic), DAPPLE (Dispersion And Penetration of Air Pollution in local Environment) and HEAVEN (Healthier Environment through Abatement of Vehicle Emission and Noise).
- Project manager of 4M (ITS allocation of £400,000)

Professional Engagements

- Chartered Environmentalist (CEEnv)
- Fellow, Royal Meteorological Society (FRMetS)
- Member, Institution of Environmental Sciences (MIEnvS)
- Member, Institute for Air Quality Management (IAQM)
- Member, Environmental Protection UK (formerly NSCA)
- Life Member, Institution of Engineers (India) and Indian Association for Environmental Management
- Hon Secretary, Smart Environment Interest Group of the Intelligent Transport Society (UK)
- Regular reviewer for many reputed journals including Atmospheric Environment, Environmental Modelling and Software, International Journal of Environmental Pollution, and Atmospheric Research.
- Co-editor of a special issue of International Journal of Environment and Waste Management (2007)

Teaching

- TRAN5230 Transport and Environment
- TRAN5690 Monitoring Traffic Pollution
- TRAN5700 Modelling Traffic Pollution
- TRAN5070/5090 Principles of Transport Engineering
- Supervised several MSc dissertations
- Currently supervising a PhD on air quality monitoring and modelling

Selected Publications

- Namdeo, A. and Mitchell, G. (2007) Vehicle emissions under cordon and distance based road user charging – an empirical study of Leeds, UK. Environmental Monitoring and Assessment, doi:10.1007/s10661-007-9719-x.
- Mitchell, G. and Namdeo, A. (in press). SMARTNET: A system for multi-criteria modelling and appraisal of road transport networks. In: Sustainable Urban Development Volume 3: A Toolkit for Assessment (Eds. Vreeker et al.), Routledge.
- Mitchell, G., Namdeo, A. and Milne, D. (2005) The air quality impact of cordon and distance based road user charging: An empirical study of Leeds, UK. Atmospheric Environment, Vol. 39, No. 33, pp 6231-6242.
- Namdeo, A. and Bell, M.C. (2005) Characteristics and health implications of fine and coarse particulates at roadside, urban background and rural sites in UK. Environment International, Vol. 31, No. 4, pp 565-573.
- Namdeo, A. and Stringer, C. (2005) The relationship between air pollution, health and social deprivation in Leeds, UK. In: Air Quality Management at Urban, Regional and Global Scales, Volume 2 (Eds. Topcu, S., Yardim, M.F., Bayram, A., Elbir, T. and Kahya, C.), Istanbul Technical University, pp 1182-1191.
- Namdeo, A., Mitchell, G. and Dixon, R. (2002) TEMMS: an integrated package for modelling and mapping urban traffic emissions and air quality. Journal of Environmental Modelling and Software, Vol. 17, No. 2, pp 179-190.
- Mitchell, G., Namdeo, A. and Kay, D. (2000) A new disease-burden method for estimating the impact of outdoor air quality on human health. The Science of the Total Environment, Vol. 246, No. 2-3, pp 153-163.
- Namdeo, A.K., Colls, J.J. and Baker, C.J. (1999) Re-suspension and dispersion of fine and coarse particulates in an urban street canyon. The Science of the Total Environment, Vol. 235, pp 3-13.
- Namdeo, A., Baker, C. and Colls, J.J. (1998). Particulate pollution from motor vehicles. International Journal of Vehicle Design, Vol. 20, Nos. 1-4 (Special Issue), pp 10-20.
- Namdeo, A.K. and Colls, J.J. (1996). Development and evaluation of SBLINE, a suite of models for the prediction of pollution concentrations from vehicles in urban areas. The Science of the Total Environment, Vol. 189/190, pp 311-320.

Article

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International Journal of Vehicle Design

Issue: Volume 20, Numbers 1-4 / 1998

Pages: 10 - 20

URL: [Linking Options](#)

Particulate pollution from motor vehicles in an urban street canyon in Nottingham, UK

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Abstract:

Examining air quality information is important in understanding possible human exposure and potential impacts in health and welfare. It has recently been realised that smaller-diameter particulate pollutants are implicated in the increasing incidence of asthma and cancer. This paper presents the results of a study on particulate pollution from motor vehicles in urban areas. PM₁₀ and other fractions of airborne particulate matters were measured using two aerosol spectrometers in an urban street canyon in Nottingham, UK. Detailed information on traffic flow and vehicles was collected using video recording and sample surveys. Variations in temporal, spatial and size distributions of PM₁₀ and inhalable, thoracic and alveolic fractions of particulates are presented. This study will be of benefit to researchers in the field of atmospheric dispersion modelling and to epidemiologists looking at the health effects of particulate pollution.

Keywords:

motor vehicles, particulates, PM₁₀, street canyon

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ITS United Kingdom
The association promoting Intelligent Transport Systems

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Smart Environment

This group provides a forum for all ITS United Kingdom members with an interest in transportation and the environment to meet, discuss their views and study the uses of Intelligent Transport Systems (ITS) to benefit the environment.

The groups typical activities are as follows:

- Facilitate round table discussion between parties with an interest in the area
- Meet to hear presentations on current topics of interest
- Support the organisation of seminars open to a wider audience
- Influence Government Policy in this area
- Input to standards towards International Harmonisation of platforms and Interfaces

Full details of the group can be downloaded here.

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		ITS United Kingdom Interest Group Information Sheet
Name of Group – SMART ENVIRONMENT INTEREST GROUP		
Chairman – Professor Margaret Bell margaret.bell@ncl.ac.uk	Hon. Secretary – Dr Anil Namdeo a.k.namdeo@its.leeds.ac.uk	
The purpose of the Interest Group – To provide a forum for all ITS United Kingdom members with an interest in transportation and the environment to meet, discuss their views and study the uses of Intelligent Transport Systems (ITS) to benefit the environment.	Typical activities of the Interest Group – <ul style="list-style-type: none"> Facilitate round table discussion between parties with an interest in the area Meet to hear presentations on current topics of interest Support the organisation of seminars open to a wider audience Influence Government Policy in this area Input to standards towards International Harmonisation of platforms and Interfaces 	
	This Interest Group enjoys links with Groups: Local Authority / Urban Interest Group Road User Charging Interest Group and Automotive User Interest Group Projects: Academic integrated projects including LANTERN (Leeds health Air quality, Noise, Traffic, Emissions Research Network) and SUE FUTURES (Sustainable Urban Environment – Future Urban Technologies)	