



Neil Perks  
Managing Director  
**197 Consultancy Ltd**  
Specialists in Smart Mobility  
Solutions

Neil graduated from Newcastle University and is the Managing Director of 197 Consultancy Ltd based in the UK. He has more than 40 years experience in Intelligent Transport Solutions and providing integrated solutions both inside and outside the transport sector.

#### Academic Training

#### Qualifications

**Bachelor of Science in Electrical and Electronic Engineering**, Newcastle upon Tyne University, UK, 1972

**Ordinary National Certificate (ONC) Electrical Engineering** Charles Trevelyan College, Newcastle Upon Tyne 1969

#### Affiliations

Member of Expert Committee of Shenzhen ITS Association

#### KEY EXPERIENCE

Neil is a highly experienced transportation engineer with key local and international experience in the areas of integrated transport, urban traffic control networks, strategy development, public transport information and management, freeway traffic control and surveillance networks, tunnel traffic control and surveillance, and tolling, payment and smart-card networks. He has gained considerable expertise from previous projects in technical evaluation, design, implementation and operation, project management, people and team management and building,

strategy and planning; and financial management.

His innovative approach to solving the most complex issues has resulted in him presenting many ideas and innovative papers/workshops at local and international conferences. His work has seen him develop and provide a wide range of ITS services for Clients in Australia, Mainland China, France, Hong Kong, Ireland, Netherlands, New Zealand, Singapore, Taiwan and the United Kingdom.

## WORK EXPERIENCE

2012-Present (UK/China)  
**197 Consultancy Ltd** Managing Director

2010-2014 (Shenzhen/Beijing)  
**AECOM** Asia ITS Director and Practice Line Leader

2008-2010 (Sydney)  
**PB** Australia ITS Manager

2004-2008 (Beijing)  
**Atkins** China ITS Director

1999-2004 (London)  
**Atkins** ITS Local Authority Director

1994-1998 (Manchester)  
**Maunsell** Transport Systems Global Director

1988-1994 (Liverpool)  
**Sefton BC** Electrical Services Manager

1979-1988 (Preston)  
**Lancashire County Council** Traffic Control Manager

1972-1979 (Newcastle Upon Tyne)  
**Tyne and Wear CC** Traffic Systems Manager

## PROJECT EXPERIENCE

**North South Expressway Tunnel and Viaduct, Design of ITPMS Infrastructure and Development of Operational Response Plans. Singapore (2013-present)**

**Client:** Land Transport Authority, Singapore  
Team Leader for all ITPMS aspects of the project. AECOM was commissioned by the Land Transport Authority in Singapore to develop and design the E&M infrastructure for new the 20km highway, with about 12 km being in tunnel under the centre of Singapore. As well as the system architecture, ITS and Plant infrastructure, AECOM also developed all the emergency response plans and processes and procedures.

**Evaluation and Design of KJE/PIE Reversible Flow (RF) Highway, Singapore (2103-present)**

**Client:** Land Transport Authority, Singapore  
Team Leader for the detailed design and development of the RF ITPMS infrastructure, as well as the operational processes and procedures required for operation and the Control Centre requirements.

**Concept Transportation Infrastructure, Beijing 2<sup>nd</sup> Airport City, Daxing, Beijing, China (2013-present)**

**Client:** Daxing Government  
Transportation advisor for the appraisal and future development plans for the development of a new city

associated with the Beijing 2<sup>nd</sup> Airport.

**Sustainable Transport, City Development, Langfang, China (2013-present)**

**Client:** Langfang Government  
Transportation advisor for the expansion of Langfang city to enhance the potential benefits accruing for it's location near to Beijing 2<sup>nd</sup> Airport.

**Development of Samsung Smart City, Xi'an, China (2012-present)**

**Client:** Samsung  
Transportation advisor for the proposed development of a Smart City around the new Samsung manufacturing plant in Xi'an.

**Development and Review of Sustainable City Development, Yixing, China (2012-2013)**

**Client:** World Business Council for Sustainable Development  
Transportation advisor for the appraisal and future development plans for developing Yixing into a sustainable/smart city.

**Design/Construction of a Traffic and Incident Management System (TIMS), Hong Kong, China (2011-present)**

**Client:** Hong Kong Transport Department  
Incident detection and management specialist responsible for ensuring the effective implementation and subsequent operation of this innovative region wide incident implementation

**Performance Based Specification Development, NSW, Australia (2009-2012)**

**Client:** Roads and Marine Services, NSW Government  
Project Manager for the development of performance based specifications to be used in the procurement, operation and maintenance of highway ITS infrastructure level 1 and level 2 documentation.

**Road Tolling Evaluation – Road Decongestion Programme, Mauritius (2012)**

**Client:** China Harbour Engineering Company  
Review, assessment and advise on road tolling submissions and options for the client in relation to their PPP bid.

**Changsha Multimodal Transport Interchange – Development and Design of ITS Architecture and Infrastructure (2011-2012)**  
**Changsha, China**

**Client:** Changsha Real Estate Development Company/Changsha City Government  
Project Manager for the development and design of the ITS infrastructure for Changsha West Multimodal Transport hub. The transport hub is a terminal for long and short distance, and local bus services as well as the, under construction, Changsha metro. The terminal also serves extensive taxi services and private vehicle parking. The ITS infrastructure is being designed to provide seamless transfer between transport modes, as well as security and safety

networks. Among the 20+ systems being integrated are real time passenger information, traveller information, ticketing systems and personal and public security systems. On completion the integrated system will provide a transport hub which will be attractive to the traveller as well as a safe and secure environment.

**Xi'an Urban Road Network Improvement Project (ADB)**  
**Xi'an, China (2010-2011)**

**Client:** Asia Development Bank  
Technical Specialist for the development of the ITS component of the transport infrastructure. This includes the completion of the ITS infrastructure on and within the city's 3rd Ring Road and consists of VMS, Microwave Vehicle Detection, CCTV, Vehicle Enforcement and Car Parking Management, all connected back to the City's Traffic Control Centre. In addition, I am assisting the local government to develop a public education programme to improve safety on the road network, as well as working to develop an ITS architecture for the city to provide better management and improve information dissemination which can be progressed and expanded into the future.

**Wellington Street Public Transport Interchange**  
**Perth, Western Australia (2009-2010)**

**Client:** Perth PTA  
Project Manager for the development of technology

solutions for the implementation of a sub-surface public transport interchange in Perth. Technology is proposed to manage and operate the public transport services, both within and outside the interchange. System solutions considered will include vehicle detection and tracking systems, dynamic bus stand allocation, real time passenger information, access control and security and passenger counting systems.

**VicPark Tunnel Traffic Control and Management**  
**Wellington, New Zealand (2009)**

**Client:** NZTA  
Project Design Reviewer for the design of the tunnel management systems for the VicPark tunnel in Wellington. This includes the design of all FMS aspects of the project, data communications, electrical distribution and the tunnel lighting; as well as the safety and ventilation systems and the detailed design of the approach roads to the tunnel.

**M5 Tunnel Upgrade**  
**Sydney, NSW, Australia (2009)**

**Client:** RTA  
Project Reviewer for the independent audit of the upgrade of the M5 Tunnel, ensuring that all proposed solutions were cost effective and that the proposal being considered were proven and effective.

**M80 Freeway Upgrade  
Melbourne, Australia (2009-2010)**

**Client:** VicRoads

Team Leader for the development of the freeway management and lighting systems for the M80 along the NW area of the City. The freeway management employed VMS, Ramp Metering, Incident Detection, Lane Usage Signals and Variable Speed Limit Systems on both the open highway and short tunnel sections.

**Christchurch Public Transport Interchange  
Christchurch, New Zealand (2009-2010)**

**Client:** Christchurch City Council  
Project Manager for the outline development of a sub-surface public transport interchange. Technology was utilised to manage and operate the public transport services, both within and outside the interchange. Technologies employed included automated bus stand allocation, real time passenger information, CCTV, information signing, traffic signals, data communication, interchange lighting, underground and interchange safety systems, variable message signing and operator communication networks.

**Real Time Passenger Information, Brisbane, Queensland, Australia (2009)**

**Client:** Brisbane City Council  
International best practice review of Real Time Passenger Information systems, focusing on the operational aspects of each

implementation. This will allow the client to develop and operational infrastructure which can effectively manage the system.

**Freeway Management  
Adelaide, South Australia (2009)**

**Client:** SA Government  
Outline design of a Freeway Management System for the Northern Connector Road in Adelaide. The system comprises a variety of technologies and techniques to be used on the freeway including, VMS/CMS, CCTV, roadside telephones, incident detection, data collection, ramp metering, freeway signaling.

**Greater Wellington Total Mobility Project  
Wellington, New Zealand (2009)**

**Client:** GWRC  
Project Manager for the development of a computer based system for managing a taxi subsidy scheme. This involved and assessment of existing schemes and development of a design and specification for the system. The system included a number of taxi companies, assessment agencies and card suppliers, all connected to the central database operated by Greater Wellington Regional Council.

**OMCS Specification assessment and evaluation  
Sydney, Australia (2009-2010)**

**Client:** RTA  
Project Manager for the evaluation of existing motorway specifications, with a view to

refocusing on a more output based solution without inhibiting innovation within the projects.

**VicRoads Freeway Management – Monash-City Link-Westgate Upgrade  
Melbourne, Australia (2009-2010)**

**Client:** VicRoads  
Project manager for the electrical distribution design and implementation for the ITS and related equipment on the Monash-City Link-Westgate Upgrade.

**Nanjing Road Tunnel Safety Systems  
Nanjing, China (2007)**

**Client:** Nanjing Government  
Project director for the assessment and development of the critical safety systems in the Nanjing Metro Line 2 tunnel.

**Wuxi Inner Ring Road Traffic Control and Surveillance  
Wuxi, China (2006-2007)**

**Client:** Traffic Police  
Project director for the proposed design of a Traffic Control and Surveillance System for the City of Wuxi.

**Guangzhou Automatic Public Transport Monitoring and Dispatching (World Bank Project).**

**Guangzhou, China (2004-2006)**  
**Client:** World Bank  
Project director for the assessment, design and implementation of a real time bus monitoring and dispatching system in Guangzhou.

**Transport for London (UK) Traffic Control Design**

**London, UK (2006-2008)**

**Client:** Transport for London  
Project director for the detailed assessment and design of traffic control and management installations.

**Wuhan TDM and ITS Plan  
Wuhan, China (2006)**

**Client:** World Bank  
Project director/manager for the development of the detailed ITS plan associated with the Transport Demand Management study in the city of Wuhan.

**Guangzhou Inner Ring Road  
Traffic Control and Surveillance  
Guangzhou, China (World Bank  
Project) (2005-2007)**

**Client:** World Bank  
Project director for the proposed design and implementation of a Traffic Control and Surveillance System for the City of Guangzhou.

**Nanjing White Paper, ITS Plan  
Nanjing, China (2006)**

**Client:** World Bank.  
Project manager for the development of the ITS plan for Nanjing, as part of the development of the Nanjing white paper.

**China Car Parking Management  
Standards, China (2005)**

**Client:** China Standards Authority  
Project director for input into the development of the Variable Message Signing element of China National Car Parking System Standards.

**International Review of Best  
Practice for UK Ramp Metering  
Trials**

**Highways Agency, UK (2006-2007)**

**Client:** Department for Transport  
Responsible for the review of ramp metering technologies employed in SE Asia for input into the overall review document for the Highways Agency.

**Hangzhou Car Parking And  
Variable Message Signing  
Network**

**Hangzhou, China (2004)**

**Client:** ITSC  
Project manager for the development of an integrated car parking signing strategy for the historic town of Hangzhou, near Shanghai in China.

**Development of an Operational  
UTMC System**

**National, UK (2003-2004)**

**Client:** Atkins  
Project director for the design, development and supply of an open UTMC system conforming to DfT standards.

**Wolverhampton Multi-Modal  
Interchange Project  
Wolverhampton, UK (2003-2004)**

**Client:** Wolverhampton City Council  
Project director for the development of a real time bus/rail/tram interchange information system.

**Liverpool Variable (VMS) and  
Enhanced Message Signing  
(EMS) Strategy**

**Liverpool, UK (2003-2004)**

**Client:** Liverpool City Council  
Project director for the development of a strategy for the implementation of variable and enhanced message signing networks in the City of Liverpool.

**Salisbury Integrated Transport  
Network**

**Salisbury, UK (2003-2004)**

**Client:** Salisbury City Council  
Project manager for the implementation of an integrated transport network for Salisbury. The core infrastructure currently being installed includes CCTV traffic monitoring, urban traffic control, bus priority, car parking and bus information systems and active bus scheduling.

**Hampshire ITS Data  
Communications Strategy  
Hampshire, UK (2003-2004)**

**Client:** Hampshire County Council  
Project manager for the development of a long term data communications strategy enabling cost effective implementation and operation of Intelligent Transport Systems across Hampshire.

**Research into Radio Controlled  
Signal Heads**

**National, UK (2002)**

**Client:** Department for Transport, UK  
Project manager for the research and development of standards for the implementation of radio controlled traffic signal heads.



**Research Into Led Traffic Signal Monitoring**

**National, UK (2002)**

**Client:** Department for Transport, UK

Project manager for the development of standard requirements for the implementation of lamp monitoring for LED traffic signal heads.

**North Yorkshire Real Time Information and Bus Priority**

**North Yorkshire, UK (2002)**

**Client:** Local Authority

Assisting North Yorkshire County Council in the implementation of a Real Time Information system for Scarborough.

**Warrington Integrated Transport Management**

**Warrington, UK (2001-2002)**

**Client:** Warrington City Council  
Management of the development of an integrated transport platform to assist in solving the major transport problems currently being experienced in the urban area. The system will operate a number of individual transport systems including Urban Traffic Control, CCTV, Real Time Bus Information, Car parking information and management, and both automated and manually input information from outside sources.

**South Yorkshire Real Time Information and Bus Priority**

**Sheffield, UK. (2001)**

**Client:** Sheffield City Council

Project manager, assisting South Yorkshire PTE in the

implementation of their joint system implementation with West Yorkshire PTE.

**Belfast Real Time Information and Bus Priority System**

**Belfast, Ireland (2000-2004)**

**Client:** Roads Service (NI)

Project manager for the design, development and implementation of a real time information and bus priority network for Belfast.

**Salisbury Real Time Information and Bus Priority**

**Salisbury City Council, UK (2002-2004)**

**Client:** Salisbury City Council

Project manager for the development design and implementation of a real time passenger information along a number of corridors in the City of Salisbury.

**Poole Borough Council Private Mobile Radio Network Development**

**Poole, UK (2002)**

**Client:** Poole Borough Council  
Project manager for the assessment of a Private Mobile Radio (PMR) network for the Borough of Poole.

**Sligo Traffic Control Systems**

**Sligo, Ireland (2002)**

**Client:** Sligo Town Council  
Project manager for the feasibility, development and design of an integrated traffic control system along the Inner Relief Road in Sligo.

**Poole Real Time Information and Bus Priority System**

**Poole, UK (2001-2003)**

**Client:** Poole Borough Council

Project manager for the development design and implementation of a real time passenger information along a number of corridors in the Borough of Poole.

**Nottinghamshire Real Time Information and Bus Priority**

**Nottingham, UK (2001)**

**Client:** Nottingham City Council

Project manager for the design and implementation of a GPS real-time passenger information system, together with associated bus priority facilities at a number of junctions within a SCOOT Urban Traffic Control System.

**Leicester Integrated Transport Project Bid**

**Leicester, UK (2001)**

**Client:** Leicester City Council  
Project manager for the bid by Leicester City Council and the Government of Malta (ACCESS) to obtain funding through the EC CIVITAS initiative.

**Integrated Transport Management EC Bid**

**National, UK (2001)**

**Client:** European Union  
Project engineer for the EXSTATIC project bid which was concerned with the integrated management of transport in towns and cities. The project involved the co-ordination between 19 partners within the EC with the aim of submitting a successful bid for EC funding for the project.

**Traffic Wales Operational Information Network  
Newport, UK (2000-2004)**

**Client:** Welsh Assembly  
Project engineer involved in the development, operation and management of the Wales National Traffic Information Centre, covering the major road network in the country of Wales.

**UK National Traffic Control Management and Information Centre**

**National, UK (1999-2000)**  
**Client:** Department for Transport  
Project manager for the development of the operational, process, procedural and management structure for the UK National Traffic Control Centre bid.

**Assessment, Design and Implementation of Traffic Signal Control and Pedestrian Crossing Facilities**

**Aberdeen, Scotland (1999)**  
**Client:** Aberdeen City Council  
Project manager for the design and development of traffic control systems in Aberdeen. This involved the assessment, detailed design and implementation of 26 traffic signal and pedestrian crossing locations.

**Traffic Signal Design and Implementation - A23 Coulsdon Inner Relief Road**

**Coulsdon, UK (1999)**  
**Client:** Coulsdon Borough Council  
Assessment and design of traffic signals and pelican crossings on the new relief road.

**Nottingham Light Rail  
Nottingham, UK (1999)**

**Client:** Nottingham City Council  
Responsible for the design of the telematics infrastructure for the Nottingham Light Rail scheme, including all electrical and mechanical, systems, and road lighting works.

**Bus Lane Enforcement Cameras  
London, UK (1999)**

**Client:** Transport for London  
Development of vehicle location and tracking facilities for the implementation of bus-lane enforcement cameras.

**Urban Traffic Control and CCTV Surveillance System for Tai Po and Northern District  
Hong Kong (1998-1999)**

**Client:** Transport Department  
Project manager for the CCTV systems appraisal and design of the Traffic Control and Surveillance System in Tai Po and Sheng Shui regions.

**Kai Tak Airport Tunnel Traffic Control and Surveillance  
Hong Kong (1997-1999)**

**Client:** EMSD  
Project manager for the appraisal of existing system technology, and the investigation, design and implementation of a replacement system, communications, and associated operational strategies.

**Road Tolling Guangzhou City  
Guangzhou, China (1998)**

**Client:** Private Developer  
Project manager responsible for the assessment of alternative tolling and smart-card options for Huanan Road South.

**Warrington Integrated Transport Project**

**Warrington, UK (1997-1998)**  
**Client:** Warrington City Council  
Project manager for the development of a framework for an integrated transport management and information network to enable Warrington to meet its transport objectives well into the 21st century.

**Merseyside Rapid Transit  
Liverpool, UK (1997)**

**Client:** Liverpool City Council  
Project manager for the design and specification of the control and information systems for the Merseyside Rapid Transit, Guide-by-Wire system, including UTC, data communications networks, control room networks, system integration, CCTV, car park management, integrated ticketing, real-time passenger information, public address, security systems, highway, car park and platform lighting.

**Adelaide Driver Information  
Adelaide, Australia (1997)**

**Client:** South Australia Government  
Project manager responsible for investigating the feasibility of implementing a Variable Message Signing (VMS) driver information system, to provide information to the motorist on travel times on alternative routes from the south of the city to the city centre.

**Adelaide Crafers Highway Traffic Control and Surveillance Adelaide, Australia (1997)**

**Client:** South Australia Government

Project engineer for the design and technical specification of the telematics infrastructure on a new highway linking Adelaide to the suburb of Crafers in South Australia, including CCTV, incident detection, weigh-in-motion and emergency telephone systems.

**Smart Ticketing Taipei, Taiwan (1996)**

**Client:** Bid Consortium

Technical manager for the Public Transport Smart Ticketing project bid for Taipei in Taiwan.

**Urban Traffic Management and Control (UTMC) National, UK (1997-1998)**

**Client:** Department of Transport  
Project manager for the evolution of a detailed cost model as part of the research programme into the development of the UTMC system specification, highlighting savings that can be made by upgrading existing systems to UTMC. The report also included a detailed analysis of data communication alternatives suitable for use within an integrated operational network.

**West-Link Toll Bridge Dublin, Ireland**

**Client:** West-Link (1996)

Project manager for the assessment, design and development of a wind management, VMS signing and control system and associated

telematics strategies for West-Link Toll Bridge on the M50.

**Ipswich Quality Bus, Superoute 66 Project Ipswich, UK (1996-1997)**

**Client:** Ipswich Borough Council  
Working with town planners, engineers and marketing specialists to provide technology solutions to create a quality bus experience. The Superoute 66 bus route services an area of high car usage in the east of Ipswich. The access to and from the town centre was subject to a high degree of congestion at peak hours and a scheme was developed to attract more people onto public transport from private vehicles.

The key was to address all aspects of a journey, not just improve one aspect; hence a decision was made to address the highway infrastructure, the bus, the waiting areas, information and the brand image. Through the use of new designed low floor buses, traffic management measures, new bus stop facilities, technology solutions, driver communication training and an up-market brand image the bus route was able to double its ridership within 2 years.

**ITS Development Strategy Greater Manchester, UK (1995)**

**Client:** Manchester City Council  
Project manager for the development of Intelligent Transport System (ITS) strategies in Greater Manchester within an integrated environment.

**Central Edinburgh Rapid Transit Edinburgh, Scotland (1995)**

**Client:** Edinburgh City Council  
Responsible for the development of a functional specification and the evaluation of submissions for the ATT elements of the Central Edinburgh Rapid Transit proposal in Edinburgh.

**Swift Smart Ticketing Cardiff, UK (1994)**

**Client:** Cardiff City Council  
Provision of technical input into the feasibility study for the use of smart-card technology for public transport in the South Wales area, and to identify suitable technologies and scope for implementation outside the transport sector.

**Real Time Passenger Information Hertfordshire, UK (1994-1995)**

**Client:** Hertfordshire County Council  
Project engineer for assessment and specification of real-time passenger information systems in Hertfordshire, including linking to bus priority and SCOOT UTC systems.

**ATC and Electrical Systems Management Sefton, UK (1988-1994)**

**Client:** Sefton Metropolitan Borough Council  
Electrical services group manager reporting directly to the Borough Engineer, responsible for traffic systems and signals, street lighting and electrical services and numerous schemes within the local authority area and elsewhere, including the design and implementation of the Sig-



about trials in Sefton for the Transport Research Laboratory; advice and assessment of UTC options for input into Shropshire County Council's transport and policies programme; loop-site investigation and siting on behalf of Peek Traffic for the Bangkok UTC system, Thailand; the full assessment and electrical and civil design and implementation of all traffic signal and pelican crossing schemes in the Borough of Sefton, including associated traffic regulation orders.

**Urban Traffic Control and Surveillance**

**Sefton, UK (1988-1992)**

**Client:** Sefton Metropolitan Borough Council

Project manager responsible for the assessment, design, creation, implementation, validation, management and operation of a UTC and surveillance system to take over the existing traffic control systems from Liverpool City Council, the previous operator. This included a 130-node SCOOT UTC system, 30-node remote monitoring system, CCTV system and a car parking management system.

**Sig-Nabout**

**Bootle, UK (1992-1994)**

**Client:** Department for Transport  
Project manager for the design and implementation of the innovative Sig-nabout trials in Sefton for the Transport Research Laboratory.

**Traffic Systems Design and Operation**

**Lancashire, UK (1979-1988)**

**Client:** Lancashire County Council  
Chief Assistant Engineer (1979 – 1988), UK. Responsibilities included the design, specification, tendering, configuration and installation of numerous traffic signal systems throughout Lancashire, including both isolated and linked systems, signalised roundabouts, and wide area traffic control, including the design, implementation, development and operation of both fixed and SCOOT UTC systems in Preston, Blackpool and Lancaster.

**Transport Systems Design and Management**

**Tyne and Wear, UK (1972-1979)**

**Client:** Tyne and Wear County Council

Transport Systems Manager responsible for the design and maintenance of the County's traffic signal infrastructure.

**Electrical Highway and Building Services**

**Newcastle Upon Tyne, UK (1966-1972)**

**Client:** Newcastle Upon Tyne City Council

Assistant Engineer involved in the design, operation and maintenance of the City's electrical equipment infrastructure

**PAPERS AND PUBLICATIONS**

**Smart Transportation – Achieving Modal Shift through Technology Solutions** – Smart Cities Symposium, Kuala Lumpur, Malaysia, July 2012

**ITS, Enhancing the Multimodal Experience** – Asia Pacific ITS Forum, Kuala Lumpur, Malaysia, April 2012

**Conceptual Design and Application of Information Systems for Multi-Modal Interchanges** – China International Intelligent Transport System Expo, Shenzhen, China, November 2011

**Intelligent Transport Solutions – Enhancing the Multi-Modal Experience** - 7th China Urban Intelligent Traffic Forum, Shenzhen, China, May 2011

**State of The Art Development in Incident Detection** – Hong Kong Transport Department Annual ITS Seminar, December 2010

**ITS and Sustainability in Public Transport** - International Public Transport Conference Kuching, Malaysia, August 2010

**‘The Role of National/Regional Intelligent Transport Associations in the development of a Nations ITS infrastructure, an International Perspective’** - 6th China Urban Intelligent Traffic Forum, Shenzhen, China, July 2010

**‘ITS in Public Transport’** – Various PB sponsored Seminars and Workshops, 2009/2010

**‘ITS Safety – The View From China’** – ITS World Congress, Beijing, October 2007

**‘International Experience in Intelligent Transportation Systems’** – IBEC One day workshop at ITS World Congress, Beijing, October 2007

**‘The Role of ITS in Sustainable Transport’** – PIARC conference, Shanghai, April 2007

**‘Notes on Developing a Consultancy Business in China’** – ITS World Congress, London, October 2006

**‘Urban Traffic Management and Control (UTMC), Integrated Systems in the UK’** – China ITS Forum, Beijing, May 2004

**‘Real Time Passenger Information, Implementation Issues’** – ITS UK Members Handbook, 2003

**‘ITS in Beijing’** – Contribution to Beijing TV programme on the current state of transport, and potential solutions, Beijing, March 2003

**‘Benefits of Integrating ITS into Highway Design Projects’** – International Conference on Inter-city Transportation, Beijing, November 2002

**‘Application and Benefits of Transport Technology in Major Highway Design Projects’** – Bridges and Highways Engineering Congress, Hong Kong, September 1999

**‘ITS In the UK’** - ITS Australia conference, Adelaide, Australia, May 1999

**‘Olympic Training - Integrated Transport Information Networks’** - New Civil Engineer International, April 1999

**‘UTMC, Cost Model Development’** - Urban Traffic Management and Control

(Advances in UTMC) Seminar, February 1999

**‘The Application of Technology in Transport Networks’** - New Civil Engineer Seminars, Partnership Solutions for Integrated Transport, January 1999

**‘The Move Toward Integrated Transport’** - Maunsell Integrated Transport Seminars, October 1998

**‘Urban Traffic Management and Control, Cost Model’** - UTMC 2nd Annual Conference, October 1998

**‘Tolling It Like It Is - the Case for Electronic Toll Collection’** - Surveyor, September 1998

**‘Intelligent Transport Systems, Quality Public Transport and Beyond’** - Civils’ 98 Conference, May 1998

**‘Systems Technology in Transport’** - China Highway Investment Forum, Beijing, December 1997

**‘Cost Effective Toll Collection’** - Half day workshop, China Highway Investment Forum, Beijing, December 1997

**‘Intelligent Transport Solutions’** - Half day workshop - China Highway Investment Forum, Beijing, December 1997

**‘Traffic Control and Surveillance Systems Evaluation’** - Highway Surveillance and Systems Division, Hong Kong Government, May 1997

**‘Traffic and Transport Systems Technology’** - Institute of Civil Engineers / Institution of Highways and Transportation, North West Area, April 1997

**'System Technology in Transport'** - Chartered Institute of Transport, Merseyside Area, November 1996

**'SigNabout - the Alternative Approach'** - Institution of Civil Engineers South West, February 1996

**'Real-Time Passenger Information, the Satellite Approach'** - Northern Area Traffic Engineers group, November 1995

**'SCOOT - the Integrated Approach'** - Southport Chamber of Trade, February 1994

**'High Capacity Signal Junctions'** - Association of Metropolitan District Engineers, November 1993

**'SCOOT Urban Traffic Control, part of an Integrated Approach'** - Association of Metropolitan District Engineers, November 1993

**'A Flare for Design'** - Surveyor, July 1993