The 6th Institution of Engineering and Technology Conference on

Road Pricing
Technology, Interoperability and User Acceptability

9-10 December 2008
The IET, Savoy Place, London

Celebrating 50 Years of the Motorway

ABOUT THE CONFERENCE

- Expanded two day programme to focus on the future of road user charging and the latest applications of technology
- Identify the technologies, systems and procurement methods for the next generation of Road User Charging Schemes

SPEAKERS INCLUDE

Professor John Wootton
Transportation Research Group
University of Southampton

Jeremy Evans
Head of Traffic and Technology
Transport for London

Don Mackinnon
DfT Project Manager
Department for Transport

Professor Stephen Glaister
Director
RAC Foundation

Roger King
Chief Executive
Road Haulage Association

Bob Tuckwell
Strategic Transport Adviser
Cambridgeshire County Council

Sharon Kindleysides
Managing Director
Kapsch TrafficCom Ltd.

Professor Glenn Lyons
University of the West of England

Register at www.theiet.org/road-pricing
INTRODUCTION

The IET is pleased to present Road Pricing 2008, the sixth event in a long-standing series. The 2008 programme will focus on the latest applications of road user charging systems and technologies. Attendees will have the chance to question specially selected speakers and panellists on key issues including future road pricing schemes, technology options, interoperability and user acceptance.

FIND OUT ABOUT:

- London’s next steps following recent technology trials
- DfT’s Time-Distance-Place based road pricing Demonstrations Programme
- Technology reviews for future schemes
- Interoperability – building the European and Australian schemes
- Making RUC palatable to users

WHO SHOULD ATTEND:

Professionals working in the areas of:

- Intelligent Transport Systems (ITS)
- Transportation/Traffic Operations Design
- Transportation Systems Engineering
- Transport Planning
- Road User Charging/Congestion Charging/Low emission zones
- Transport Policy
- Transport Research & Development

This year marks the 50th anniversary of the opening of the first motorway in the UK, the Preston Bypass. Road Pricing 2008 will look at the significance of this landmark, mapping a direction for efficient road transport for the next century.

EVENT PROGRAMME

TUESDAY, 9 DECEMBER

9:30 Registration

10:30 Chair’s Welcome
Dr John Walker, Chief Technical Consultant
Thales

10:40 Keynote
50 Years of Motorways and their Importance to the UK
Professor John Wootton, Transportation Research Group
University of Southampton & Chairman
The Motorway Archive Trust

11:00 Panel Discussion
Road Pricing and the Future of Roads and Freight
Chairman: Professor John Wootton
Edmund King, President
AA
Professor Stephen Gaister, Director
RAC Foundation
Stephen Joseph, Executive Director
Campaign for Better Transport
Roger King, Chief Executive
Road Haulage Association

11:50 The DfT TDP Demonstrations Project
• The background to the DfT’s Time-Distance-Place-based Road Pricing project
• The four road user service provider projects
• The three compliance projects
• The timescales and objectives
Don Mackinnon, DfT Project Manager
Transport Technology Consultants

12:30 Lunch

INTEROPERABILITY, THE TIP AND UK SCHEMES

Chairman: Andrew Pickford, Principal
Transport Technology Consultants

13:30 Cambridgeshire and the TIP – What Next?
• Experiences of bidding for the Transport Innovation Fund (TIF)
• Designing a scheme that is acceptable to the public
• Selecting technologies that deliver the salable benefits of the scheme
Bob Tuckwell, Strategic Transport Adviser
Cambridgeshire County Council

14:10 Australian Case Study
360° Interoperability of Multivendor Tolling Systems
Australia’s twelve motorways use a range of tolling systems and configurations delivered by several vendors. Hear about the processes and mechanisms that have allowed national interoperability and an analysis of their applicability to the UK.
Dan West, Manager, Intelligent Transport Systems
PB
Rod McFarlane, Operations Manager
Interlink Roads
Peter Martin, General Manager, Tolling Branch
Roads and Traffic Authority, NSW

14:35 Congestion Charging in London: an Update
• Latest results on the impacts of the scheme in central London
• Results from the technology trials
• An update on future proposals for road user charging in London
Jeremy Evans, Head of Traffic Technology
Transport for London

15:00 Refreshments

USER ACCEPTABILITY

15:30 Cheap, Flexible, User Centred Road Charging
Most road charging trials and service developments have rightly investigated technical performance but have not tackled the key challenges of:
• Public acceptance
• Acceptable capital and operational costs
• Flexibility
• Reliable fee collection
PA Consulting pioneered a different approach to developing, trialling and refining road charging services tackling these issues. This paper will outline the four key steps of the approach.
Simon Smith, Managing Consultant
PA Consulting

16:00 Panel Discussion
Road User Charging and Public Acceptability
• Designing a scheme that is acceptable to the public and meets government requirements
• Identifying the benefits: congestion and pollution reduction, journey times, the environment and driver behaviour
• Setting the charges and allocating the revenues: what will be deemed fair?
Professor Glenn Lyons, Director of the Centre for Transport & Society
University of West of England
Jack Opiola, Principal
Booz & Company
James Hookham, Director of Policy
Freight Transport Association

17:00 Close of Day One

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Wednesday, 10 December

9:00 Chair’s Welcome
Dr John Walker, Chief Technical Consultant
Thales

9:05 The Trusted Driver Approach to Privacy in TDP Road Pricing Schemes
Time-distance-position (TDP) road pricing brings about insurmountable privacy concerns as it requires motorists’ movements to be recorded. The new ‘trusted driver’ approach preserves privacy by ensuring that location data and identity are linked only within the vehicle’s on-board telematics unit (OBU).

Charles Palmer, Technical Director
Acute Technology

9:30 VEER: Vincenzio in End to End Road User Charging Schemes
The VEER project enables low cost satellite systems to collect transaction information from multi-functional car mounted OBUs, saving communications costs while providing broadcast signals supporting anti-spoofing.

Adam Brzozowski, Project Manager and Graham Peters, Consultant Sales Director
Avanti Communications

9:55 The CEDAR Project: Charging Electronically by Distance and Road
A technology trial of distance-based Road User Charging (RUC) in Southern England using distance-based OBUs more advanced than those employed in the TRL trials. It aims to understand how a complete system can influence driver behaviour.

Dr John Walker, Chief Technical Consultant,
Dr P Harris, Senior Engineer, and
g C Burden, Chief Engineer
Thales

Professor M McDonald and Dr R Hall
University of Southampton

9:00 Chair’s Welcome
Dr John Walker, Chief Technical Consultant
Thales

11:20 European Case Study
The Road Charging Interoperability Project
• The organisational model for the European RCI scheme
• Standardising pricing models
• Overcoming issues of equipment compatibility between member states

Omer Kerdijen, Project Coordinator – RCI Project
Enrico

11:45 European Interoperability, EETS and the Directive
• Update on progress towards achieving the European Electronic Toll Service (EETS)
• Current status of standards to support the EETS
• The future for a European-wide Road User Charging strategy

Iain Calling, Partner
Ian Callling Consultancy

12:10 A Comparison of European HGV Charging Schemes
An examination of the German, Austrian, Czech and Swiss schemes, and the proposed French and Swedish schemes.

Michael Gechtner, International Sales Director
Kapsch

12:35 Lunch

13:35 The New Eurovignette: Further Development of Europe’s First Multinational Tolling System
• Characterisation of the Eurovignette today
• The new paperless Eurovignette system: system, booking, payment, utilisation and enforcement
• Special features and advantages

Dr. Ludger Linnemann, Director Product Management
AGES International GmbH & Co KG

14:00 Czech Republic Case Study
A Review of Technologies Applied in the Past and Those Required for the Future
A case study of technologies applied and proposed for the Truck Tolling System in the Czech Republic, looking at:
• System design and architecture
• Financial and political risks
• Charging policy development: hybrid system, LGV charging, ELHC
• Flexibility of solutions and dealing with the unexpected

Sharon Kindleysides, Managing Director
Kapsch TrafficCom Ltd.
Jiri Kopecky, Road User Service Manager
Kapsch Telematics Services GmbH

14:25 Five Generations of Road Charging
Lessons learnt through the Singapore ATPS, Norwegian Cities, Hong Kong, London and Stockholm congestion charging schemes to determine an informed design for future schemes.

Jack Opinya, Principal
Booz & Company

14:50 Refreshments

15:20 The Challenges in Upgrading an Operational Toll System
An examination of strategies employed in the Dartford Crossing toll system upgrade, including the re-design of the account management and lane architecture systems to allow for new tag-based accounts and pre-registered users.

Louise Polley, Systems Development Manager
Lo Crossing Company
Tony O’Neill, Divisional Director
Mott MacDonald

15:45 Exploding the Myths – the True Costs of Road User Charging Systems
An examination of recent examples from Austria and the Czech Republic identifying ‘normal’ operating costs for RUC schemes and how scheme design can minimise costs from the outset.

Sharon Kindleysides, Managing Director
Kapsch TrafficCom Ltd.
Jiri Kopecky, Road User Service Manager
Kapsch Telematics Services GmbH

16:10 Automatic Counting of Vehicle Occupants
• Policing High Occupancy Toll lanes
• Applications of the ‘direct’ system including High Occupancy Vehicle lanes, High Occupancy Tolling and differential congestion charging
• How the technology works and real operational experiences

Professor John Tyer, Professor of Optical Instrumentation
Loughborough University

16:35 Vehicle Classification and Registration Challenges for Emission Based Charging Schemes
The implementation of the London Low Emission Zone faced challenges of classifying vehicles, despite a lack of consistent data on international vehicles, and data protection laws across different countries blocking access to vehicle information. Find out how the operator achieved a workable system.

Dr Michael Youngman, Senior Manager, Technology Deloitte

17:00 Close

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Road Pricing
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9-10 December 2008
The Institution of Engineering and Technology, Savoy Place, London, WC2R 0BL, UK

REGISTRATION FORM

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2 Fax: +44 (0) 1438 765 659

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5 Post: Finance Dept, The Institution of Engineering and Technology PO Box 96, Stevenage Herts, SG1 2SD

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EARLY BIRD REGISTRATION (on or before Monday, 13 October 2008) £ p

Member £395.00 (+ £69.13 VAT= £464.13)

Non Member £495.00 (+ £86.63 VAT= £581.63)

Retired/Student* £195.00 (+ £34.13 VAT= £229.13)

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* All students must have their applications endorsed by their Professor or Head of Department. Fees include a copy of the the CD ROM proceedings, morning and afternoon refreshments and lunch. Payment must accompany this registration form. Registration will only be confirmed on receipt of full payment.

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