



May 2008 Newsletter

Welcome to new Corporate Members **Nexus** (www.nexus.org.uk) and **Counters and Accessories** (www.c-a.co.uk)

Thank you to **Serco** and the **Highways Agency** for hosting a visit for ITS (UK) Members to the National Traffic Control Centre on 1 May, to the **University of Southampton** for hosting a meeting of the Freight Interest Group on 27 May, and to **Arup** for hosting the 2008 ITS (UK) AGM on 29 May.

News from ITS United Kingdom

Highways Agency– NTCC Visit

On 1st May ITS United Kingdom with the help of Serco organised a visit to the Highways Agency's National Traffic Control Centre.





ITS United Kingdom Calendar

3 June	Passenger Information Interest Group- Rail ITS Seminar jointly with The Swedish Rail Administration, Geneva
10 June	Public Sector Liaison Group – Mouchel, Manchester
10 June	Road User Charging Interest Group- Mouchel, Manchester
12 June	Automotive User Interest Group – MIRA, Nuneaton
24 June	Smart Environment Interest Group- ET Automotive, Stroud

Current contra deals on conferences for ITS (UK) Members

Moving On Conference: 16th – 18th June, Liverpool. <http://www.moving-on-conference.co.uk/> 15% discount for ITS (UK) members

Prepaid Conference: 23rd – 25th June, London. <http://www.prepaid-conference.com/> 15% discount for ITS (UK) members

Delivering Integrated Transport Solutions Conference 10th July, London. www.ncetransport.co.uk £30 discount for ITS (UK) members

Road pricing 2008 Conference: 9th -10th December, London. <http://www.theiet.org/events/2008/road-pricing.cfm>

Details of the discounts on offer from Maria Downs, 020 7709 3005 or mardowns@its-uk.org.uk

News from ITS United Kingdom Members

TRL and The Dambusters Raid

The Dambusters Raid was 65 years ago today. This year, Foundation Member TRL is celebrating its 75th anniversary and part of our early work included research and development supporting The Dambusters Raid. During the Second World War, the Road Research Laboratory (RRL) gained expertise in using scale models to examine the effects of explosives and projectiles in air, earth and water. As a result, Barnes Wallis of Vickers Armstrong approached RRL in October 1940 to discuss the possibility of attacking enemy dams, including the 650m long Möhne Dam. RRL agreed to help and a team was set up under Dr A R Collins. Initially (November 1940 to January 1941) tests were conducted using a 1/50 scale model of the Möhne Dam at the Building Research Station (BRS), near Watford. Small charges were exploded 0.3 to 0.9 metres from the dam. Although cracked, the dam held. Further tests were conducted at RRL Harmondsworth, near Heathrow. It was concluded that a 6,800 kg charge detonated 30 metres from a full-scale dam would cause severe damage but not complete failure. Further tests were needed to verify the scaling of the model explosions and arrangements were made to use the redundant Nant-y-Gro dam (55 metres long) near Rhayader in Wales. Scale models of this dam were built at RRL towards the end of 1941. Early in 1942, a test was conducted with a charge placed in contact with a model dam (rather than at a distance from it). This breached the dam. This was followed on 24 July 1942 by a successful test using a 125 kg charge in contact with the Nant-y-Gro dam. In August 1942, Collins reported that a full-size dam could be breached using a 3,400 kg charge exploded in contact with the dam and 9 metres below the water level. RRL's research demonstrated that the only effective way of destroying the Möhne Dam would be to explode an underwater charge in contact with the dam. This led Barnes Wallis to develop the bouncing bomb to deliver a charge in the correct position. RRL also demonstrated that a bomb could be light enough to be carried by a Lancaster bomber. Research continued up to Dambusters raid on 16 May 1943

SEA- Wembley Park upgrade

Corporate Member SEA has recently completed a programme of work to augment the functionality of the VID3000 system, which provides passenger information at Wembley Park underground station for Tube Lines. The Wembley Park system has been updated to support the delivery of train prediction information to the passengers on the fast branch of the Metropolitan Line. The additional data feed also provides passengers with station stop information. The completion of this project brings SEA's tally of delivered passenger information upgrades to 21 London Underground stations.

Cityspace buys Kizoom

Corporate Members Cityspace today announced that it has acquired Kizoom, a UK market leader in delivering real-time transport information to the internet and mobile devices. Founded in 1999, Kizoom established a profitable market niche through the development and operation of mobile software applications for the major transport operators and selling bespoke customer information software services to public transport companies. Today, Kizoom's client list boasts the five biggest UK mobile operators, Transport for London (TfL), National Rail Enquiries (NRE), the DfT, Trainline and eight Traveline regions. "Kizoom is a great fit for the business in several ways," said Andrew Fraser, Cityspace CEO. "As an established Cityspace technology partner, collaborating on some of our flagship transport solutions such as our latest deployment of timetable to mobile alert for National Express East Coast rail network, the company has

demonstrated outstanding technical skills and has valuable strengths in application development. Kizoom brings proven expertise in mobile solutions for the transport market at a time when Cityspace is fast establishing itself as providers of effective, innovative passenger information solutions for national rail and bus networks and at airports."The acquisition of Kizoom reflects an important milestone in the Cityspace strategic growth plan since Andrew Fraser was appointed as Chief Executive in February this year. Kizoom's established connections to many public transport real-time and timetabled data feeds opens up opportunities for Cityspace in these complementary organisations and transport regions. Commenting on the acquisition from Kizoom, Damian Bown, Managing Director, said "As travel information moves inexorably to electronic and self service channels, transport organisations will expect to be offered increasing levels of system support, availability and capacity. Kizoom's experience in running systems for TfL and National Rail equips Cityspace with the skills and credentials to offer an unparalleled portfolio of multi platform passenger information solutions. This is a great partnership with a well of untapped opportunities ahead."

SEA- Two new contracts from Network Rail

Network Rail has awarded SEA two contracts with a value of approximately two million pounds. The first contract is to deliver the Signallers Forms Automation Project. The project is designed to automate a manual paper-based system of forms to an electronic version. The project will enable Network Rail to utilise a more effective means of capturing, storing and disseminating forms-related information between Signallers and other Operational third parties. The solution is to be implemented in Integrated Electronics Control Centres (IECCs) and Power Signal boxes, as well as some large manual boxes.

TRANSYT 13 Ships!

TRL is pleased to announce the eagerly anticipated launch of TRANSYT 13, its internationally-recognised software program for determining and studying optimum fixed time, co-ordinated, traffic signals timings. TRL has invested significantly in this major upgrade to TRANSYT. For the first time TRANSYT 13 offers a fully graphically integrated version, with across-the-board improved ease-of-use, as well as a host of new features, which will benefit all users. TRANSYT 13 can be used with any network of roads for which the average traffic flows are known. Optimising signalised junctions in order to reduce congestion and all its related consequences are a key part of any modern traffic management system. TRANSYT 13 from TRL aims to make it a simpler modelling process in just the one package – saving the traffic professional vital software expense and training time. Major new features include: CTM (cell transmission model) allowing modelling of blocking back effects and graphical animation of traffic cells throughout the network, Improved opposed right-turn model, Works directly with link/phase timings and intergreen matrices, Time-varying traffic flow conditions catered for, Explicitly defined pedestrian and tram links, Dynamic graphical user interface, New network drawing tool – fully integrated, fully interactive and improved, Graphical cycle-time optimisation, Calculated "wasted green" information, Graphical colour reporting, Each signalised link now associated with a signals node and independently, a traffic node: allowing certain special cases to be modelled in a more straightforward way, Nodes can be double, triple and quadruple-cycled, and each link with up to four green periods, New outputs, including un-weighted P.I, wasted time, and end-of-red/green queues, Many data ranges extended, Multiple demand and signal sets, A powerful generic X-Y Graph Generator. TRANSYT 13 is released for shipment now and has introductory upgrade pricing for a limited period.

For TRANSYT 13 and the complete range of TRL Software products visit www.trlsoftware.co.uk or email softwarebureau@trl.co.uk.

London places controller order with Siemens Traffic

Corporate Members Siemens Traffic have been awarded a significant contract by



Foundation Members Transport for London (TfL), for the supply of the latest high performance traffic signal controllers for a variety of pedestrian and intersection installations across the Capital. Based on financial considerations as well as service and quality, the 3 year contract is designed to meet TfL's demand for up to 1,200 junction and pelican controllers and is extendable to 2012, the year of the London Olympics. Commenting on the award of the new contract on behalf of Siemens, Tom MacMorran, the company's Director - Sales and Marketing, stated: 'It's another highly significant contract for Siemens'. The company has previously been awarded contracts by TfL for a wide spectrum of traffic monitoring and signal equipment including controllers, outstation

transmission units and bus processors and has enjoyed a close working relationship with the authority over a number of years. Based on the proven ST800, the equipment available to TfL is designed for maximum flexibility in a wide range of applications including intersection and pedestrian control in both isolated and Urban Traffic Control environments. Its ability to be supplied in the TfL variant of the TCUG on-street cabinets makes it the preferred choice where a cost effective technology upgrade and service accessible enclosures are required. Both single and dual ST700 pelican controllers with integral remote monitoring can also be supplied in the TCUG cabinets bespoke to London. The ST800 and ST700 are approved to the UK Department of Transport Specification TR2210 and meet the essential requirements of European Specifications prEN12675 and prHD50278. For evaluation purposes, TfL will also trial the company's new ST900 ELV (Extra Low Voltage) controller. When coupled with Helios ELV signal heads, regulatory signs and solar sensors, the new controller provides a complete ELV system. Designed for maximum flexibility providing Intersection, Pelican, Puffin and Toucan strategies to UK Highways Agency specifications TR2500, at both LV (230V) and ELV (48V) output drive levels. The ST900 ELV is compatible with the entire range of Siemens street-furniture, including Helios LED signals, LED nearside signals and LED wait indicators, which all offer significant power cost savings over conventional signals.

New signs to display high wind alerts on Mersey crossing

To help alleviate disruption on the local road network, Halton Borough Council has installed 8 new VMS signs on approach roads to The Silver Jubilee Bridge between Runcorn and Widnes. The signs will also link via Siemens Comet to a new wind sensor recently installed on the crossing to detect strong gusts enabling the equipment to automatically alert drivers of high-sided vehicles of bridge closures. According to the



authority's Traffic Manager, Stephen Rimmer, The Silver Jubilee Bridge currently carries over 90,000 vehicles per day in both directions over the River Mersey and traffic flow is extremely sensitive to any disruption. 'The new equipment will be set at 2 levels to detect gusting winds over

35mph and 50mph. Comet will then feed data to signs on both sides of the river advising drivers to either proceed with caution or not to use the crossing respectively', he said. The Silver Jubilee Bridge experiences high levels of congestion at peak periods and faces significant maintenance problems. During strong winds last year, a vehicle was blown over on the bridge and increasingly stronger westerly winds can now be detected by the authority to help manage traffic flows in the area. Future traffic management measures are also under discussion with Siemens. When constructed in 1961, The Silver Jubilee Bridge was the third longest span steel arch bridge in the world. It is still believed to be the UK's longest local authority-owned highway bridge and is now a Grade II Listed Building. The proportions of the main span of the bridge are approximately 2/3rds of that of the Sydney Harbour Bridge. The bridge and approach viaducts were widened in 1977 to cope with escalating volumes of traffic. Since becoming a unitary authority in April 1998 Halton Borough Council has completed several maintenance contracts on the Silver Jubilee Bridge and its approach viaducts totalling approx £9million. These contracts include steelwork painting, removing and repairing defective concrete, joint replacement and repair, strengthening and parapet replacement.



Over 70 abstracts of reports, conference papers, books and journal articles which focus on recent developments in the field of transport telematics. Abstracts are included on systems architecture, plans / case studies for specific applications for regions or urban areas, road pricing, control of fleets of vehicles and organisations of parking facilities.
Price £30

International News

Busy period for Siemens in China

2008 is proving to be a very busy year for Siemens Traffic Controls in China, as a result of one of the company's largest overseas order in recent years for the supply of new traffic control equipment to the city of Wuhan, capital of the Hubei province. The contract, which forms part of a prestigious World Bank project, consists of the provision of a new Urban Traffic Control (UTC) system with PC SCOOT and the supply and installation of more than 400 ST800 signal controllers and 1,000 detector units throughout the year and into 2009. According to Peter Gorton, Siemens' General Sales Manager, Wuhan is positioning itself as one of the most progressive cities in all Asia. The Hubei province is situated in the heart of China and is building infrastructure for the future, to deal with its growing population and increased levels of road and pedestrian traffic. 'Supporting this continued development, and working in association with our colleagues at Siemens Limited China, our equipment will help the city manage the additional traffic more effectively,' he said. PC SCOOT now offers users numerous benefits, including ease of use, simple installation and migration, and reduced equipment and maintenance costs, all operating on a PC. The advanced features reduce maintenance requirements and provide more opportunities for implementing a range of traffic control solutions. PC SCOOT includes all the major features of the Siemens UTC/SCOOT system, monitoring traffic in real-time, it optimises traffic signal operation and adjusts the signal timings to match prevailing conditions, thus increasing network efficiency. The ST800 is a high performance traffic controller from Siemens. It is designed for maximum flexibility in a wide range of applications including intersection and pedestrian control in both isolated and Urban Traffic Control environments. Its ability to be installed into existing on-street cabinets makes it an ideal choice where a cost effective technology upgrade is required. The ST800 is approved to the UK Department of Transport Specification TR2210 and meets the essential requirements of European Specifications prEN12675 and prHD50278. Situated at the crossroads of central China, Wuhan is a transportation hub for air, railway as well as ferry traffic with three national development zones, four scientific and technologic development parks, over 350 research institutes, 1470 hi-tech enterprises and numerous businesses. With Wuhan's strategic position in central China the city is a natural hub for effective distribution for products of many industries, particularly for distribution of cars, as domestic car sales are increasing all over China. Several major national highways link Wuhan with nine major cities. These highways are also directly linked up to 15 provincial highways and 39 county and village highways, all capable of accommodating up to 85,000 traffic movements every day. With a population of more than 9 million and an area covering 187,400 square km, Wuhan is an energetic city, a commercial centre of finance, industry trade and science. Home to many international companies and scientific, technological and educational institutions such as the Wuhan University, the city is also an intellectual centre. The distance from Beijing, Shanghai and Guangzhou is more or less equal, and the giant Yangtse River (Chang Jiang), the world's third longest river, and the Han River pass through the city. The blend of traditional manufacturing with new hi-tech industries including the emergence of electronics and pharmaceutical companies is seen as an

indicator for the future to secure on-going business. This press release can be found on the web at: www.siementraffic.com

**For more information about any of the items in this Newsletter,
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**News from Members for inclusion in the June issue should be sent to
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might be interested! Why not add it to your intranet?**