ITS^{3}2004
Intelligent Transportation Society (Singapore) Symposium 2004
8-9 July 2004 at Marina Mandarin Hotel, Singapore

2nd Announcement & Preliminary Programme

ITS (Singapore) is the national, non-profit society dedicated to the promotion and use of new technologies in transportation. Formed in 2001, ITS (Singapore) is affiliated to ITS -Asia Pacific and other similar regional and national organizations world wide.

ITS (Singapore) is organizing ITS^{3}2004, the second annual symposium, to be held on 8-9 July 2004. The purpose of this symposium is to provide a forum for ITS system developers, vendors, researchers, professionals and other stake holders in Singapore and the Asia Pacific region to share their ideas and experience.

The inaugural symposium, held in 2002, attracted 50 participants and speakers from Australia, Canada, China, Hong Kong, Malaysia, Taiwan and USA, other than from Singapore. This year's symposium is held in cooperation with the 4th International Workshop on ITS Telecommunications (ITST2004), at the same date and venue. ITS^{3}2004 and ITST2004 will have joint opening session, special session, technical tours, luncheons and coffee/tea breaks. Participants who register for ITST2004 are also allowed to attend the technical sessions of ITS^{3}2004. There will be plenty of opportunity to network with colleagues in the ITS industry attending both events.

ITS professionals, practitioners and researchers in Singapore and the Asia Pacific region are invited to register and participate in ITS^{3}2004.

The organizing committee of ITS^{3}2004 is still accepting proposals for technical presentation in the final program. Potential presenters are welcome to contact A/Prof Cheu Ruey Long at cheu@nus.edu.sg on your proposal.

ITS^{3}2004 Organising Committee

Advisors
Prof Fwa Tien Fang, National University of Singapore

Chairman
Mr Lew Yii Der, Land Transport Authority

Secretary
A/Prof Cheu Ruey Long, National University of Singapore

Treasurer
Dr Lee Der-Horng, National University of Singapore

Committee Members
Mr Raj Godhia, Mega Computing (S) Pte Ltd
Mr Chang Mook Choong, Land Transport Authority
Dr Vera Jin, CET Technologies Pte Ltd
A/Prof Michael Lam, Nanyang Technological University
Mr Sing Mong Kee, Stratech Systems Ltd
Mr Tay Yong Hong, CET Technologies Pte Ltd

Sponsored by

stratech systems limited

Supporting Organisations

Institute for Infocomm Research
Host of ITST2004

NUS
National University of Singapore

Centre for Transportation Research

ITS³2004 Preliminary Program

Day 1 – 8 July 2004 (Thursday)	
0800-0900 hrs	Registration Coffee/tea
0900-0940 hrs	**Opening Session** • Opening Address by Prof Lawrence Wong, Executive Director, I2R, Singapore. • Congratulatory Address by Dr Tadashi Shiomi, Vice President, National Institute of Information and Communications Technology, Japan. • Welcome Address by Mr Sing Mong Kee, President, ITS (Singapore). • Welcome Address by Prof Hideki Imai, Professor, University of Tokyo. • Welcome Address by Prof Lye Kin Mun, Deputy Executive Director, I2R, Singapore.
0940-1000 hrs	Coffee/tea break
1000-1230 hrs	**Keynote Address** • Dr Chin Kian Keong, Senior Manager (Transportation), Land Transport Authority, Singapore. • Mr Junji Nakatani, Assistant Director, Ministry of Public Management, Home Affairs, Posts and Communications, Japan. • Dr Mao Chiguo, Professor, National Chiao Tung University and Chairman, ITS Taiwan. **Special Session** • *IPv6 Based Network Architecture for ITS Applications*. Dr Keisuke Uehara, Keio University, Japan. • *Inter-Vehicle Communication Based on Short Range Radar*. Dr Michael Wagner, Daimler Chrysler, Germany. • *The New ITS Communication Standard – CALM and WAVE*. Mr Knut Evensen, Q-Fee ASA, Norway. • *TBA*. Mr Paul Najarian, ITS America.
1230-1330 hrs	Lunch
1330-1530 hrs	**Technical Session 1 – ITS Vision & Capability Development** • *TBA*. Mr Richard Ng, Land Transport Authority, Singapore. • *Relevance of ITS Standards for Singapore*. Mr Peter Nwee, Stratech Systems Ltd, Singapore. • *GPS/GIS Applications in Taxi and Freight Transportation*. Mr Brian Tong, CET Technologies Pte Ltd, Singapore. • *New Development in GIS & Its Potential Applications in Transportation*. Mr Harish Aitharaju, ESRI South Asia Pte Ltd, Singapore.

1530-1600 hrs	Coffee/tea break
1600-1800 hrs	**Technical Session 2 – Experience & Benefits of ITS** • *Experience in Shared-Use Vehicles in Singapore.* Mr Gan Kok Seng, Honda ICVS Pte Ltd, Singapore. • *Traffic Response to Peak Period Variable Road Pricing.* A/Prof Piotr Olszewski and Xie Litian, Nanyang Technological University, Singapore. • *User Responses to EMAS.* A/Prof Lam Soi Hoi and Mr Jin Ming, Nanyang Technological University, Singapore. • *Comparative Evaluation of PARAMICS and AIMSUN Traffic Simulation Models.* Dr Lee Der Horng, National University of Singapore.
Day 2 – 9 July 2004 (Friday)	
0900-1040 hrs	**Technical Session 3 – Future ITS Applications** • *Trip Chaining: A Dispatch Strategy to Improve Taxi Services.* Dr Wang Hao, National University of Singapore, Singapore. • *Routing Engine in ITS Applications.* Dr Xie Feng and Mr Abdul Ahad Memon, Nanyang Technological University, Singapore. • *Using Probe Vehicles for Incident Detection on Expressways.* A/Prof Cheu Ruey Long, National University of Singapore, Singapore. • *Agent-Based Traffic Signal Control.* Dr Dipti Srinivasan, National University of Singapore, Singapore.
1040-1100 hrs	Coffee/tea break
1100-1230 hrs	**Forum: *ITS Deployment and R&D Needs in the Asia Pacific*** Moderator: Prof Fwa Tien Fang, National University of Singapore, Singapore. Panel Members: • Mr Sing Mong Kee, President, ITS (Singapore). • Mr Richard Ng, Manager, Land Transport Authority, Singapore. • Dr Kennedy Chew, Deputy Chairman, Stratech Systems Ltd, Singapore. • Mr Ee Ah Hock, General Manager, NCS Pte Ltd, Singapore. • Mr Lionel Gouw, CTO, CET Technologoes Pte Ltd, Singapore.
1230-1400 hrs	Lunch
1400-1630 hrs	**Technical Tours** • Intelligent Transport Systems Centre, Land Transport Authority. • Electronic Road Pricing Control Centre, Land Transport Authority. • North East Line Operations Control Centre, SBS Transit Ltd.

TBA = To be announced.

Technical Tours

All participants are invited to the technical tour to be held on the afternoon of 9 July 2004. The visit includes the Intelligent Transport Systems Centre and Electronic Road Pricing Control Centre, and the North East Line Operations Control Centre.

❖ **Intelligent Transport Systems Centre**

The Intelligent Transport Systems Centre (ITS Centre) is the heart of all ITS being managed by the Land Transport Authority. The ITS Centre operates 24 hours a day through the year, monitoring and controlling traffic flow. It started its modest operations in 1991 by centrally controlling the Central Expressway (CTE) tunnels. Over the years, it has enlarged its role when more ITS started operating. Currently, the ITS Centre operates 2 main systems – the Expressway Monitoring and Advisory System (EMAS) and the Green Link Determining (GLIDE) System; and other systems such as Junction Electronic Eyes (J-Eyes), Electronic Regulatory Signs, Traffic.Smart, and the CTE Tunnel Monitoring System.

❖ **Electronic Road Pricing Control Centre**

Singapore is the first city in the world to implement an Electronic Road Pricing (ERP) system in September 1998. The ERP system replaces an Area Licensing Scheme (ALS), a manual road pricing system that was in placed since 1975. Visitors will be given a presentation on the ERP System that includes main topics like using ERP as an effective tool to reduce congestion and optimise road usage, the components of the ERP System and how does the ERP work. Before the end of programme, there will be a Q&A session followed by a tour of the ERP Control Centre.

❖ **North East Line Operations Control Centre**

The visit will allow for a better understanding of the North East Line Operations Control Centre. This latest mass rapid transit line has 16 underground stations and 20 km of tunnels. It is a control room located in the Sengkang Depot that is equipped with facilities to control driverless train service, power supply and environmental control systems. The primary role is to deliver a safe, efficient and reliable NEL train service.

Transportation will be provided between the symposium venue and the three sites.

Other Information

Web site of ITS (Singapore): http://www.itssingapore.org.sg

Web site of ITS[3]2004 sponsor, Stratech Systems Ltd: http://www.stratechsystems.com

Web site of supporting organization - Institute for Infocomm Research: http://www.i2r.a-star.edu.sg

Web site of supporting organization - Centre for Transportation Research, National University of Singapore: http://www.eng.nus.edu.sg/civil/C_CTR/

Web site of Land Transportation Authority, Singapore (technical tours to ITS Centre and ERP Control Centre): http://www.lta.gov.sg

Web site of SBS Transit Ltd (technical tour to North East Line Operations Control Centre): http://www.sbstransit.com.sg

Web site of 4th International Workshop on ITS Telecommunications (ITST2004): http://www.itst2004.com

Web site of symposium venue, Marina Mandarin Hotel, Singapore: http://hotels.meritus-hotels.com/meritus/marinamandarin/index.html

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REGISTRATION FORM

Fees : ITS (Singapore) Members   S$250.00 (inclusive of 5% GST)
       : Non-Members   S$300.00 (inclusive of 5% GST)

The fees include opening session, special session, ITS³2004 technical sessions, forum, technical tours, coffee/tea breaks, luncheons and ITS³2004 proceedings.

Please reserve _____ places for the above symposium and please find enclosed a crossed cheque no. _____ from _____ Bank with total amount of S$_____ payable to "**Intelligent Transportation Society (Singapore)**".

Name(s) of Participant(s)	Designation	Member
1._____	_____	Yes / No **
2._____	_____	Yes / No **
3._____	_____	Yes / No **
4._____	_____	Yes / No **
		** Please indicate

Name of Organisation : _____

Address : _____

                _____

Contact Person : _____ Email: _____

Tel No. : _____ Fax. No. : _____

Signature : _____ Date : _____

Please send application form and fees to:

        Intelligent Transportation Society (Singapore)
        c/o A/Prof Cheu Ruey Long
        Dept of Civil Engineering
        National University of Singapore
        1 Engineering Drive 2
        Singapore 119260