



THE 25TH ANNUAL



SOUTHERN AFRICAN

TRANSPORT CONFERENCE



and **EXHIBITION**



THEME

**2010: Will Transport Infrastructure and
Systems be ready?**

PATRON

The Minister of Transport

CSIR International Convention Centre (CSIR ICC)

Pretoria, South Africa

10 to 13 July 2006

and associated:

• **5th South Africa-China Transport Technology Forum**

“Early Bird” registration by 30 June 2006

Issued April 2006

**Final Announcement, Provisional Programme
and Registration Form**

CONTACT DETAILS

CORRESPONDENCE AND ENQUIRIES : RETURN OF REGISTRATION FORMS

CONFERENCE SECRETARIAT

c/o Conference Planners
P O Box 36782
Menlo Park
0102

Attention: Ms Ammie Wissing
Tel: +27 (0)12 348-4493
Fax: +27 (0)12 348-1563
E-mail: wissing@iafrica.com
Webpage:
<http://www.up.ac.za/academic/civil/satc.html>

ORGANISING COMMITTEE

Cameron, Mr Bill
Davis, Mr Ian
De Swardt, Mr Laumi
De Villiers, Mr Gerard
Del Mistro, Prof Romano
Gorringer, Mr Kim
Heydenrych, Mr André
Mashiri, Mr Mac
Mnguni, Ms Hellen
Pretorius, Dr Pieter
Rabali, Mr Peter
Rauch, Mr Johann
Ribbens, Dr Hubrecht
Venter, Mr Hannes
Verhaeghe, Mr Benoit
Visser, Prof Alex (Chairman)
Wang, Mr Yuchen

Watt, Capt Brian
Wissing, Ms Ammie

TRC Africa (Pty) Ltd
Road Freight Association
Khuthele Projects
Supply Chain Advantage (Pty) Ltd
University of Cape Town
SAFAIR
Consultant
CSIR
Department of Transport
ITS (Pty) Ltd
Sindawonye (Pty) Ltd
Arcus Gibb (Pty) Ltd
CSIR
Tshwane University of Technology
CSIR
University of Pretoria
SA-China Transport Co-operation Center
(SACTCC)
Maritime Consultant
Conference Planners

INVITATION

Everyone in any way connected with transport is invited to register for the conference! It will be of particular interest to: municipal and provincial employees, policy and decision-makers, academics, researchers, students and professionals active in the planning, construction, manufacturing, logistics, operation and safety of passenger and freight transport, road traffic, rail, maritime and aviation. End-users will also find the conference of interest.

SYNOPTIC PROGRAMME

It is only possible to register for one session per day as each session lasts from 08:30 to 16:30. However, once at the conference, delegates may move between sessions, space permitting.

DATE	SESSION NO	EVENT
Monday, 10 July		Opening Session
	1A	Provincial and Municipal Transport Issues
	1B	Infrastructure Engineering
	1C	Public Transport
	1D	Aviation / Maritime
Tuesday, 11 July	2A	Transport Planning
	2B	Infrastructure Engineering
	2C	Capacity Building
	2D	Traffic Engineering
Wednesday, 12 July	3A	Traffic Management and Safety
	3B	Rail and Transport Logistics
	3C	5th SA-China Transport Technology Forum
Thursday, 13 July	4A	SAICE Course - ITE: Professional Traffic Operations Engineer (PTOE)
	4B	CAEA Workshop and site visits on APT/Infrastructure/Transport (by invitation)



COCKTAIL PARTY

There will be a cocktail party at the CSIR International Convention Centre (CSIR ICC) after the day's proceedings on **Monday, 10 July 2006**. The SATC Award for the "Best Paper presented at the Conference" and the SAICE's Transportation Division Award for the "Best Paper by a Young Professional" will be announced at this function. Delegates registered for any of the four days of the conference are invited to attend and are requested to indicate their attendance on the registration form.

25th ANNIVERSARY DINNER

The 25th anniversary of SATC will be celebrated with a special dinner in the Amber Room of the CSIR ICC at 18:45 for 19:00 on Tuesday, 11 July 2006. Dr Roelof Botha will present an interesting after-dinner speech.

Delegates are invited to attend the dinner. It is unfortunately not possible to accommodate any companions. The cost for the dinner will be R150,00 per person. Please complete the relevant section on the registration form if you wish to join in an evening of good food, wine and music.

ACCOMMODATION AND TRANSPORT

HOTELS

	HOTEL 224 596 Schoeman St Arcadia (cnr Leyds and Schoeman Streets) Tel: 012 440-5281 Fax: 012 440-3063 E-mail: hotel224@satis.co.za	TOWN LODGE MENLO PARK Atterbury Rd Menlo Park Tel: 012 348-2711 Fax: 012 348-2820 E-mail: tlmenlo.resv@citylodge.co.za	VILLA VIA LUXURY SUITE HOTEL Cnr Pretorius and Orient Streets, Arcadia Tel: 012 342-9130 Fax: 012 342-9131 E-mail: villavia@sentechsa.co.za
Single room	R295	R460	R625 per room per night (single or double)
Double room	R380	R520	
	Rates include buffet breakfast	English breakfast R58 per person	Rate includes English breakfast



The above hotels are recommended for accommodation during the conference. Delegates are responsible for their own arrangements and it is recommended that they book their accommodation as soon as possible to ensure a booking at the hotel of their choice.

The organisers will arrange a courtesy bus to transport delegates from the above hotels to the CSIR ICC in the morning and back after the day's proceedings. **Delegates wishing to make use of the courtesy bus should tick the relevant section on the registration form.**

CHINESE DELEGATION

For information and assistance regarding registration details for the conference, review/translation of papers and technical matters before, during and after the conference, including visas, hotel accommodation, meals, transport and sightseeing logistics, please contact: Mr K Lie, HKSJ Transport and Conference cc, tel/fax: +27 12 804-2442, mobile: +27 83 282-7669, e-mail: irislie@worldonline.co.za and sanyuan@hksanyuan.com (English and Chinese).

EXHIBITION

An exhibition, a showcase for all related industries, will run concurrently with the conference from Monday, 10 to Wednesday, 12 July. Exhibition space (3m x 3m) is available on a first come, first served basis. Organisations wishing to exhibit are requested to indicate their interest on the registration form. A floor plan for the exhibition appears on the inside back cover.

PAPERS ON CD-ROM

Please note that papers presented at SATC 2006 will be issued on CD-ROM and the cost is included in the delegate registration fee. Delegates attending the course and workshop on Thursday will also receive the CD-ROM. Extra copies of the CD-ROM will be available at a cost of R85,00 each. A book of abstracts will also be distributed to all delegates at registration.

REGISTRATION AND PAYMENT

REGISTRATION

Registration is per day. This four-day conference consists of an opening session, three plenary and eleven parallel sessions (Monday to Wednesday)



as well as a course and a workshop (Thursday). All sessions and the course and workshop take place over a full day and it is therefore possible to register for only one session per day. However, once at the conference, delegates are welcome to move between sessions, space permitting.

The enclosed "Registration Form" must be completed and sent to the Conference Secretariat with the appropriate remittance. A separate form must be submitted for each delegate. Organisations wishing to register more than one delegate are kindly requested to photocopy the blank registration form. It is suggested that delegates retain a copy of their completed form.

VAT REGISTRATION NUMBER: Legislation requires that from 1 March 2005 VAT numbers (if applicable) of organisations appear on the invoices issued. Therefore please ensure that your organisation's VAT number is given on your registration form for entering on the invoice to be issued in respect of your registration fee.

FEES

Registration fees will be payable in advance by crossed cheque in favour of **SA TRANSPORT CONFERENCE** or by direct bank deposit. It is not possible to pay by credit card. If time is short, forms may be faxed and the registration fees paid at the conference (PLEASE NOTE THAT IN SUCH CASES THE LATE REGISTRATION FEES WILL APPLY).

Delegates wishing to pay by direct deposit into the conference bank account need to phone or e-mail the Conference Secretariat (details on inside front cover). **They will be given details of the conference bank account after giving their name, the amount they intend to pay, date of payment, name of their bank and the branch where the deposit will be made.** This will help the organisers to identify payments and credit the correct delegate(s).



Fees include 14% VAT – a VAT invoice will be issued on receipt of payment	"EARLY BIRD" Registration fee <u>PAID BEFORE</u> 30 June 2006	LATE REGISTRATION Registration fee <u>PAID AFTER</u> 30 June 2006 (including registrations and payments made at the conference)
CONFERENCE SESSIONS	R1 100 per person per day	R1 300 per person per day
SAICE WORKSHOP	R1 710 per person	R1 710 per person
PRESENTING AUTHOR on day of presentation only	R850 per person per day	R950 per person per day
BONA FIDE FULL-TIME STUDENT	R500 per student per day	R600 per student per day

THE REGISTRATION FEE INCLUDES:

- Attendance on the registered day(s). All registered delegates are invited to attend the Opening Session on Monday, 10 July.
- Lunch and refreshments on the day(s) of attendance.
- Attendance at the cocktail party on Monday, 10 July - delegates registered on any of the four days of the conference are invited to attend.
- Attendance at the 25th Anniversary Dinner on payment of R150 per person.
- Transport between the appointed hotels and the conference venue.
- A briefbag containing conference documentation.
- A complete set of the written papers (received in time for printing) on CD-ROM and a printed book of abstracts.

CONFIRMATION

All delegates registered by close of business on Wednesday, 5 July 2006 will receive confirmation of their registration by e-mail. Please ensure that your current e-mail address is given on the registration form.

CANCELLATION

Notification of cancellation received, in writing, prior to 30 June 2006 will be subject to a 25% handling fee and processed after the conference. Delegates may be substituted at any stage. No refunds will be made on cancellations received after 30 June 2006.

DELEGATES ARE REMINDED THAT A FAXED REGISTRATION FORM IS TAKEN AS A FIRM COMMITMENT AND IN THE EVENT OF NON-ATTENDANCE, THE DELEGATE WILL BE HELD RESPONSIBLE FOR PAYMENT OF THE FULL ACCOUNT.
No payment should be sent without an accompanying registration form



BACKGROUND OF PLENARY SPEAKERS

IRWIN, Prof Lynne, P.E., USA

Professor Irwin has served as the Director of the Cornell Local Roads Program for 33 years. His programme provides technical assistance and training for more than 1600 units of local government throughout the State of New York. It is part of a national network of Local Technical Assistance Programs across the United States.



Prof Irwin holds a Bachelors and Masters degree in civil engineering from the University of California at Berkeley, and a Ph.D. degree in civil engineering from Texas A&M University. His research interests are in the structural evaluation of pavements and the safe design of low-volume roads.

LITMAN, Mr Todd, Canada



Todd Litman is founder and executive director of the Victoria Transport Policy Institute, an independent research organisation dedicated to developing innovative solutions to transport problems. His work helps to expand the range of impacts and options considered in transportation decision-making, improve evaluation techniques, and make specialised technical concepts accessible to a larger audience. His research is used worldwide in transport planning and policy analysis.

Mr Litman is author of the *Online TDM Encyclopedia*, a comprehensive Internet resource for identifying and evaluating mobility management strategies. He has worked on numerous studies that evaluate the costs and benefits of various transportation services and activities. He authored *Transportation Cost and Benefit Analysis: Techniques, Estimates and Implementations*, a comprehensive study of transport impacts, which provides cost and benefit information in an easy-to-apply format.



Mr Litman has written or co-written several guides and technical manuals dealing with transport and land use planning issues. He is active in several professional organisations, including the Institute of Transportation Engineers, the Transportation Research Board (a section of US National Academy of Sciences) and the Centre for Sustainable Transportation. He is a member of the Editorial Advisory Board of *Transportation Research A*, a professional journal.

PARK, Dr Young Wook, Ph.D, Korea

Dr Park was born in Seoul, Korea in 1956. He graduated from Virginia Polytechnic Institute and State University in 1990 with a Ph.D degree in the field of system engineering. He has worked on numerous communication and transport engineering design and planning projects in national government research institutions for more than 20 years. From 2003, he is professor in the Network Engineering Department of Youngsan University, Busan, Korea. Since early 2005, he is the head of the Transport Technology Center of Korea Smart Card Corporation, established by Seoul Metro Government.

SESSIONS

(Subject to change)

MONDAY, 10 JULY

08:00 - 09:00	REGISTRATION
	OPENING SESSION
09:00 - 09:05	INTRODUCTION - Prof Alex Visser, Conference Chairman
09:05 - 09:15	WELCOME Mr Peter Rabali, Chairman, ATC Company
09:15 - 09:45	OPENING ADDRESS - Mr Jeff Radebe, Minister of Transport
09:45 - 10:30	PLENARY ADDRESS: BUS REFORM PROJECT IN SEOUL AND INFORMATION TECHNOLOGY FOR PUBLIC TRANSPORTATION SYSTEM - Dr Young Wook Park , Transport Technology Center, Korea Smart Card Corporation, Korea
10:30 - 11:00	REFRESHMENTS

**DELEGATES BREAK INTO PARALLEL SESSIONS AFTER
THE REFRESHMENTS BREAK**



MONDAY, 10 JULY

08:00 - 09:00	REGISTRATION
08:30	Briefing for presenters and chairmen in their respective venues
09:00 - 10:30	OPENING SESSION
10:30 - 11:00	REFRESHMENTS
SESSION 1A : PROVINCIAL AND MUNICIPAL TRANSPORT ISSUES Sub-theme - Plans and readiness for the 2010 World Cup Please note this is a presentation and discussion session. No papers will be provided. It is intended to have strong participation from Provincial and Municipal Councillors Copies of presentations will be included in the conference CD.	
11:00 - 11:45	CREATING A POSITIVE PUBLIC TRANSPORT LEGACY FROM THE 2010 FIFA WORLD CUP - M Mokonyama , Department of Transport
11:45 - 12:30	Discussion: FIFA WORD CUP - OPPORTUNITY OR THREAT - CONTRIBUTIONS FROM PROVINCIAL AND MUNICIPAL DELEGATES ABOUT THE PROCESS OF BUILDING THE PUBLIC TRANSPORT LEGACY: PROGRESS AND FUTURE PROSPECTS
12:30 - 13:30	LUNCH
13:30 - 14:00	WORLD CUP INITIATIVES IN JOHANNESBURG: IMPLEMENTING THE ITP - R A Stanway , Director Transport: City of Johannesburg
14:00 - 14:30	Discussion: WHAT WE CAN LEARN FROM THE JOHANNESBURG EXAMPLE
14:30 - 15:00	REFRESHMENTS
15:00 - 15:20	WORLD CUP PROJECTS IN ETHEKWINI METROPOLITAN MUNICIPALITY - V Boloyi , CEO: Ethekwini Transport Authority
15:20 - 16:00	WORLD CUP PROJECTS IN NELSON MANDELA METROPOLITAN MUNICIPALITY - G Pryce-Lewis , Director Transport: Nelson Mandela Metropolitan Municipality
16:00 - 16:30	Discussion: ACTIONS NECESSARY FOR OTHER HOST CITIES TO ACCELERATE THEIR PUBLIC TRANSPORT PROGRAMMES
17:00 - 18:30	COCKTAIL PARTY SPONSORED BY THE CEMENT AND CONCRETE INSTITUTE
18:30	BUS DEPARTS FOR APPOINTED HOTELS



MONDAY, 10 JULY

08:00 - 09:00	REGISTRATION
08:30	Briefing for presenters and chairmen in their respective venues
09:00 - 10:30	OPENING SESSION
10:30 - 11:00	REFRESHMENTS
SESSION 1B : INFRASTRUCTURE ENGINEERING	
11:00 - 11:30	INSIGHTS INTO PAVEMENT MATERIAL DENSITY AND STRENGTH - P F Savage , University of Pretoria
11:30 - 12:00	PREDICTION OF SUBSIDENCE BY USING BACK PROPAGATION (BP) NEURAL NETWORK - Y-k Guo , Changsha University of Science and Technology, China
12:00 - 12:30	STUDY OF THE EFFECTS OF STRUCTURE ON THE PERFORMANCE OF WEAKLY-WEATHERED STONE GRAVEL - O-m Xu , Chang'an University, China
12:30 - 13:30	LUNCH
13:30 - 14:00	TOWARDS A BETTER UNDERSTANDING OF SOLUBLE ABSORBED WATER DISPLACING IONIC ADDITIVES - P F Savage , University of Pretoria
14:00 - 14:30	RESEARCH ON HYDRATION AND MECHANICAL PERFORMANCE OF CEMENT PAVEMENT MICRO-CRACK MENDING MATERIAL OF POLYMER MODIFIED FINE CEMENT - A Shen , Chang'an University, China
14:30 - 15:00	REFRESHMENTS
15:00 - 15:30	STUDY ON POROUS CONCRETE CONCEPT PROPERTIES USED IN AIRPORTS RUNWAYS - J V Merighi, R M Fortes and A Bandeira, Mackenzie Presbyterian University, Brazil
15:30 - 16:00	ASSESSMENT OF GROUTED GFRP TUBES AS DOWEL BAR ALTERNATIVES - D-y Wang , South China University of Technology, China
16:00 - 16:30	STUDY ON OPTIMUM STRUCTURE OF CEMENT CONCRETE PAVEMENT FOR GUANGDONG PROVINCE - Y-z Pan , Guangdong Communications, China
17:00 - 18:30	COCKTAIL PARTY SPONSORED BY THE CEMENT AND CONCRETE INSTITUTE
18:30	BUS DEPARTS FOR APPOINTED HOTELS



MONDAY, 10 JULY

08:00 - 09:00	REGISTRATION
08:30	Briefing for presenters and chairmen in their respective venues
09:00 - 10:30	OPENING SESSION
10:30 - 11:00	REFRESHMENTS
SESSION 1C : PUBLIC TRANSPORT	
11:00 - 11:30	THE POTENTIAL OF ELECTRIC BICYCLES - TO PROVIDE LOW COST TRANSPORT, MOBILITY AND ECONOMIC EMPOWERMENT IN SOUTH AFRICA - I D de Vries , Cape Peninsula University of Technology and D B Jenman
11:30 - 12:00	TOWARDS A SAFER MINIBUS TAXI INDUSTRY IN SOUTH AFRICA - R Govender and D Allopi, Durban Institute of Technology
12:00 - 12:30	THE UCT STUDENT AND STAFF TRANSPORT SYSTEM - W R Duff-Riddell , E J Robertson, Ninham Shand Consulting Services and G de Wet
12:30 - 13:30	LUNCH
13:30 - 14:00	COPING WITH DEMAND FOR URBAN PASSENGER TRANSPORT IN ZIMBABWE: CHALLENGES AND OPTIONS - T C Mbara , University of Zimbabwe, Zimbabwe
14:00 - 14:30	THE IMPROVEMENT OF PUBLIC TRANSPORT OPERATIONAL PERFORMANCE: THE CASE FOR GAUTENG PROVINCE, SOUTH AFRICA - R O Cloete and M Vanderschuren, University of Cape Town
14:30 - 15:00	REFRESHMENTS
15:00 - 15:30	RURAL PUBLIC TRANSPORTATION - AN ON-BOARD SURVEY OF TRANSIT USERS IN RURAL ALABAMA COUNTIES: A PILOT STUDY - J O Oluwoye , Alabama A&M University, USA
15:30 - 16:00	DEVELOPING THE GAUTENG INTER-GOVERNMENTAL TRANSPORT CHARTER: COMBINING POLITICS, PROCESS AND INTELLECTUAL ENDEAVOUR - L Seftel and M Somaru, Department of Public Transport, Roads and Works
17:00 - 18:30	COCKTAIL PARTY SPONSORED BY THE CEMENT AND CONCRETE INSTITUTE
18:30	BUS DEPARTS FOR APPOINTED HOTELS



MONDAY, 10 JULY

08:00 - 09:00	REGISTRATION
08:30	Briefing for presenters and chairmen in their respective venues
09:00 - 10:30	OPENING SESSION
10:30 - 11:00	REFRESHMENTS
SESSION 1D : AVIATION / MARITIME	
11:00 - 11:20	THE STRATEGIES AND ACTIONS THAT THE AIR TRAFFIC AND NAVIGATION SERVICES COMPANY (ATNS) WILL IMPLEMENT TO PREPARE THE AIRSPACE FOR 2010 AND BEYOND - S Radcliffe , ATNS
11:20 - 11:40	THE AVIATION SECURITY CHALLENGES FACING SOUTH AFRICA IN THE LEAD UP TO 2010 - A Olivier , Aviation Security Consultant
11:40 - 12:00	WHAT SOUTH AFRICA NEEDS TO DO TO IMPLEMENT THE PROVISIONS OF THE CAPE TOWN CONVENTION ON THE INTERNATIONAL INTERESTS IN MOBILE EQUIPMENT, 2001 - K Gorringe , Safair
12:00 - 12:20	THE PREPARATIONS THAT THE AIRPORTS COMPANY OF SOUTH AFRICA (ACSA) ARE MAKING AT JOHANNESBURG INTERNATIONAL AIRPORT FOR THE SOCCER WORLD CUP IN 2010 - E Kriel , ACSA
12:20 - 12:30	Discussion
12:30 - 13:30	LUNCH
13:30 - 14:00	MARITIME TRANSPORT IN THE CONTEXT OF THE MARITIME SECTOR - H D Deacon , Regional Maritime Projects
14:00 - 14:30	CAPACITY BUILDING FOR COUNTRIES IN TRANSITION - N Guy , Independent Maritime Consultant
14:30 - 15:00	REFRESHMENTS
15:00 - 15:30	THE POTENTIAL OF MARITIME CORRIDORS IN SADC - E P Groenewald , Regional Maritime Projects
15:30 - 16:00	EVENTS LEADING TO, AND THE IMPLEMENTATION OF MARITIME SECURITY - B Watt , Maritime Consultant
16:00 - 16:30	REGULATORY AND IMPLEMENTATION CHALLENGES IN IMPLEMENTING MARITIME SECURITY IN SOUTH AFRICA - A Maswanganye , Department of Transport
16:30 - 18:00	COCKTAIL PARTY SPONSORED BY THE CEMENT AND CONCRETE INSTITUTE
18:00	BUS DEPARTS FOR APPOINTED HOTELS



TUESDAY, 11 JULY

08:00 - 08:30	REGISTRATION
08:00	Briefing for presenters and chairmen in their respective venues
08:30 - 09:25	PLENARY ADDRESS : TRAINING - THE WAY TO SUCCESS - Prof Lynne Irwin, Cornell University, USA
PLENARY BREAKS UP INTO PARALLEL SESSIONS	
SESSION 2A : TRANSPORT PLANNING	
09:30 - 10:00	METHODOLOGICAL PROBLEMS IN THE ANALYSIS OF CHANGING HABITUAL TRAVEL BEHAVIOUR OVER TIME - R Behrens and R Del Mistro, University of Cape Town
10:00 - 10:30	EVIDENCE OF 'CHURNING' TRAFFIC STREAMS IN CAPE TOWN: IMPLICATIONS FOR TRAVEL DEMAND MANAGEMENT IMPLEMENTATION - R Del Mistro and R Behrens, University of Cape Town
10:30 - 11:00	REFRESHMENTS
11:00 - 11:30	THE N1 CORRIDOR CAPE TOWN: AN INTEGRATED MULTIMODAL TRANSPORT STRATEGY FOR THE CORRIDOR - A Frieslaar and J Jones, HHO Africa Infrastructure Engineers
11:30 - 12:30	Discussion: THE DISCUSSION WILL BE CENTRED ON THE THREE PAPERS DELIVERED BY THE PRESENTERS FROM CAPE TOWN
12:30 - 13:30	LUNCH
13:30 - 14:00	THE ROLE OF TRANSPORT PLANNING IN THE QUEST FOR SUSTAINABLE LAND USE - H Stapelberg , Free State Department of Local Government and Housing
14:00 - 14:30	'TRANSIT ORIENTED DEVELOPMENT': A STRATEGIC INSTRUMENT FOR SPATIAL RESTRUCTURING AND PUBLIC TRANSPORT SYSTEM ENHANCEMENT IN SOUTH AFRICAN CITIES? - P Wilkinson , University of Cape Town
14:30 - 15:00	REFRESHMENTS



TUESDAY, 11 JULY

15:00 - 15:30	UNRAVELLING TRAVEL COSTS: TOWARDS IMPROVED DATA COLLECTION AND TRANSPORT EXPENDITURE POLICY INDICATORS - R Behrens , University of Cape Town
15:30 - 16:00	HARNESSING INNOVATION IN PASSENGER TRANSPORT RESEARCH IN AFRICA - M Mokonyama , CSIR - Passenger Transport
16:00 - 16:30	Discussion
16:30	BUS DEPARTS FOR APPOINTED HOTELS
18:45 for 19:00	25th ANNIVERSARY DINNER - AMBER ROOM (Conference dining room)



TUESDAY, 11 JULY

08:00 - 08:30	REGISTRATION
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	PLENARY BREAKS UP INTO PARALLEL SESSIONS
SESSION 2B : INFRASTRUCTURE ENGINEERING	
09:30 - 10:00	FEASIBILITY STUDY TO DETERMINE THE POTENTIAL FOR THE PRIVATIZATION OF ROUTINE ROAD MAINTENANCE IN SWAZILAND - I Fakudze , Ministry of Public Works and Transport, Swaziland, E Horak and G Basson
10:00 - 10:30	SUSTAINABILITY AND FUTURE OF SWAZILAND'S ROAD INFRASTRUCTURE - B B Dlamini , Ministry of Public Works and Transport, Swaziland, E Horak and G Basson
10:30 - 11:00	REFRESHMENTS
11:00 - 11:30	ESTIMATING TOOLS FOR INFRASTRUCTURE PROJECTS - S Saroop , Kwezi V3 Engineers and D Allopi
11:30 - 12:00	PERFORMANCE OF LABOUR-BASED SURFACINGS - I Cassiem , CSIR Built Environment
12:00 - 12:30	A HIGH-ACCURACY CALIBRATION METHOD FOR THICKNESS MEASUREMENTS OF ASPHALT PAVEMENT USING GROUND PENETRATING RADAR - X-t Li , South China University of Technology, China
12:30 - 13:30	LUNCH
13:30 - 14:00	EXPERIMENTAL STUDY AND NUMERICAL SIMULATION ANALYSIS ON RUTTING PROBLEM OF ASPHALT PAVEMENT - W Xu, Z Li and X-n Zhang, South China University of Technology, China
14:00 - 14:30	A THEORETICAL PRECISE SOLUTION ON PREDICTING PERMANENT DEFORMATION OF ASPHALT PAVEMENTS - L Zhang , South China University of Technology, China
14:30 - 15:00	REFRESHMENTS



TUESDAY, 11 JULY

15:00 - 15:30	COMMONWEALTH OF VIRGINIA'S (USA) IMPLEMENTATION OF STONE MATRIX ASPHALT - T M Clark , Virginia Department of Transportation and K K McGee, USA
15:30 - 16:00	STUDY ON QUANTIFICATIONAL EVALUATION AND CORRELATION OF GRADATIONAL SEGREGATION IN ASPHALT MIXTURE - K Xu , South China University of Technology, China
16:00 - 16:30	THE PERFORMANCE AND APPLICATION OF DIATOMITE AND WASTE RUBBER COMPOUND MODIFIED ASPHALT - D-i Liu , Changsha University of Science and Technology, China
16:30	BUS DEPARTS FOR APPOINTED HOTELS

18:45 for 19:00	25th ANNIVERSARY DINNER - AMBER ROOM (Conference dining room)
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08:30 - 09:25	PLENARY ADDRESS : TRAINING - THE WAY TO SUCCESS - Prof Lynne Irwin, Cornell University, USA
	PLENARY BREAKS UP INTO PARALLEL SESSIONS
SESSION 2C : CAPACITY BUILDING	
09:30 - 10:00	THE SIGNIFICANCE AND CHALLENGES OF BUILDING RESEARCH CAPACITY IN THE TRANSPORT SECTOR IN SOUTH AFRICA - J Mzalia , Department of Transport
10:00 - 10:30	CHALLENGES FOR CAPACITY BUILDING IN THE CIVIL ENGINEERING PROFESSION FOR 2010 - A Lawless , A Lawless Associates
10:30 - 11:00	REFRESHMENTS
11:00 - 11:30	GENDER DIMENSIONS IN CAPACITY BUILDING (IN THE TRANSPORT SECTOR) FOR 2010 - Office on the Status of Women - The Presidency
11:30 - 12:00	SKILLS AUDIT FINDINGS AND KEY RECOMMENDATIONS FOR INFRASTRUCTURE AND SYSTEMS CHALLENGES FOR 2010 - TETA and The Construction CETA
12:00 - 12:30	CAPACITY BUILDING IN THE TRANSPORT SECTOR - A NEPAD VIEW - G Punungwe , NEPAD
12:30 - 13:30	LUNCH
13:30 - 14:00	GEARING UP FOR THE 2010 SOCCER WORLD CUP: CIVIL AVIATION
14:00 - 14:30	CAPACITY BUILDING IN THE MARITIME INDUSTRY: STRENGTHENING EXPORT-LED GROWTH
14:30 - 15:00	REFRESHMENTS
15:00 - 15:30	COUNTING DOWN TO THE 2010 SOCCER WORLD CUP: FAST-TRACKING CAPACITY BUILDING - SARCC/Metro Rail
15:30 - 16:00	CAPACITY BUILDING AND DEVELOPMENT FOR TRANSPORT AND INFRASTRUCTURE DEVELOPMENT: ARE WE READY FOR 2010? - A Z Soko , Eastern Cape Department of Roads and Transport
16:00 - 16:30	Discussion and way forward
16:30	BUS DEPARTS FOR APPOINTED HOTELS
18:45 for 19:00	25th ANNIVERSARY DINNER - AMBER ROOM (Conference dining room)



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	PLENARY BREAKS UP INTO PARALLEL SESSIONS
SESSION 2D : TRAFFIC ENGINEERING	
09:30 - 10:00	ROUNDABOUTS - AN UPDATED INTERNATIONAL PERSPECTIVE - J C Krogscheepers, ITS (Pty) Ltd
10:00 - 10:30	RIGHT TURNS AT INTERSECTIONS: ARE THERE SAFER ALTERNATIVES? - R C Pyke, Stewart Scott International, J D Sampson and K G Schmid
10:30 - 11:00	REFRESHMENTS
11:00 - 12:30	PROPOSED POLICY FOR ENGINEERING SERVICE CONTRIBUTIONS TO MUNICIPAL ROAD INFRASTRUCTURE IN GAUTENG - K G Schmid, Gauteng Department of Public Transport, Roads and Works and F van Rensburg
12:30 - 13:30	LUNCH
13:30 - 14:00	TRAFFIC SIGNAL MASTER PLAN FOR EKURHULENI - A PRACTICAL APPROACH - B Deminey, Ekurhuleni Metropolitan Municipality, J Coetzee and S C van As
14:00 - 14:30	FLOW CHARACTERISTICS OF SOUTH AFRICAN FREEWAYS - S C van As, Independent Traffic Engineer and A van Niekerk
14:30 - 15:00	REFRESHMENTS
15:00 - 15:30	EVALUATING PARKING REQUIREMENTS IN SOUTH AFRICA WITH SPECIFIC REFERENCE TO REGIONAL SHOPPING CENTRES - G Hitge and L de V Roodt
15:30 - 16:00	PROJECT TO RESTRICT ACCESS BY HEAVY VEHICLES DURING A.M. PEAK TRAFFIC FLOW ON THE FIELD'S HILL SECTION OF THE M13 (KWAZULU NATAL) - S C M Majola and M G Barron, Kwa-Zulu Natal Department of Transport, Durban Region
16:00 - 16:30	DISCUSSION
16:30	BUS DEPARTS FOR APPOINTED HOTELS
18:45 for 19:00	25th ANNIVERSARY DINNER - AMBER ROOM (Conference dining room)



WEDNESDAY, 12 JULY

08:00 - 08:30	REGISTRATION
08:00	Briefing for presenters and chairmen in their respective venues
08:30 - 09:25	PLENARY ADDRESS: HOW TO EVALUATE TRAVEL DEMAND PROGRAMS TAKING INTO ACCOUNT ITS MULTIPLE BENEFITS - Mr Todd Litman , Victoria Transport Policy Institute, Canada
	PLENARY BREAKS UP INTO PARALLEL SESSIONS
SESSION 3A : TRAFFIC MANAGEMENT AND SAFETY	
09:30 - 10:00	FATAL ROAD CRASHES, CONTRIBUTORY FACTORS AND THE LEVEL OF LAWLESSNESS - G Botha , Road Traffic Management Corporation and H van der Walt
10:00 - 10:30	ACCIDENT PREVENTION AND EMERGENCY RESCUE SYSTEMS IN EXPRESSWAY TUNNELS IN CHINA - G Gao , Chang'an University, B Yan, S Zhang and Z Ma, China
10:30 - 11:00	REFRESHMENTS
11:00 - 11:30	AARTO - THE KEY TO ENSURING SUCCESSFUL ROAD SAFETY SYSTEMS - G A Kelly , Department of Transport
11:30 - 12:00	PROJECT PRIORITIZATION FOR SAFER JOURNEYS TO SCHOOL IN THE CAPE WINELANDS DISTRICT - L Pretorius, Z Tofie and B Kurtz, Cape Winelands District Municipality
12:00 - 12:30	2010 - THE NEED TO PROVIDE SAFE AND SECURE NON-MOTORIZED TRANSPORT INFRASTRUCTURE AND AMENITIES - H Ribbens and L Gamoo , CSIR
12:30 - 13:30	LUNCH
13:30 - 14:00	THE MAIN CHALLENGES TO ROAD SAFETY MANAGEMENT IN SOUTH AFRICA IN 2006 - P R Venter , ITS (Pty) Ltd
14:00 - 14:30	THE URGENT NEED FOR SPECIALIZED TRAINING IN MOTOR VEHICLE ACCIDENT INVESTIGATION AND RECONSTRUCTION IN SOUTH AFRICA - J B Joubert and J A Tanta, Stellenbosch Traffic Services
14:30 - 15:00	REFRESHMENTS
15:00 - 15:30	EXECUTIVE COACHING.... FOR TRAFFIC LAW ENFORCEMENT OFFICIALS - K Venter , CSIR Knowledge Services
15:30 - 16:00	INTRODUCING LEARNER'S LICENCE TESTING AT SECONDARY SCHOOL LEVEL - N Sunker , Mangosuthu Technikon and D Allopi
16:00 - 16:30	WAYS OF REDUCING ACCIDENTS ON SOUTH AFRICAN ROADS - I Ojungu-Omaru and M J W A Vanderschuren, University of Cape Town
16:30	BUS DEPARTS FOR APPOINTED HOTELS



WEDNESDAY, 12 JULY

08:00 - 08:30	REGISTRATION
08:00	Briefing for presenters and chairmen in their respective venues
08:30 - 09:25	PLENARY ADDRESS: HOW TO EVALUATE TRAVEL DEMAND PROGRAMS TAKING INTO ACCOUNT ITS MULTIPLE BENEFITS - Mr Todd Litman, Victoria Transport Policy Institute, Canada
	PLENARY BREAKS UP INTO PARALLEL SESSIONS
SESSION 3B : RAIL AND TRANSPORT LOGISTICS	
09:30 - 10:00	IMPLEMENTING THE NEW NATIONAL FREIGHT LOGISTICS STRATEGY FOR SOUTH AFRICA - R Khan , Department of Transport
10:00 - 10:30	NATIONAL AND REGIONAL CORRIDORS - M Vilana , Department of Transport
10:30 - 11:00	REFRESHMENTS
11:00 - 11:30	CHALLENGES OF THE NEW NATIONAL FREIGHT LOGISTICS STRATEGY FOR SOUTH AFRICA - G de Villiers , SCA and A Shaw
11:30 - 12:00	TEN QUESTIONS FOR SOUTH AFRICAN RAILWAY STAKEHOLDERS - R D van der Meulen , Railway Corporate Strategy cc
12:00 - 12:30	THE CHARACTERISTICS OF FREIGHT TRANSPORT IN THAILAND - R Choiejit , Srinakharinwirot University and R Teungfung, Thailand
12:30 - 13:30	LUNCH
13:30 - 14:00	REVISITING THE ROAD VERSUS RAIL DEBATE - J van der Mescht , Nelson Mandela Metropolitan University
14:00 - 14:30	SOUTH AFRICAN LOGISTICS INDUSTRY UPDATE - G de Villiers , Supply Chain Advantage (Pty) Ltd
14:30 - 15:00	REFRESHMENTS
15:00 - 15:30	TRENDS IN WAREHOUSING AND DISTRIBUTION - M Bailey , Industrial Logistic Systems
15:30 - 16:00	SUPPLIER PARKS FOR THE AUTOMOTIVE INDUSTRY - B Manilal , Automotive Industry Development Cluster
16:00 - 16:30	STUDY ON THE MODE OF URBAN RAILWAY TRAFFIC OPERATION AND MANAGEMENT IN CHINA - G Gao , B Yan, S Zhang and Z Ma, Chang'an University, China
16:30	BUS DEPARTS FOR APPOINTED HOTELS



WEDNESDAY, 12 JULY

08:00 - 08:30	REGISTRATION
08:00	Briefing for presenters and chairmen in their respective venues
08:30 - 09:25	PLENARY ADDRESS: HOW TO EVALUATE TRAVEL DEMAND PROGRAMS TAKING INTO ACCOUNT ITS MULTIPLE BENEFITS - Mr Todd Litman , Victoria Transport Policy Institute, Canada
	PLENARY BREAKS UP INTO PARALLEL SESSIONS
SESSION 3C : 5th SA-CHINA TRANSPORT TECHNOLOGY FORUM	
09:30 - 10:00	WELCOME by South African Academy of Engineering (SAAE) and Chinese Embassy
10:00 - 10:30	Invited speaker from China
10:30 - 11:00	REFRESHMENTS
11:00 - 11:30	Invited speaker from South Africa
11:30 - 12:00	THE ANALYSIS AND PROPOSAL ON EARLY CRACKS OF 13m PRE-CAST REINFORCED CONCRETE HOLLOW SLAB MEMBERS - J Huang , R Wang and L Liu, South China University of Technology, China
12:00 - 12:30	INTEGRATED AND OPTIMIZATION MANAGEMENT OF MULTI-CATEGORY TRANSPORTATION INFRASTRUCTURES BASED ON GENETIC ALGORITHM - X Bai , S-n Zeng and L-j Sun, Tongji University, China
12:30 - 13:30	LUNCH
13:30 - 14:00	ANALYSIS ON THE TRAFFIC PROBLEMS AND RESEARCH ON THE TRAFFIC STRATEGY IN CLUSTER URBAN DEVELOPMENT - D Zhang and W Jin, South China University of Technology, China
14:00 - 14:30	THE RESEARCHES OF RISK IDENTIFICATION AND EVALUATION SYSTEM OF DYNAMIC ALLIANCE OF LOGISTICS ENTERPRISES - J Xu , Northeastern University and Shenyang University of Technology, Q Zhang and H Zou, China
14:30 - 15:00	REFRESHMENTS



WEDNESDAY, 12 JULY

15:00 - 15:30	ARCHITECTURE ANALYZING OF THREE-DIMENSIONAL HIGHWAY REAL-TIME SYSTEM - X Fu , South China University of Technology, H Li, J Zhu and X Xu, China
15:30 - 16:00	<p>OPTIONAL PAPERS:</p> <p>FINITE ELEMENT MODELING OF ASPHALT MIX WITH X-RAY COMPUTERIZED TOMOGRAPH PROCESSING - P-I Chen, J-m Yu, X-j Li and X-n Zhang, South China University of Technology, China</p> <p>ARCHITECTURE DESIGN OF CIVIL INFRASTRUCTURE MANAGEMENT SYSTEM BASED ON WEB GIS AND WEB SERVICE - X Fu, South China University of Technology, China</p> <p>BRIEF ANALYSIS OF HIGHWAY CONSTRUCTION AND ENVIRONMENTAL PROTECTION - Y Guo, Changsha University of Science and Technology, Z Chen, Xia-dan and D Jiang, China</p> <p>STUDY ON BEARING PERFORMANCE OF LARGE DIAMETER BORED HOLLOW CONCRETE PILE OF PRE-STRESSING FORCE - Z Feng, Chang'an University, China</p> <p>EFFECT OF GIRDER SHRINKAGE AND CREEP UPON STRESSES IN DECK PAVEMENT OF LONG-SPAN BRIDGE - X-y Liu, Changsha University of Science and Technology, China</p> <p>OVERVIEW OF ROAD MAINTENANCE TECHNOLOGY IN CHINA - N Zheng, Chang'an University, China</p> <p>RESEARCH ON THE URBAN TRAFFIC PROBLEMS CAUSED BY MOTORCYCLES BASED ON REGIONAL DIFFERENCE - D Zhang and W Jin, South China University of Technology, China</p> <p>CHANGJIU HIGHWAY CONSTRUCTION AND LANDSCAPE DESIGN - X-c Qin, South China University of Technology, X-n Zhang, C-y Guan and Y-m Shen, China</p>
16:30	BUS DEPARTS FOR APPOINTED HOTELS



THURSDAY, 13 JULY

08:00 - 08:30	REGISTRATION
08:30	COURSE STARTS

SESSION 4A : SAICE COURSE - ITE : PROFESSIONAL TRAFFIC OPERATIONS ENGINEER (PTOE)

The Institute of Transportation Engineers has developed a professional certification in the USA that is referred to as the PTOE. Their definition of a Professional Traffic Operations Engineer is:

“a person who applies a comprehensive knowledge of technology and scientific principles acquired through study and experience to supervision of the day-to-day operations of traffic systems, including the analysis of those operations, detection of problems and deficiencies, setting of priorities, assignment of resources and development of improvements in operations through geometric design, traffic control, or other means. The Professional Traffic Operations Engineer may carry out some but not all of the above duties, or serve as a consultant to individuals with the above responsibilities.”

The Transportation Division of SAICE has obtained the material for a refresher course for the PTOE examination of the ITE. Initial indications are that reasonable interest exists with local practitioners to be introduced to the material. The refresher course consists of the following six modules, which are covered in 7 to 8 hours:

- Traffic Engineering Studies
- Traffic Operations Analysis
- Operational Effects of Geometric Design
- Traffic Safety
- Traffic Control Devices
- Social, Environmental, and Legislative/Regulatory Issues

The course provides an excellent overview of the topics, key references and a brief independent study guide by topic for people intending to take the PTOE certification examination. Although only professional engineers are allowed to write the exam, it was considered that the refresher course could be of value to many practitioners (also non-engineers) in the field of traffic operations.

Continues overleaf



THURSDAY, 13 JULY

The refresher course would provide a chance for local professionals/practitioners to compare their knowledge of the subject area to what is expected from American colleagues. Note that to date the only people outside North America who have successfully completed the exam were from Australia, South Korea and Saudi Arabia. Only a small portion of the material that is covered refers specifically to the USA - the largest portion is general traffic engineering. The presentation of the refresher course as a one-day event (Thursday, 13 July 2006) linked to the 2006 Southern African Transport Conference (SATC 2006) has been organised. Should any local professionals be interested, arrangements can be made for them to officially write the PTOE examination at a later date.

The course material (document with overview material, references and home study questions) will be made available to all attendees. A selection of the home study questions will be explained during the course.

For any further information, please contact: Hein Stander at 021 950-7500, 082 569-4745 or heins@bks.co.za.

16:30

BUS DEPARTS FOR APPOINTED HOTELS

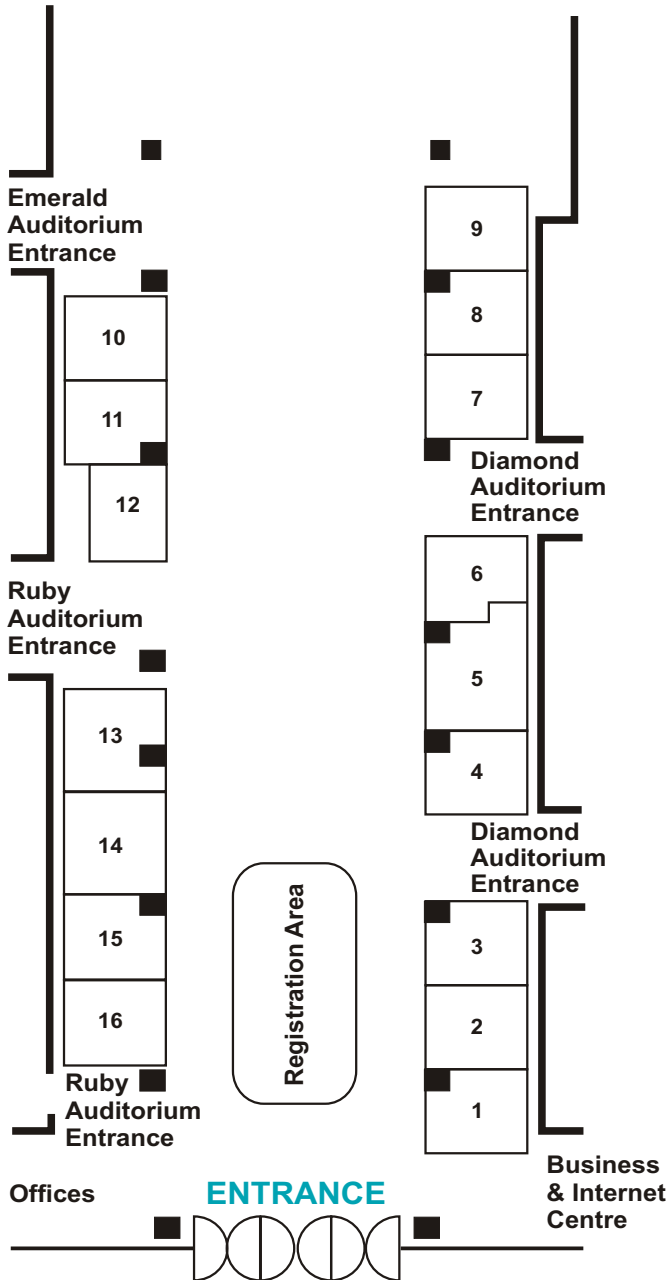


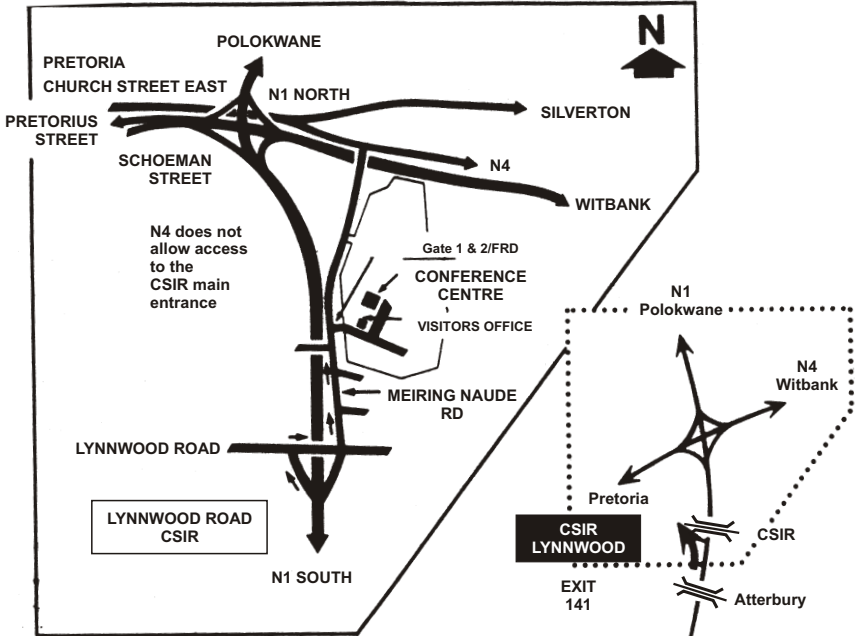
THURSDAY, 13 JULY

08:00 - 08:30	REGISTRATION
08:30	WORKSHOP STARTS
SESSION 4B : CAEA WORKSHOP AND SITE VISITS ON APT / INFRASTRUCTURE / TRANSPORT For Chinese delegation and invited delegates	
FOR FURTHER INFORMATION ON THIS WORKSHOP AND SITE VISITS, PLEASE CONTACT: Yuchen Wang, SA-China Transport Co-operation Center (SACTCC) Tel/Fax: +27 (0)12 998-3634 Cell: +27 (0)72 621-9185 E-mail: sactcc@sunrisepci.com	



CSIR INTERNATIONAL CONVENTION CENTRE Exhibition Floorplan





- Entrance: Meiring Naudé Road at Gate 1&2/FRD
- Keep to your left
- Turn left at Visitor's Office
- See sign boards to Conference Centre and Parking

