

Final Announcement



# *Southern African Transport Conference*

The 41<sup>st</sup> annual

**SOUTHERN AFRICAN TRANSPORT CONFERENCE and EXHIBITION**  
Incorporating the International Road Federation 75<sup>th</sup> birthday celebrations

## **THEME**

**Rethinking transportation: planning and building resilient systems to meet global externalities.**

## **PATRON**

**THE MINISTER OF TRANSPORT**



**transport**

Department:  
Transport  
REPUBLIC OF SOUTH AFRICA



International Road Federation  
Fédération Routière Internationale  
Federación Internacional de Carreteras

The conference is endorsed by the International Road Federation

## **VENUE**

**CSIR International Convention Centre (CSIR ICC), Pretoria, South Africa**  
(Hybrid component: Giving you limited digital access to the live event)

**10 to 13 July 2023**

“Early Bird” registration from 2 May - 10 June 2023  
(The full registration fee applies after 10 June)

**FINAL ANNOUNCEMENT AND PROVISIONAL PROGRAMME**

## **CONTACT DETAILS**

### **CONFERENCE SECRETARIAT (Correspondence and Enquiries)**

Ms Jacqui Oosthuyzen  
Mobile: +27 (0)83 324-9622

Webpage: [www.satc.org.za](http://www.satc.org.za)  
E-mail: [satc.conference@gmail.com](mailto:satc.conference@gmail.com)

## ORGANISING COMMITTEE SATC 2023

Bean, Dr Wilna	University of Pretoria
Behrens, Prof Roger (Deputy Chair)	University of Cape Town
Bruwer, Dr Megan	University of Stellenbosch
De Beer, Mr Gerhard	Auto IH
Dimitrov, Ms Laverne	Development Bank SA
Gräbe, Prof Hannes	University of Pretoria
Jennings, Ms Gail	Research Consultant
Komba, Dr Julius	University of Pretoria
Mashiri, Mr Mac	Gwarajena Transport Research and Development
Mhlanga-Mochadibane, Ms Mavis	Tshwane Women in Transport
Mojafi, Mr Tebogo	South African Maritime Safety Authority
Mokonyama, Dr Mathetha (Chairman)	CSIR
Moselakgomo, Mr Madumetja	University of Johannesburg
Nordengen, Dr Paul	Heavy Vehicle Transport Technology Africa
Oosthuyzen, Ms Jacqui	Secretariat
Pretorius, Dr Pieter	Innovative Transport Solutions
Ribbens, Dr Hubrecht	Consultant
Ssamula, Dr Bridget	Engineering Council of South Africa
Steyn, Prof Wynand	University of Pretoria
Venter, Dr Karien	CSIR
Visser, Prof Alex	University of Pretoria
Wang, Mr Yuchen	SACTCC
Zammataro, Ms Susanna	International Road Federation

## TECHNICAL COMMITTEE SATC

Adams, Prof Charles	Kwame Nkrumah University of Science & Technology, Kumasi, Ghana
Ölçer, Prof Dr Aykut	World Maritime University, Sweden
Prozzi, Prof Jorge	The University of Texas, USA
Wegman, Prof Fred	Delft University of Technology, The Netherlands

## INVITATION

Everyone in any way connected with transport is invited to register for the 41st Southern African Transport Conference (SATC 2023). 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, ports, maritime and aviation. End-users will also find the conference of interest.

## SYNOPTIC PROGRAMME

From Monday to Thursday the sessions/workshops (1A-1D, 2A-2E, 3A-3E, 4A-4D) 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.

<i>DATE</i>	<i>SESSION NO</i>	<i>EVENT</i>
<b>Monday, 10 July</b>		<b><i>Opening Session</i></b>
	<b>1A</b>	<b><i>Infrastructure</i></b>
	<b>1B</b>	<b><i>Treasury Workshop - Public Transport and Spatial Transformation</i></b>
	<b>1C</b>	<b><i>Traffic Engineering</i></b>
	<b>1D</b>	<b><i>Rural Development/ Capacity Building and The International Road Federation (Combined session)</i></b>

<b>Tuesday, 11 July</b>	<b>2A</b>	<b>Infrastructure</b>
	<b>2B</b>	<b>Public Transport</b>
	<b>2C</b>	<b>Traffic Management, Safety and Security</b>
	<b>2D</b>	<b>Freight and Logistics and Student Essay Winner Presentations (Combined session)</b>
	<b>2E</b>	<b>Rail</b>
<b>Wednesday, 12 July</b>	<b>3A</b>	<b>Engineering for Safe Systems Forum</b>
	<b>3B</b>	<b>Smart and e-Mobility</b>
	<b>3C</b>	<b>10<sup>th</sup> China-Africa Transport Co-operation Forum and Maglev /High Speed Trains Applications</b>
	<b>3D</b>	<b>Maritime</b>
	<b>3E</b>	<b>Aviation Workshop</b>
<b>Thursday, 13 July</b>	<b>4A</b>	<b>Integrated Public Transport Networks</b>
	<b>4B</b>	<b>Urban Mobility</b>
	<b>4C</b>	<b>Women in Transport Workshop</b>
	<b>4D</b>	<b>Public Private Partnership Workshop</b>

## SPECIAL EVENT

Opening – SOUL BLEND (Afro-Soul acapella group)

## SOCIAL FUNCTIONS

**Cocktail Party – 17:00 to 18:30, Sponsored by the International Road Federation:**

A cocktail party will be held at the conference venue after the day's proceedings on **Monday, 10 July 2023**. The following awards for papers presented at the conference will be announced:

- SATC Award for the “**Best Paper**”
- SATC Award for the “**Best Practical Paper**” (Sponsored by Chrisen Consulting)
- SAICE Transportation Division Award for the “**Best Paper by a Young Professional**”
- The ‘**Distinguished SATC Fellow**’ award

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.

## EXHIBITION

An exhibition – a showcase for all related industries – will run concurrently with the conference from Monday, 10 July to Thursday, 13 July 2023. Exhibition space (3m x 3m) is available on a first come, first served basis. Organizations wishing to exhibit are requested to contact the Conference Secretariat.

## PROMOTIONAL OPPORTUNITIES

Organizations interested in Promotional Opportunities should contact the Conference Secretariat.

## ACCOMMODATION

The following special rates will apply to delegates.

<b>TOWN LODGE MENLO PARK</b> Atterbury Rd, Menlo Park, Pretoria  Tel: 012 348-2711 (Ask for reservations) E-mail: <a href="mailto:tmenlo.resv@clhg.com">tmenlo.resv@clhg.com</a>	<b>CITY LODGE LYNNWOOD</b> Cnr Lynnwood & Daventry Rds, Lynnwood, Pretoria  Tel: 012 471-0300 (Ask for reservations) E-mail: <a href="mailto:clynnwood.gm@clhg.com">clynnwood.gm@clhg.com</a>
R1,250 single (room only) R1,425 single (breakfast included)	R1 650 single (room only) R1 825 single (breakfast included)
Quote <b>SOUTHERN AFRICAN TRANSPORT CONFERENCE (or Guest File no 1030685)</b> to qualify for the discounted rate	Quote <b>SOUTHERN AFRICAN TRANSPORT CONFERENCE (or Guest File no 1030685)</b> to qualify for the discounted rate

The above hotels are recommended for accommodation during the conference. **Delegates are responsible for their own arrangements.** They should book by E-Mail sending all the relevant details as well as either credit card details or prepayment and quoting the above reference details to qualify for the discounted rates and to ensure a booking at the hotel of their choice.

## TRANSPORT (Courtesy bus)

The organizers 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/social function. Delegates wishing to make use of the courtesy bus should tick the relevant section on the registration form.

## CONFERENCE DOCUMENTATION

Delegates registered for any of the conference sessions and workshops will receive the following documentation:

- Conference Handbook containing the programme and abstracts of the papers presented at SATC 2023.
- Memory Stick containing the full papers presented at SATC 2023.
- Delegate bag
- Pen and Notebook

Extra copies of the memory sticks will be available at a cost of R180.

## STUDENT ESSAY COMPETITION

The Organising Committee has instituted an essay competition open to all registered students (undergraduate as well as postgraduate) at tertiary institutions. The competition is held within the institutions (the Organising Committee has already been in contact with the institutions) and each institution will select its two winners.

Students need to prepare a five-page essay on " Rethinking transportation: planning and building resilient systems to meet global externalities". This relates to the theme of SATC this year. Final selections will be done by each institution, and the winning essays submitted to the SATC Secretariat ([satc.conference@gmail.com](mailto:satc.conference@gmail.com)) by 10 May 2023.

The two top authors from each institution and their lecturer will be supported to attend SATC 2023. Flights/ transport within South Africa (and neighboring countries) to Pretoria (discounted economy class), accommodation in Pretoria, meals and registration will be provided.

## REGISTRATION AND PAYMENT

### REGISTRATION – OPENING 2 MAY 2023

Registration is per day. This four-day conference consists of an opening session, plenary and parallel sessions, including Workshops and Forums.

The conference sessions (1A-1D, 2A-2E, 3A-3E and 4A-4D) take place over a full day and it is therefore possible to register for only one session per day. However, once at SATC, delegates are welcome to move between the sessions.

Registrations are done via the SATC website: [www.satc.org.za](http://www.satc.org.za)

Registrations for virtual delegates will open on 10 June. This is an in-person event and streaming will be limited to three sessions a day.

## FEES AND PAYMENT

### Registration fees are payable in advance by:

#### ▪ **DIRECT DEPOSIT**

Direct deposits may be made into the following bank account and proof of payment sent to the SATC Secretariat (email: satc.conference@gmail.com). Please use the pro forma invoice number as reference so that the payment can be identified, and the correct delegate(s) credited:

<b>Bank</b>	<b>FNB</b>
<b>Branch and code</b>	<b>Hatfield 242-145</b>
<b>Account name</b>	<b>Annual Transportation Convention</b>
<b>Account No</b>	<b>54501151268</b>
<b>Swift code</b>	<b>FIRZAJJ (for transfers from foreign countries)</b>

#### ▪ **PAYFAST**

Upon completion of your registration, you will have the option to be directed to the secure Payfast (payment gateway) site to make a card payment for immediate settlement of delegate registration fees. This platform accepts all major currencies, and all billing conversions are done in original Rand (R) value.

#### ▪ **CASH PAYMENT AT THE CONFERENCE**

If time is short, registration fees may be paid at the conference (IN SUCH CASES THE LATE REGISTRATION FEES WILL APPLY). **Please arrange with the SATC Secretariat prior to attending the conference.**

The late registration fee will apply for all payments received after 10 June 2023.

ID number is required for registration for all South African residents.

If you register as a STUDENT, you are required to mail a copy of your student card to the secretariat prior to the event. You will also be requested to present your student card at the registration desk.

<b>Fees are per day. Fees include 15% VAT (please supply your company VAT number on registration form)</b>	<b>Early bird fee: (For registrations AND PAYMENT up to 10 Jun)</b>	<b>Late fee (For registrations AND PAYMENT from 11 Jun)</b>
<b>Student</b>	<b>R1 000</b>	<b>R1 200</b>
<b>Presenter (on day of presentation)</b>	<b>R1 500</b>	<b>R2 100</b>
<b>Young Professional (under35)</b>	<b>R2 000</b>	<b>R2 400</b>
<b>Delegate</b>	<b>R2 500</b>	<b>R3 200</b>

**Virtual registrations and fees will be made available after 10 June.**

### **THE REGISTRATION FEE FOR THE CONFERENCE SESSIONS AND WORKSHOPS, INCLUDE:**

- Attendance on the registered day(s).
- Lunch and refreshments on the day(s) of attendance.
- Attendance of the cocktail party on Monday, 10 July. (Please indicate on the registration form).
- Transport between the appointed hotels and the conference venue. (Please indicate on the registration form).
- A briefbag containing the conference documentation including the written papers (received in time for printing) on Memory Stick and a Programme Handbook containing the Final Programme and Abstracts of the papers presented.

### **CONFIRMATION**

Once your registration is complete, you will receive a pro-forma invoice via e-mail. Therefore, please ensure that your current e-mail address is given on the registration form.

### **CANCELLATION**

Notification of cancellation received, in writing, prior to or on Friday, 7 July 2023 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 7 July 2023.

DELEGATES ARE REMINDED THAT A COMPLETED 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.

**Please send proof of payment, using the pro forma invoice number as reference.**

(A Tax invoice is issued after payment reflects on our bank statement)

## CPD ACCREDITATION

The conference is SAICE accredited and professional engineers will earn one credit per day of attendance. No attendance certificates will be issued. **In order to apply for credits, professional engineers must sign the special registration sheets (not the SATC conference registration sheets) at the conference registration desk on each day of attendance.**

Only delegates attending the conference in person will earn CPD points.

## OPENING ADDRESS



**Hon. Lydia Sindisiwe Chikunga**  
MINISTER OF TRANSPORT

## PLENARY SPEAKERS

### MONDAY

**Ms Karla Gonzalez Carvajal**  
World Bank



**Karla Gonzalez Carvajal** is a specialist in the subject of negotiation and alternative dispute resolution. She obtained her MBA with an emphasis on Marketing at the University of San Diego in California and holds a degree in Law from the University of Costa Rica.

Her work over the last decade has provided her with extensive experience in the area of public service. She has specialized in Alternative Conflict Resolution Methods and is currently a member of the Centro Internacional de Arbitraje y Conciliación Comercial (International Center for Arbitration and Commercial Conciliation). She was a member of Road Safety Committee, which is led by the Fundación Internacional de Automovilismo (International Automobile Foundation). As Minister of Public Works and Transportation in Costa Rica she achieved a fourfold increase in the investment of public works, the resumption of construction at the national airport, which was stalled due to conflicts, the transformation of the driver's license system, the promotion of a new traffic law and the inclusion of road safety components in the design of road infrastructure. She is currently the World Bank's Practice Manager for Transport in Europe. Karla is also leading the Gender Task Force for the World Bank's Transport Global Practice, working to operationalize the gender agenda in the transport sector.

## **TUESDAY**

**Prof André Roux**

**STELLENBOSCH UNIVERSITY BUSINESS SCHOOL**



**Prof André Roux** was the Director of the Institute for Futures Research (IFR) at the University of Stellenbosch from 1996 to August 2015. André is now in the full-time employ of the US Business School, where he lectures on economics and is also the programme head for the School's postgraduate programmes in Futures Studies. He also teaches on various executive education programmes in South Africa and, from time to time, in Australia, Mauritius, Namibia, Swaziland, Tanzania, Ghana and Nigeria. André is a visiting professor at Vlerick Business School (Belgium) and at the Beijing Business School (China). He is also a guest lecturer on post-graduate programmes at the School of Public Management (Stell) and the Post-graduate diploma in Managing HIV and AIDS in the workplace. André holds a PhD in Economics and is responsible for more than 150 popular publications; 1 book (14th edition); 6 chapters in scientific books; 10 publications in scientific journals; 25 papers presented at domestic and international conferences. He is a regular guest on radio and television programmes. He has supervised 6 PhD theses and more than 150 postgraduate students. Awarded prize for best lecturer at Business School (2016-2018).

## **WEDNESDAY**

**Dr Kevin Trenberth**

**NATIONAL CENTRE FOR ATMOSPHERIC RESEARCH, NEW ZEALAND**



**Dr Kevin Trenberth** is a Distinguished Scholar at the National Centre for Atmospheric Research and an honorary faculty member at the University of Auckland, New Zealand. From New Zealand, he obtained his Sc. D. in meteorology in 1972

from Massachusetts Institute of Technology. He was a lead author of the 1995, 2001 and 2007 Scientific Assessment of Climate Change reports from the Intergovernmental Panel on Climate Change (IPCC) and shared the 2007 Nobel Peace Prize which went to the IPCC. He played a major role in the World Climate Research Programme (WCRP) from 1985 through 2020. He is a fellow of the American Meteorological Society, the American Association for Advancement of Science, the American Geophysical Union, and an honorary fellow of the Royal Society of New Zealand. He is widely published and cited, and has a new book published in 2022.

## KEYNOTE SPEAKER

**THURSDAY**

**Ms Logashri Sewnarain**  
**SMEC South Africa, CEO**



## SESSIONS

### MONDAY, 10 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in their respective venues</b>
<b>OPENING SESSION</b>	
<b>08:30 – 08:50</b>	<b>PERFORMANCE BY SOUL BLEND, INCLUDING THE NATIONAL ANTHEM OF SA</b>
<b>08:50 – 09:00</b>	<b>INTRODUCTION – Dr Mathetha Mokonyama, Conference Chairman</b>
<b>09:00 – 09:10</b>	<b>WELCOME – Mr Philip Hendricks, Chairman, ATC Board</b>
<b>09:10 – 09:40</b>	<b>OPENING ADDRESS - Hon Lydia Sindisiswe Chikunga, Minister of Transport</b>
<b>09:40 – 10:25</b>	<b>PLENARY ADDRESS – Ms Karla Gonzalez Carvajal, World Bank</b>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>

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

(Detailed programme following on next page)



# MONDAY, 10 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 10:30</b>	<b>OPENING SESSION</b>
<b>10:30 - 11:00</b>	<b>REFRESHMENTS</b>
<b>SESSION 1A – INFRASTRUCTURE</b>	
11:00 – 11:30	CONDITION OF SOUTH AFRICA'S TRANSPORT FIXED INFRASTRUCTURE – THE FOURTH JOURNEY ALONG THIS ROAD - <b>K Wall</b> , University of Pretoria and F Slabbert, Sciendum Academy
11:30 – 12:00	To be confirmed
12:00 – 12:30	SAVING OUR SURFACED ROAD NETWORK THROUGH LABOUR INTENSIVE WATER-PROOFING AND RESTORATION - <b>GJ Jordaan</b> , Jordaan Professional Services/ University of Pretoria and WJ vdM Steyn, University of Pretoria
12:30 – 13:00	DISCUSSION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 1 THE SWARTKLIP AND LAMBERT'S BAY EXPERIMENTS - <b>F Netterberg</b> , Pavement Material & Geotechnical Specialist
14:30 – 15:00	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 2 THE LÜDERITZ EXPERIMENT - <b>F Netterberg</b> , Pavement Materials & Geotechnical Specialist
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	GREENING OUR ROAD CONSTRUCTION – VIEWS FROM THE TRANSPORTATION INDUSTRY IN SOUTH AFRICA - M Heyns, M Sinclair and R Combrinck, Stellenbosch University
16:00 – 16:30	MECHANISTIC RESPONSE OF CONVENTIONAL VS PERPETUAL FLEXIBLE PAVEMENTS UNDER SIMILAR LOADING CONDITION: A 3-D FINITE ELEMENT ANALYSIS - <b>L Sogayise</b> , I Aivinhenyo and S Mfengu, University of the Witwatersrand
16:30 – 17:00	DISCUSSION
<b>17:00 – 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## MONDAY, 10 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 10:30</b>	<b>OPENING SESSION</b>
<b>10:30 - 11:00</b>	<b>REFRESHMENTS</b>
<b>SESSION 1B – TREASURY SESSION – PUBLIC TRANSPORT AND SPATIAL TRANSFORMATION</b>	
<b>11:00 – 11:30</b>	PUBLIC TRANSPORT CAPACITY BUILDING PROGRAMME FOR CITIES - <b>H Gaibe</b> , National Treasury
<b>11:30 – 12:00</b>	CSP SPATIAL TRANSFORMATION PROGRAMME: KEY FINDINGS - <b>F Asiimwe</b> , CSIR
<b>12:00 – 12:30</b>	IS SPATIAL TRANSFORMATION ACHIEVABLE OR JUST A PIPE DREAM IN SOUTH AFRICAN CITIES? - <b>A Todes</b> , University of Witwatersrand
<b>12:30 – 13:00</b>	FOLLOW UP DISCUSSION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 14:30</b>	LAND MATTERS: THE ROAD AHEAD - <b>T Ngcukaitobi</b> , Senior Counsel
<b>14:30 – 15:00</b>	FOLLOW UP DISCUSSION
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	STATE OF CITIES FINANCES – CAN CITIES AFFORD SPATIAL TRANSFORMATION? - <b>N Hlatshwayo</b> , SA Cities Network
<b>16:00 – 16:30</b>	ECONOMY ON YOUR DOORSTEP – UNLOCKING LAND FOR ECONOMIC OPPORTUNITIES - <b>A Cawe</b> , Xesibe Holdings
<b>16:30 – 17:00</b>	FOLLOW UP DISCUSSION
<b>17:00 – 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

# MONDAY, 10 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 10:30</b>	<b>OPENING SESSION</b>
<b>10:30 - 11:00</b>	<b>REFRESHMENTS</b>
<b>SESSION 1C – TRAFFIC ENGINEERING</b>	
<b>11:00 – 11:30</b>	<b>GUIDELINES FOR THE PROVISION OF BYPASS ROADS AND THROUGH-WAYS AT CITIES AND TOWNS - <b>PA Pienaar</b>, Mintirho Engineering Services, M Mokonyama, CSIR, DK Das, University of KwaZulu Natal, WJ Pienaar, Stellenbosch University, HJ Stander, SC van As and A Robinson, SANRAL</b>
<b>11:30 – 12:00</b>	<b>UTILIZING UAVS AND AI SOFTWARE FOR DATA COLLECTION AT ROUNDABOUTS - <b>I van Tonder</b> and JT Arries, Stellenbosch University, JC Krogscheepers, Innovative Transport Solutions Global and SC van As, SC van As Traffic Engineer CC and MM Bruwer, Stellenbosch University</b>
<b>12:00 – 12:30</b>	<b>ACCURACY OF VIDEO ANALYTICS AND ON-BOARD GPS DEVICES FOR DATA COLLECTION AT ROUNDABOUTS - <b>JT Arries</b> and I van Tonder, Stellenbosch University, JC Krogscheepers, Innovative Transport Solutions Global, SC van As, SC van As Traffic Engineer CC and MM Bruwer, Stellenbosch University</b>
<b>12:30 – 13:00</b>	<b>OPERATIONAL CONCEPT FOR CONNECTED AND AUTONOMOUS VEHICLES IN AN URBAN ENVIRONMENT - A van Straten and SJ Andersen, Stellenbosch University</b>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 15:00</b>	<b>STATE OF TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS IN SOUTH AFRICA – <b>J Coetzee</b>, Innovative Transport Solutions</b>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	<b>THE NEED FOR SOUTH AFRICA TO ADOPT STANDARD SIGNAGE AND SYMBOLS FOR LOW AND ZERO EMISSION VEHICLES (LZEVs) - <b>L Monyatsi</b>, Road Traffic Management Corporation</b>
<b>16:00 – 16:30</b>	<b>HOW STANDARD (AND VALID) ARE SOUTH AFRICAN PARKING STANDARDS? - <b>MM Bruwer</b> and M Geldenhuys, Stellenbosch University</b>
<b>16:30 – 17:00</b>	<b>PERFORMANCE ASSESSMENT OF SIGNALISED INTERSECTION USING UAV VIDEOGRAPHY – A CASE STUDY OF THE JORISSEN-BERTHA STREET INTERSECTION IN JOHANNESBURG - I Aivinhenyo, I Mokgalaka and T Monareng, University of the Witwatersrand,</b>
<b>17:00 - 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## MONDAY, 10 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 10:30</b>	<b>OPENING SESSION</b>
<b>10:30 - 11:00</b>	<b>REFRESHMENTS</b>
<p><b>SESSION 1D – CAPACITY BUILDING/ TRANSPORT FOR RURAL DEVELOPMENT</b>  <b>And</b>  <b>THE INTERNATIONAL ROAD FEDERATION</b>  <b>(Combined session)</b></p>	
<b>11:00 - 11:30</b>	
<b>11:30 - 12:00</b>	
<b>12:00 - 12:30</b>	
<b>12:30 - 13:00</b>	
<b>13:00 - 14:00</b>	<b>LUNCH</b>
<b>14:00 - 14:15</b>	
<b>14:15 - 14:30</b>	
<b>14:30 - 14:45</b>	
<b>14:45 - 15:00</b>	
<b>15:00 - 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 - 17:00</b>	<b>THE INTERNATIONAL ROAD FEDERATION</b>
<b>17:00 - 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) – Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2A – INFRASTRUCTURE</b>	
<b>09:30 – 10:00</b>	<b>TECHNOLOGY SOLUTIONS FOR STRATEGIC BRIDGE INSPECTIONS IN SOUTH AFRICA - L Kemp, CSIR/ University of Pretoria, R Matchett, Zutari, MP Roux, CSIR and L de Klerk, Zutari</b>
<b>10:00 – 10:30</b>	<b>INNOVATIVE BRIDGE ASSESSMENT FOR DEVELOPING COUNTRIES - PF van der Spuy, Zutari/ Stellenbosch University</b>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	<b>IDENTIFYING ABNORMAL VEHICLE SUBCLASSES FROM WIM DATA FOR THE STRUCTURAL DESIGN OF HIGHWAY BRIDGES IN SOUTH AFRICA - J van Rooyen and PF van der Spuy, Zutari</b>
<b>11:30 – 12:00</b>	<b>INNOVATIVE ROAD DESIGN WITH BIM TECHNOLOGIES - DIGITALLY TRANSFORMING THE WAY WE CREATE ROAD INFRASTRUCTURE - S Yunos, Baker Baynes and D Allopi, Durban University of Technology</b>
<b>12:00 – 12:30</b>	<b>TOWARDS GREENER TRANSPORTATION INFRASTRUCTURE THROUGH INNOVATIVE DIGITAL TWINS ASSESSMENT; STUDY CASE IN UZBEKISTAN - N Miravalls and H Pley-Leclercq, Oris FRANCE</b>
<b>12:30 – 13:00</b>	<b>DISCUSSION</b>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 15:00</b>	<b>WORKSHOP: PORTABLE WIM TECHNOLOGY – THE TEXAS EXPERIENCE</b>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	<b>THE USE OF SEAWATER IN ROAD CONSTRUCTION: 3; A QUICK GUIDE TO AN ACCELERATED CONSTRUCTION METHOD - F Netterberg, Pavement Material &amp; Geotechnical Specialist</b>
<b>16:00 – 16:30</b>	<b>PRELIMINARY ASSESSMENT OF INSITU PAVEMENT CONDITION BASED ON AUTOMATED ROAD CONDITION ASSESSMENT DATA - KT Lekgathe and FN Okonta, University of Johannesburg</b>
<b>16:30 – 17:00</b>	<b>DISCUSSION</b>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2B – PUBLIC TRANSPORT</b>	
09:30 – 10:00	MINIBUS TAXI IMPROVEMENT INITIATIVES IN THE WESTERN CAPE - <b>D Ribbonaar</b> , Western Cape Department of Transport and Public Works, R Collins, G Martin, B MacMahon, G M Johnson, L Rautenbach, P Grey, M Moody and Z Ahmed
10:00 – 10:30	BLUE DOT TAXI SYSTEM IN THE WESTERN CAPE - SYSTEMS AND TECHNOLOGY OVERVIEW - D Ribbonaar, Western Cape Department of Transport and Public Works, G Martin, N Hendricks, Z Jackpersad, P Grey, M Weber
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	NEW MINIBUS-TAXI INITIATIVES IN THE CITY OF CAPE TOWN - <b>R Springleer</b> , City of Cape Town, A Mulla and M Moody, Pegasys, K Kwinana and C Paulsen
11:30 – 12:00	CHARACTERIZATION OF THE MINIBUS-TAXI NETWORK IN THE CITY OF JOHANNESBURG - <b>DC Madumo</b> , CSIR, N Khoza and H Sekwaila, City of Johannesburg
12:00 – 12:30	POTENTIAL TO REGULARISING THE MINIBUS-TAXI INDUSTRY: A POSITION PAPER - <b>R Springleer</b> , City of Cape Town, A Mulla and M Magwaza, Pegasys Consulting
12:30 – 13:00	INFORMAL PUBLIC TRANSPORT PASSENGER SATISFACTION IN SELECTED WEST AND SOUTHERN AFRICAN CITIES - <b>R Behrens</b> , University of Cape Town, T Durant, M Grant Monney, K Osei, J Romero de Tejada, H Schalekamp and A Tarawally
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	BEST-WORST SCALING APPROACH TO MEASURE PUBLIC TRANSPORT USER QUALITY PERCEPTIONS AND PREFERENCES IN CAPE TOWN - <b>SP Walaza</b> , City of Cape Town, P Onderwater, Hatch Africa and M Zuidgeest, University of Cape Town
14:30 – 15:00	THE FACILITATING ROLE OF PASSENGER TRANSPORT FOR ECONOMIC ACTIVITY IN SOUTH AFRICA - <b>M Knipe</b> and SC Krygsman, Stellenbosch University
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	TRAVEL TIME RELIABILITY ASSESSMENT OF PUBLIC TRANSPORT – A CASE STUDY OF THE JOHANNESBURG BUS RAPID TRANSIT (BRT) CORRIDORS - <b>J Mandlate</b> , M Makwakwa and I Aivinhenyo, University of the Witwatersrand
16:00 – 16:30	THE IMPACT HUMAN-CENTRIC PUBLIC TRANSPORT DESIGN PRINCIPLES ON THE DESIRABILITY AND OPERATIONAL SUCCESS OF PUBLIC TRANSPORT IN GAUTENG PROVINCE - <b>R Carstens</b> , SANRAL
16:30 – 17:00	DISCUSSION
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2C – TRAFFIC MANAGEMENT, SAFETY AND SECURITY</b>	
09:30 – 10:00	IMPLEMENTATION OF THE SAFE SYSTEM APPROACH IN SOUTH AFRICA: OVERVIEW OF THE LIMPOPO ROAD SAFETY PROGRAMME - <b>K Venter</b> , CSIR, J James, F Ahmed, N Greyling, S Mavuso, C Malan, M Romijn, C Harding and R Baker
10:00 – 10:30	ROAD FATALITIES: DID COVID-19 IMPACT TREND IN CAPE TOWN? - <b>MJWA Vanderschuren</b> , University of Cape Town
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	'CYCLING IN THE 15-MINUTE CITY: STRATEGIES TO REDEFINE OUR URBAN ENVIRONMENTS, AND MOBILITY WITHIN IT' - A M Wheeldon, Bicycle Cities/ Carfree Cities Alliance
11:30 – 13:00	MINI WORKSHOP ON MICRO MOBILITY – Facilitator: Dr M Vanderschuren REGULATION OF E-SCOOTERS IN SOUTH-AFRICA - SJ de Villiers and M Sinclair, Stellenbosch University FACILITATED DISCUSSION BY ALL DELEGATES
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	THE EFFECT OF INFRASTRUCTURE AND EDUCATIONAL ROAD SAFETY INTERVENTIONS IN KHAYELITSHA, CAPE TOWN - M Vanderschuren, University of Cape Town and <b>P Muchaka</b> , ChildSafe South Africa
14:30 – 15:00	TOWARDS A DEDICATED TRANSPORT SAFETY RESEARCH FACILITY FOR SOUTH AFRICA - B Marole, K Venter, I Sallie, K Muronga, L Kemp, M Kemp, V de Franca, P Binda, M Dube, T Matsaung, K Bosilong, R Malope, T Mogae, P Mashaba, B Kwange, L Kwange, C Maraga and M Feikie
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	HIGH PERFORMANCE PAVEMENT MARKINGS ENHANCING HUMAN, CAMERA AND LIDAR DETECTION - <b>V Tshabangu</b> and R Nuyttens, 3M South Africa
16:00 – 16:30	STUDY ON THE INFLUENCE OF MOUNTAIN LANDSCAPE FACTORS ON THE DRIVING STABILITY OF DRIVERS BASED ON VIRTUAL REALITY SIMULATION - <b>H Li</b> and M Zhang, Hubei University of Technology CHINA
16:30 – 17:00	RESPONDING TO ROAD SAFETY CHALLENGES – PROPOSED PEDESTRIAN SAFETY MEASURES FOR DURBAN CBD - <b>T Mokoni</b> , eThekweni Municipality and <b>L Monyatsi</b> , Road Traffic Management Corporation
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2D – FREIGHT AND LOGISTICS</b>	
09:30 – 10:00	CLIMATE CHANGE MITIGATION IS THE SOUTH AFRICAN TRANSPORT SECTOR READY FOR CHANGE - <b>LA Grimett</b> , Moses Kotane Institute
10:00 – 10:30	DECARBONISATION OF THE ROAD FREIGHT INDUSTRY – <b>AK Kamdar</b> , KDG Logistics
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	APPLICATION OF ARTIFICIAL INTELLIGENCE TO OVERLOAD CONTROL - <b>A de Coning</b> and AJ Hoffman, North-West University
11:30 – 12:00	IoT-ENABLED SUPPLY CHAIN MANAGEMENT AND LOGISTICS - <b>D Chauke</b> , G Gama, R Sebetoa, L Marimuthu, and T Mavhona, CSIR
12:00 – 12:30	EFFECT OF THE ADOPTION OF TECHNOLOGY INNOVATIONS IN THE AIR CARGO LOGISTICS INDUSTRY IN SOUTH AFRICA - <b>AJ Adenigbo</b> , J Mageto and R Luke, University of Johannesburg
12:30 – 13:00	DISCUSSION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 15:00	STUDENT ESSAY PRESENTATIONS
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>END OF SESSION (Delegates may join other sessions)</b>	



## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2E – RAIL</b>	
<b>09:30 – 10:00</b>	<b>THEME: RIALWAYS IN DESERT CONDITIONS APPLICATION OF THE LIFE CYCLE COST ANALYSIS TECHNIQUE TO EXPLORE DESIGN AND MAINTENANCE SOLUTIONS FOR RAILWAY LINES IN WINDBLOWN SANDY DESERTS: THE AUS-LÜDERITZ RAILWAY LINE CASE STUDY - J Hamalwa, PT Johannes and R Ambunda, University of Namibia</b>
<b>10:00 – 10:30</b>	<b>DERAILMENT CONSIDERATIONS FOR BALLASTLESS TRACK IN DESERT AREAS</b>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 13:00</b>	<b>THEME: RAIL SAFETY ASPECTS INVITED PRESENTATIONS BY THE RAILWAY SAFETY REGULATOR AND OTHER ROLE PLAYERS</b>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 15:00</b>	<b>THEME: HIGH SPEED RAIL IN SOUTH AFRICA INVITED PRESENTATIONS BY THE DEPARTMENT OF TRANSPORT AND OTHER ROLE PLAYERS</b>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 17:00</b>	<b>THEME: HIGH SPEED RAIL IN SOUTH AFRICA INVITED PRESENTATIONS BY THE DEPARTMENT OF TRANSPORT, OTHER ROLE PLAYERS AND PANEL SESSION</b>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3A – ENGINEERING FOR SAFE SYSTEMS FORUM</b>	
<b>09:30 – 10:00</b>	<b>SARF INTRODUCTION AND BACKGROUND TO SESSION – B Jonsson and K Labuschagne, SA Road Federation</b>
<b>10:00 – 10:30</b>	<b>PRACTICAL APPLICATION OF THE UPDATED SOUTH AFRICAN ROAD SAFETY ASSESSMENT METHODS (SARSAM 2022) - W Hepkema and M Groenewald, Zutari</b>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	<b>ROAD SAFETY ASSESSMENT IN LIMPOPO PROVINCE ROAD SAFETY ASSESSMENT IN BOTSWANA</b>
<b>11:30 – 12:00</b>	<b>ROAD RESTRAINT SYSTEMS FOR VRU'S – C Barnard and K Venter, CSIR</b>
<b>12:00 – 12:30</b>	<b>UPDATE ON SARRSM 2022 (TMH 24) GUIDELINE – L de V Roodt</b>
<b>12:30 – 13:00</b>	<b>DISCUSSION AND INDUSTRY INPUTS</b>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 15:00</b>	<b>INTRODUCTION AND BACKGROUND TO THE ROAD ASSESSMENT PROCEDURE FOR SOUTH AFRICA (RAPSA) – L Mutswana, T Thomas and A van Gruting, SANRAL</b>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:30</b>	<b>RAPSA CONTEXT AND PRACTICAL APPLICATION – CASE STUDY N10 - L Mutswana, T Thomas and A van Gruting, SANRAL</b>
<b>16:30 – 17:00</b>	<b>DISCUSSION</b>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3B – SMART AND e-MOBILITY</b>	
<b>09:30 – 10:00</b>	THE INTEGRATION OF SMART MOBILITY SYSTEMS ON THE REVISED TAXI RECAPITALIZATION PROGRAM AS A STRATEGY TO MODERNIZE THE TAXI INDUSTRY - <b>JK Ditshego</b> , Vaal University of Technology and M Mokonyama, CSIR
<b>10:00 – 10:30</b>	THE FUTURE OF AUTOMATED FARE COLLECTION SYSTEMS: A PERSPECTIVE FROM THE ETHEKWINI MUNICIPALITY - <b>A Aucamp</b> , eThekweni Transport Authority, S Govender and M Pearton, eThekweni Municipality
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	MICROMOBILITY – TESTING SUITABILITY THROUGH FCD TO IMPROVE OVERALL MOBILITY - LJ van Wyk, SJ Andersen and MM Bruwer, Stellenbosch University
<b>11:30 – 12:00</b>	DECARBONISING SOUTH AFRICA'S PARATRANSIT WITH HYDROGEN - A SIMULATED CASE STUDY - <b>CJ Abraham</b> , Stellenbosch University, T Zenner, Reutlingen University GERMANY, MJ Booysen, and AJ Rix, University of Stellenbosch
<b>12:00 – 12:30</b>	ENERGY AND EMISSIONS MODELLING IN ETHIOPIA'S TRANSPORT SECTOR - <b>O Nnene</b> and M Zuidgeest, University of Cape Town, D Senshaw, B Oberholzer and S Grafakos, Global Green Growth Institute REPUBLIC OF KOREA
<b>12:30 – 13:00</b>	CHALLENGES FACING SOUTH AFRICAN ROAD AUTHORITIES IN THE TRANSITION TO NEW ENERGY VEHICLE TECHNOLOGY - <b>PA Pienaar</b> , Mintirho Engineering Services, M Zuidgeest, University of Cape Town and A Robinson, SANRAL
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 14:30</b>	ESTIMATION OF DISCRETE CHOICE MODELS FOR ROUTE CHOICE FROM DATA COLLECTED USING THE RAPP-UP SMARTPHONE APPLICATION - <b>G Hayes</b> and C Venter, University of Pretoria
<b>14:30 – 15:00</b>	USING TRACKING DATA AND AN ELECTRO-MOBILITY SIMULATOR TO ESTABLISH THE ENERGY REQUIREMENTS OF ELECTRIC MINIBUS TAXIS IN TSHWANE - <b>S Abdelgadir</b> , University of Pretoria, J Giliomee, Stellenbosch University, C Venter, University of Pretoria and MJ Booysen, Stellenbosch University
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 17:00</b>	PANEL DISCUSSION: THE TAXI OF THE FUTURE: TRANSFORMING SA'S LEGACY TRANSPORTATION SERVICE THROUGH TECH – Presentation by various stakeholders and panel discussion
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 – 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3C – 10<sup>TH</sup> CHINA AFRICA TRANSPORT CO-OPERATION FORUM AND / HIGH SPEED TRAINS</b>	
<b>09:30 – 10:00</b>	THE LATEST FRAMEWORK WITH THE INNOVATIVE FRAMEWORK OF THE CHINA-AFRICA TRANSPORT STRATEGY RESEARCH INSTITUTE (CATSRI) UNDER UNIVERSITY OF PRETORIA (UP), CHANG’AN UNIVERSITY (CAU) AND SOUTH AFRICA-CHINA TRANSPORT CO-OPERATION CENTER(SACTCC)
<b>10:00 – 10:30</b>	PROGRESS ON UN-CHINA TRANSPORT SUSTAINABLE AND INNOVATIVE TECHNOLOGY CENTRE
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	CHINA-AFRICA COOPERATION IN THE TRANSPORT SECTOR UNDER THE BRI - <b>Y He</b> , Zhejiang Normal University CHINA
<b>11:30 – 12:00</b>	SIMULATION ON THE THERMAL CONTRACTION COORDINATION BEHAVIOR BETWEEN ASPHALT MIXTURE OVERLAY AND GRADED GRAVEL BASE LAYER - <b>T Wan</b> , H Wang, P Zhang, X Yang and Y Chen, Chang’an University CHINA
<b>12:00 – 12:30</b>	AN EXPOSE OF THE STATE OF CYCLING IN SOUTH AFRICAN CITIES: INSIGHTS FROM THE CITY OF JOHANNESBURG - <b>B Risimati</b> , University of Venda, T Gumbo and T Moyo, University of Johannesburg and E Ingwani, University of Venda
<b>12:30 – 13:00</b>	WIN-WIN ACHIEVEMENTS ON TRANSPORT AND INFRASTRUCTURE DEVELOPMENT HAND BY HAND ON CHINA-AFRICA COLLABORATIONS - <b>Y Wang</b> , SACTCC
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>MAGLEV AND HIGH SPEED TRAINS</b>	
<b>14:00 – 14:30</b>	To be confirmed
<b>14:30 – 15:00</b>	
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	
<b>16:00 – 16:30</b>	
<b>16:30 – 17:00</b>	
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 – 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 – 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3D – MARITIME</b>	
<b>09:30 – 10:00</b>	<b>SOUTH AFRICAN SHIP REGISTER PROMOTION STRATEGY – S Bhengu and L Mudau</b>
<b>10:00 – 10:30</b>	
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	<b>MARITIME GAME CHANGERS IN SOUTH AFRICA- K Ngubane</b>
<b>11:30 – 12:00</b>	<b>THE PORT INFRASTRUCTURE INVESTMENT IN SOUTH AFRICA - S Mdlalose</b>
<b>12:00 – 12:30</b>	<b>THE IMPLEMENTATION OF TRADE SINGLE WINDOW SYSTEM: CASE OF KENYA – M Issa</b>
<b>12:30 – 13:00</b>	<b>UNDERSTANDING THE PLIGHT AND CHALLENGES FACING SOUTH AFRICAN SEAFARERS - L Grimett, Moses Kotane Institute</b>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 14:30</b>	<b>BEST PRACTICES FOR ABANDONED, LOST OR OTHERWISE DISCARDED FISHING GEAR (ALDFG) IN AFRICA - D Marlin</b>
<b>14:30 – 15:00</b>	<b>THE ECONOMIC IMPACT OF HIGHER PORT CHARGES AND THE ROLE OF THE PORT REGULATOR - N Nkowane</b>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	<b>TRANSITIONING TO MARITIME DECARBONISATION</b>
<b>16:00 – 16:30</b>	<b>MARKET BASED MEASUREMENTS IN SHIPPING</b>
<b>16:30 – 17:00</b>	<b>SUMMARY</b>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 – 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) – Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3E – AVIATION WORKSHOP                  PLANNING &amp; DESIGN CONSIDERATIONS: THE AIRPORT CONTEXT</b>	
<b>09:30 – 10:00</b>	<b>POLICY -</b> <ul style="list-style-type: none"> <li>• Progress on the possible impact of the White Paper</li> <li>• Effect of SAATM</li> <li>• The ICAO 2050 zero carbon footprint targets and other initiatives</li> <li>• Compliance and SARPS (ICAO, SACAA and IATA)</li> </ul>
<b>10:00 – 10:30</b>	<b>TRENDS &amp; TECHNOLOGIES -</b> <ul style="list-style-type: none"> <li>• New aircraft technologies</li> <li>• Drones- commercialization, e-commerce</li> </ul>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 13:00</b>	<b>AIRPORT GROWTH -PLANNING CONSIDERATIONS -</b> <ul style="list-style-type: none"> <li>• The role and mission of Airport operators – Market development strategies &amp; influence- 3 levels of government.</li> <li>• Aerotropolis versus Airport Urbanism Planning</li> <li>• New traffic and cargo/freight trends</li> </ul>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 15:00</b>	<b>DESIGN &amp; FORECASTING -</b> <ul style="list-style-type: none"> <li>• Forecasting – objectives and methodologies</li> <li>• Determination of critical design aircraft and optimization</li> <li>• Design Elements: Peak hours, days and weeks versus annual projections</li> </ul>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 17:00</b>	<b>AIRPORT- INVESTMENT CONSIDERATIONS -</b> <ul style="list-style-type: none"> <li>• Value management in optimizing life cycle spend at airports</li> <li>• Aeronautical versus non-aeronautical income</li> <li>• Optimize land use in airport precincts</li> </ul>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## THURSDAY, 13 JULY

<b>07:30 – 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	Briefing for presenters and chairs in the respective venues
<b>SESSION 4A – INTEGRATED PUBLIC TRANSPORT NETWORKS</b>	
<b>08:30 – 09:00</b>	A TOTAL SOCIAL COST APPROACH TO PUBLIC TRANSPORT PLANNING IN SOUTH AFRICA - <b>M Nkosi</b> , SMEC South Africa, M Zuidgeest, University of Cape Town, M Mokonyama, CSIR and R Hawthorne, Acacia Economics
<b>09:00 – 09:30</b>	FUNDING OPTIONS FOR IPTN INFRASTRUCTURE AND SERVICES - N Matebese, DBSA
<b>09:30 – 10:00</b>	PROPOSED METHODOLOGY OF OPTIMIZING THE SECONDARY PUBLIC TRANSPORT NETWORK OF THE CITY OF JOBURG - M Rathogwa and A Singano, CSIR
<b>10:00 – 10:30</b>	DISCUSSION
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	TRANSFORMING THE MINI-BUS TAXI INDUSTRY IN RUSTENBURG: PROGRESS ON INDUSTRY TRANSITION INTO THE RUSTENBURG RAPID TRANSPORT PROJECT - <b>O Moleele</b> , Rustenburg Local Municipality
<b>11:30 – 12:00</b>	INTEGRATION OF MIDI-BUSES INTO THE GAUTRAIN SERVICES - <b>L Mathebula</b> , Gautrain Management Agency
<b>12:00 – 12:30</b>	LESSONS LEARNED FROM EVALUATING OPTIONS USING MULTI-CRITERIA ANALYSIS IN TWO CORRIDORS WITHIN THE CITY OF JOHANNESBURG - M Nkosi and M Jablonski, SMEC South Africa and NC Duze, City of Johannesburg
<b>12:30 – 13:00</b>	FOLLOW-UP DISCUSSION: FORMALISING TAXI INDUSTRY PARTICIPATION IN THE IPTN - TRANSFORMATION VS INTEGRATION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 14:30</b>	NLTA AMENDMENT BILL: LEGAL ASPECTS OF THE NLTA - <b>L Mabece</b> , Bulumko Law Advisors
<b>14:30 – 15:00</b>	FOLLOW-UP DISCUSSION: LEGAL ASPECTS OF THE NLTA AND MULTI-MODALISM OF IPTN
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	WHAT HAPPENS WHEN THE 12-YEAR BUS RAPID TRANSIT CONTRACTS COME TO AN END? MANAGING THE TRANSITION FROM NEGOTIATED VEHICLE OPERATOR CONTRACTS TO COMPETITIVE BIDDING PROCESSES - P Koch, P Grey, M Moody, M Weber, A Macfarlane and A Bulman
<b>16:00 – 16:30</b>	FOLLOW-UP DISCUSSION: RISK MITIGATION DURING THE TRANSITIONING PERIOD
<b>16:30 – 17:00</b>	To be confirmed
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## THURSDAY, 13 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>SESSION 4B – URBAN MOBILITY</b>	
08:30 – 09:00	POST-COVID TRAVEL BEHAVIOUR IS AS THE 'OLD-NORMAL' - <b>P Onderwater</b> , Hatch Africa
09:00 – 09:30	MEASURING THE IMPACT OF COVID-19 ON MOBILITY IN GAUTENG PROVINCE, SOUTH AFRICA - <b>B Marole</b> and F Asimwe, CSIR and T Vanner, Gauteng Department of Roads and Transport
09:30 – 10:00	POST-COVID SHIFTS IN BUS PASSENGER TRIP TIMING AND VEHICLE UTILISATION IN CAPE TOWN - R Behrens and M Bruwer, University of Cape Town, N McLachlan, Organisation Development Africa, D Meyer and E Scholtz, Golden Arrow Bus Services
10:00 – 10:30	DISCUSSION SESSION: TRANSPORT IN THE AFTERMATH OF COVID-19
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	TOWARDS THE EMPOWERED COMMUTER: EXPLORING INFORMATION BEHAVIOUR OF INFORMAL PUBLIC TRANSPORT USERS - <b>C Venter</b> , I Fourie, L Mokoma and S Harvett, University of Pretoria, N Grant, WhereIsMyTransport UNITED KINGDOM, P Mukwaya, Makerere University UGANDA and L Ribet, WhereIsMyTransport UNITED KINGDOM
11:30 – 12:00	"I HAVE NO CHOICE" EXPLORING LATENT DEMAND IN LILONGWE, MALAWI - <b>T Kerzhner</b> , UC Berkeley USA, Z Chilumpha, W Jana and S Tukula, Concern-Worldwide MALAWI
12:00 – 12:30	RELATIONSHIPS BETWEEN RESIDENTIAL RELOCATION, TRAVEL BEHAVIOUR AND HOUSEHOLD AFFORDABILITY: THE CASE OF THE ROODEPOORT REGIONAL NODE IN JOHANNESBURG - <b>R Khoza</b> and R Behrens, University of Cape Town
12:30 – 13:00	DISCUSSION SESSION: TRAVEL BEHAVIOUR AND TRAVEL CHOICES
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	SOCIAL FACILITY PLANNING: COMPARING ACCESSIBILITY IN TSHWANE BASED ON DIFFERENT TRANSPORT NETWORKS - <b>R Komane</b> , CSIR and DJ du Plessis, Stellenbosch University
14:30 – 15:00	MOVING BARRIERS, INCREASING ACCESS: AN ASSESSMENT OF THE MOBILITY OF WOMEN WITH DISABILITIES AND ELDERLY WOMEN - R Gitau, N Mwaura and <b>L Kihonge</b> , Flone Initiative KENYA
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	BREAKING BARRIERS TO INCREASE THE PARTICIPATION OF WOMEN IN CYCLING IN NAIROBI CITY COUNTY - <b>R Gitau</b> , Flone Initiative KENYA
16:00 – 16:30	USING SYSTEMS DYNAMICS TO SUPPORT A CITY'S GROWTH AND DEVELOPMENT STRATEGY (GDS): A CITY OF JOHANNESBURG CASE STUDY - M Rathogwa and R Malope, CSIR
16:30 – 17:00	DISCUSSION SESSION: SOCIAL INCLUSIVITY AND CITY GROWTH THROUGH TRANSPORT SYSTEMS
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>



## THURSDAY, 13 JULY

<b>07:30 – 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>SESSION 4C – WOMEN IN TRANSPORT</b>	
<b>08:30 – 09:00</b>	<b>KEYNOTE ADDRESS – L Sewnarain, SMEC South Africa</b>
<b>09:00 – 09:30</b>	<b>PLANNING FOR RESILIENCE, EMBEDDING RISK – NF Moloto, Tsa Afrika</b>
<b>09:30 – 10:00</b>	<b>DIALOGUES FOR GENDER-INCLUSIVE MOBILITY IN CAPE TOWN - AG Newlands, FB Grosse-Weischede and MJWA Vanderschuren, University of Cape Town</b>
<b>10:00 – 10:30</b>	<b>"EMPOWERING WOMEN IN THE TRANSPORTATION SECTOR TO FOSTER RESILIENCE" – V Leyka, Seraph Network</b>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	<b>ATTRACTING AND RETAINING WOMEN IN PUBLIC TRANSPORT – I Mncwango, Gauteng Women in Transport Bus Operators</b>
<b>11:30 – 12:00</b>	<b>N Mhlanga, Standard Bank</b>
<b>12:00 – 12:30</b>	<b>THE UPSKILLING OF FEMALE CIVIL ENGINEERS AT 8 SOUTH AFRICAN METROS – B Jonsson, SA Road Federation</b>
<b>12:30 – 13:00</b>	<b>I Lalgy, Lalgy Transporters Mozambique-Transport and Logistics</b>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 14:30</b>	<b>SHE CAN: A TOOL TO EMPOWER DECISION MAKERS TO ADDRESS SEXUAL HARASSMENT IN PUBLIC TRANSPORT IN SUB-SAHARAN AFRICA - TE Lane-Visser and MJWA Vanderschuren University of Cape Town</b>
<b>14:30 – 15:00</b>	<b>FUNDING FOR SMME'S AND JOB CREATION BY SMME'S – A Ngxeketo, Mamoja Trading and Projects</b>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	<b>THE ROLE OF ALL-INCLUSIVE DATA IN PREDICTIVE ANALYSIS OF THE KNOCK-ON EFFECTS OF GLOBAL PHENOMENA – G Ankunda, University of Pretoria</b>
<b>16:00 – 16:30</b>	<b>HOW TO BUILD RESILIENCE BY CREATING A STRONG BRAND AND IMPLEMENTING A PRO-ACTIVE COMMUNICATION PLAN – C Lankin, CILTA</b>
<b>16:30 – 17:00</b>	<b>CLOSING REMARKS – L Mabece, Bulumko Law Advisors</b>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## THURSDAY, 13 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	Briefing for presenters and chairs in the respective venues
<b>SESSION 4D – PUBLIC PRIVATE PARTNERSHIP WORKSHOP</b>	
Programme to be advised	
08:30 – 09:00	
09:00 – 09:30	
09:30 – 10:00	
10:00 – 10:30	
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	
11:30 – 12:00	
12:00 – 13:00	
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 15:00	
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:30	
16:30 – 17:00	
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

**Please note that this is a DRAFT Programme and may be subject to some alterations before the Conference.**

**Please register on-line at [www.satc.org.za](http://www.satc.org.za)**

**We look forward to welcoming you at SATC 2023**