



Southern African Transport Conference

The 41st annual

SOUTHERN AFRICAN TRANSPORT CONFERENCE and EXHIBITION
Incorporating the International Road Federation 75th 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
E-mail: 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	Stellenbosch University
De Beer, Mr Gerhard	Auto IH
Dimitrov, Ms Laverne	Development Bank SA
Jennings, Ms Gail	Research Consultant
Komba, Dr Julius	University of Pretoria
Marutla, Mr Fana	PRASA
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. Please visit the website for the full programme.

Virtual sessions: (1A,1D + 2A, 2D + 3C, 3D + 4B, 4D)

Virtual registrations will open on 12 June

DATE	SESSION NO	EVENT
Monday, 10 July		Opening Session
	1A	Infrastructure (Virtual)
	1B	Treasury Workshop - Public Transport and Spatial Transformation
	1C	Traffic Engineering

	1D	<i>Rural Development/ Capacity Building and The International Road Federation (Combined session) (Virtual)</i>
Tuesday, 11 July	2A	<i>Infrastructure (Virtual)</i>
	2B	<i>Public Transport</i>
	2C	<i>Traffic Management, Safety and Security</i>
	2D	<i>Freight and Logistics and Student Essay Winner Presentations (Combined session) (Virtual)</i>
	2E	<i>Rail</i>
Wednesday, 12 July	3A	<i>Engineering for Safe Systems Forum</i>
	3B	<i>Smart and e-Mobility</i>
	3C	<i>10th China-Africa Transport Co-operation Forum and Maglev /High Speed Trains Applications (Virtual)</i>
	3D	<i>Maritime (Virtual)</i>
	3E	<i>Aviation Workshop</i>
Thursday, 13 July	4A	<i>Integrated Public Transport Networks</i>
	4B	<i>Urban Mobility (Virtual)</i>
	4C	<i>Women in Transport Workshop</i>
	4D	<i>Public Private Partnership Workshop (Virtual)</i>

PROMOTIONAL OPPORTUNITIES

Organizations interested in Promotional Opportunities should contact the Conference Secretariat.

REGISTRATION AND PAYMENT

Registrations for **VIRTUAL DELEGATES** will open on 12 June. This is an in-person event and streaming will be limited to a maximum of two sessions a day.

Monday: 1A, Infrastructure and 1D, Rural Transport and IRF

Tuesday: 2A, Infrastructure and 2D, Freight and Logistics and Student Essay presentations

Wednesday: 3C, China-Africa and 3D, Maritime

Thursday: 4B, Urban Mobility and 4D, PPP

Please register on the website at www.satc.org.za

A virtual link will be provided after payment is received.

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.

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

▪ 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.

If you register as a STUDENT, you are required to mail a copy of your student card to the secretariat prior to the event.

Fees are per day. Fees include 15% VAT (please supply your company VAT number on registration form)	Virtual fee
Student	R600
Presenter (on day of presentation)	R1 050
Young Professional (under35)	R1 200
Delegate	R1 600

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

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

OPENING ADDRESS

Hon. Sindisiwe Lydia Chikunga

MINISTER OF TRANSPORT



Hon. Minister Chikunga has been appointed on the following Portfolios:

-Deputy Minister of Transport - June 2012 to May 2019.

-Deputy Minister for Public Service and Administration in June 2019 to August 2021.

-Deputy Minister of Transport – August 2021 to March 2023.

Honourable Sindisiwe Chikunga, from the 1980's to date held and served in various positions of leadership and responsibility in many African National Congress (ANC) structures. In 2004 she was deployed by the African National Congress to serve as a member of parliament in the National Assembly. Her diligent deportment, prominent sharp astuteness, hardworking and political responsiveness have been expressive in the various positions she was appointed to

serve in parliament. As a member of parliament for over 10 years, she has been a chairperson of the portfolio committee on police, a whip, and a member of various portfolio committees. She holds a Master's degree in Nursing from the University of Pretoria, BA Honours from UNISA, a Diploma in Midwifery and a Nursing Science Diploma both from Edendale Nursing College. She is currently studying towards a Master's degree in Political Science. She is not only a passionate, self-driven health and transport sector empowerment practitioner; She is a tried and tested, selfless, and tireless leader of the African National Congress, a feisty hardworking advocate for a holistic socioeconomic development and emancipation of women and the rural poor.

PLENARY SPEAKERS

MONDAY

Ms Karla González Carvajal
World Bank



Ms. Karla Gonzalez Carvajal, a Costa Rican national, is the World Bank's Practice Manager for Transport in Southern Africa since 2022 and is based in Pretoria. Karla first joined the World Bank in 2012 as Sector Manager in the Sustainable Development Department of the South Asia Region, and has served as the Gender Global Lead in the Transport Global Practice. Before joining the Southern Africa office, she served as Practice Manager, Transport, in the Europe and Central Asia Region. Over the last 25 years Karla has worked in the Transport sector in various roles, as Minister of Public Works and Transportation of Costa Rica, in private sector with focus on Corporate Law, and as a Consultant to the Inter-American Development Bank and the Federation Internationale de l'Automobile on Road Safety.

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.

SESSIONS

MONDAY, 10 JULY

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

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

(Detailed programme following on next page)

MONDAY, 10 JULY

07:30 - 08:30	REGISTRATION AND REFRESHMENTS
08:10	Briefing for presenters and chairs in the respective venues
08:30 - 10:30	OPENING SESSION
10:30 - 11:00	REFRESHMENTS
SESSION 1A – INFRASTRUCTURE THIS SESSION IS SPONSORED BY ROMH CONSULTING	
SESSION CHAIR: Dr Emile Horak, Kubu Consultancy	
11:00 – 11:30	CONDITION OF SOUTH AFRICA'S TRANSPORT FIXED INFRASTRUCTURE – THE FOURTH JOURNEY ALONG THIS ROAD – K Wall , University of Pretoria
11:30 – 12:00	SAVING OUR SURFACED ROAD NETWORK THROUGH LABOUR INTENSIVE WATER-PROOFING AND RESTORATION – GJ Jordaan , Jordaan Professional Services/ University of Pretoria and WJ vdM Steyn, University of Pretoria
12:00 – 12:30	MECHANISTIC RESPONSE OF CONVENTIONAL VS PERPETUAL FLEXIBLE PAVEMENTS UNDER SIMILAR LOADING CONDITION: A 3-D FINITE ELEMENT ANALYSIS – L Sogayise , I Aivinhenyo and S Mfengu, University of the Witwatersrand
12:30 – 12:45	ROMH SPONSORSHIP PRESENTATION – B Selekana , ROMH Consulting
12:45 – 13:00	DISCUSSION
13:00 – 14:00	LUNCH
14:00 – 14:30	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 1 THE SWARTKLIP AND LAMBERT'S BAY EXPERIMENTS – F Netterberg , Pavement Material & Geotechnical Specialist
14:30 – 15:00	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 2 THE LÜDERITZ EXPERIMENT - F Netterberg , Pavement Materials & Geotechnical Specialist
15:00 – 15:30	REFRESHMENTS
15:30 – 16:00	ADVANCING ASPHALT MIXTURES IN SOUTH AFRICA: UNCOVERING SUITABLE NON-CONVENTIONAL MATERIALS AND DESIGN METHODOLOGIES/PROCEDURE - R Lutchminarian and MMH Mostafa, University of KwaZulu-Natal
16:00 – 16:30	COMPARING THE FWD AND TSD CALCULATED INDICES USING THE LIMIT OF AGREEMENT (LOA) METHOD – O Sengwane , SANRAL
16:30 – 17:00	DISCUSSION
17:00 – 18:30	COCKTAIL PARTY
18:30	BUS DEPARTS FOR APPOINTED HOTELS

MONDAY, 10 JULY

07:30 - 08:30	REGISTRATION AND REFRESHMENTS
08:10	Briefing for presenters and chairs in the respective venues
08:30 - 10:30	OPENING SESSION
10:30 - 11:00	REFRESHMENTS
SESSION 1D – CAPACITY BUILDING/ TRANSPORT FOR RURAL DEVELOPMENT AND THE INTERNATIONAL ROAD FEDERATION Innovation & Digitalisation for a Sustainable Future	
SESSION CHAIR: Prof James Chakwizira, University of Venda	
11:00 - 11:30	PLANNING FOR SUSTAINABILITY: THE GREEN TRANSPORT POLICY – T Tenza , Department of Transport
11:30 - 12:00	SOCIAL MEDIA LESSONS RELATED TO THE DEVELOPMENT OF LONG-DISTANCE PUBLIC TRANSIT IN THE UNDERDEVELOPED COMMUNITIES - DM Serumula and M Vanderschuren, University of Cape Town
12:00 - 12:30	GENDER IMPACTS ON RURAL CYCLING DECISIONS: A CASE STUDY OF BUGESERA DISTRICT, RWANDA - JCB Munyaka , École Polytechnique Fédérale de Lausanne, SWITZERLAND, J Chenal, École Polytechnique Fédérale de Lausanne, SWITZERLAND and Université Mohammed VI Polytechnique, MOROCCO, AG Sebarenzi ,University of Rwanda, R Mranji, École Polytechnique Fédérale de Lausanne,SWITZERLAND and Université Mohammed VI Polytechnique, MOROCCO, J Malonza, University of Rwanda, S Ndam, and AA Konou, École Polytechnique Fédérale de Lausanne, SWITZERLAND
12:30 - 13:00	NEW SMART COASTAL AFRICAN CITY: ROADMAP FOR SUSTAINABLE DEVELOPMENT FOR THE EASTERN SEABOARD REGION – M Kgomo , MISA
13:00 - 14:00	LUNCH
14:00 - 14:30	RURAL TRANSPORT AND DEVELOPMENT: A CASE OF THE ALBERTINE REGION IN UGANDA - M Mutesi , Centre Safe Way Right Way (SWRW), UGANDA
14:30 - 15:00	MOST DANGEROUS WAYS TO SCHOOL: A CASE OF PEDDIE IN THE EASTERN CAPE - MM Muthige , Independent Researcher
15:00 - 15:30	REFRESHMENTS
INTERNATIONAL ROAD FEDERATION Innovation & Digitalisation for a Sustainable Future	
SESSION CHAIR: Susanna Zammataro, IRF Switzerland	
15:30 - 15:45	ROADS4PEOPLE FUND: INNOVATING TO SUSTAIN INVESTMENTS IN RURAL ROADS - N Miravalls , Oris, FRANCE
15:45 - 16:00	FOSTERING COLLABORATION AND DRIVING INNOVATION: UNLOCKING THE POWER OF OPEN DATA WITH THE DEVELOPER PORTAL IN IROADS DIGITAL ROAD ASSET MANAGEMENT SYSTEM - S Karangad , TRL
16:00 - 16:15	GENDER-BASED TRAVEL DATA COLLECTION AND RELATED SEXUAL-HARASSMENT IN SUB-SAHARIAN AFRICA – M Vanderschuren , University of Cape Town
16:15 - 16:30	THE AFRICAN URBAN MOBILITY OBSERVATORY (AUMO) - USING BIG DATA COLLECTION TECHNIQUES AND MOBILE TECHNOLOGIES TO BUILD A MOBILITY OBSERVATORY IN 6 AFRICAN CITIES - J Coetzee , GoMetro
16:30 - 17:00	DISCUSSION
17:00 - 18:30	COCKTAIL PARTY
18:30	BUS DEPARTS FOR APPOINTED HOTELS

TUESDAY, 11 JULY

07:30 - 08:30	REGISTRATION AND REFRESHMENTS
08:10	Briefing for presenters and chairs in the respective venues
08:30 - 09:25	PLENARY ADDRESS (Diamond Auditorium) – Prof André Roux, Stellenbosch University
09:25 – 09:30	Plenary breaks up into parallel sessions
SESSION 2A – INFRASTRUCTURE THIS SESSION IS SPONSORED BY ROMH CONSULTING	
SESSION CHAIR: Dr Lubinda Walubita, TTI - The Texas A&M University System	
09:30 – 10:00	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
10:00 – 10:30	INNOVATIVE BRIDGE ASSESSMENT FOR DEVELOPING COUNTRIES - PF van der Spuy , Zutari and Stellenbosch University
10:30 – 11:00	REFRESHMENTS
11:00 – 11:30	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
11:30 – 12:00	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
12:00 – 12:30	TOWARDS GREENER TRANSPORTATION INFRASTRUCTURE THROUGH INNOVATIVE DIGITAL TWINS ASSESSMENT; STUDY CASE IN UZBEKISTAN - N Miravalls and H Pley-Leclercq, Oris FRANCE
12:30 – 12:45	ROMH SPONSORSHIP PRESENTATION – C Mkhabela , ROMH Consulting
12:45 – 13:00	DISCUSSION
13:00 – 14:00	LUNCH
14:00 – 15:00	WORKSHOP: PORTABLE WIM TECHNOLOGY – THE TEXAS EXPERIENCE – L Walubita , TTI - The Texas A&M University System
15:00 – 15:30	REFRESHMENTS
15:30 – 16:00	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 3; A QUICK GUIDE TO AN ACCELERATED CONSTRUCTION METHOD - F Netterberg , Pavement Material & Geotechnical Specialist
16:00 – 16:30	GREENING OUR ROAD CONSTRUCTION – VIEWS FROM THE TRANSPORTATION INDUSTRY IN SOUTH AFRICA – M Heyns , M Sinclair and R Combrinck, Stellenbosch University
16:30 – 17:00	DISCUSSION
17:10	BUS DEPARTS FOR APPOINTED HOTELS

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08:30 - 09:25	PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University
09:25 – 09:30	Plenary breaks up into parallel sessions
SESSION 2D – FREIGHT AND LOGISTICS	
SESSION CHAIR: Dr Paul Nordengen, Heavy Vehicle Transport Technology Africa	
09:30 – 10:00	CLIMATE CHANGE MITIGATION IS THE SOUTH AFRICAN TRANSPORT SECTOR READY FOR CHANGE - LA Grimett , Moses Kotane Institute
10:00 – 10:30	DECARBONIZING ROAD FREIGHT: TOWARDS NET ZERO EMISSIONS – AK Kamdar , KDG Logistics
10:30 – 11:00	REFRESHMENTS
11:00 – 11:30	APPLICATION OF ARTIFICIAL INTELLIGENCE TO OVERLOAD CONTROL - A de Coning and AJ Hoffman , North-West University
11:30 – 12:00	IoT-ENABLED SUPPLY CHAIN MANAGEMENT AND LOGISTICS - D Chauke , 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 - AJ Adenigbo , J Mageto and R Luke, University of Johannesburg
12:30 – 13:00	DISCUSSION
13:00 – 14:00	LUNCH
SESSION CHAIR: Prof Alex Visser, University of Pretoria	
14:00 – 15:00	STUDENT ESSAY PRESENTATIONS 1 FN Paulus , University of Namibia 2 DM Temfundo , University of Namibia 3 G Ankunda , University of Pretoria 4 DC Grant , Stellenbosch University 5 E Kakoma , Stellenbosch University 6 C Chen , Henan Polytechnic University, China 7 T Liu , Henan Polytechnic University, China 8 S Mangwaya , University of Venda 9 Y He , Chang'An University, China 10 Y Li , Chang'An University, China
15:00 – 15:30	REFRESHMENTS
15:30 – 16:00	STUDENT ESSAY PRESENTATIONS CONTINUED
END OF SESSION (Delegates may join other sessions)	

WEDNESDAY, 12 JULY

07:30 - 08:30	REGISTRATION AND REFRESHMENTS
08:10	Briefing for presenters and chairs in the respective venues
08:30 – 09:25	PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand
09:25 – 09:30	Plenary breaks up into parallel sessions
SESSION 3C – 10TH CHINA AFRICA TRANSPORT CO-OPERATION FORUM AND / MAGLEV & HIGH-SPEED TRAINS	
SESSION CHAIR: Prof Kevin Wall, SACTCC	
09:30 – 10:00	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) – Y Wang, A Visser and J Masilela , SACTCC, T Tenza and L Mpofo , Department of Transport
10:00 – 10:30	PROGRESS ON UN-CHINA TRANSPORT SUSTAINABLE AND INNOVATIVE TECHNOLOGY CENTRE AT MINISTRY OF TRANSPORT IN BEIJING, CHINA AND POTENTIAL WITH SOUTH AFRICA AND AFRICA – Y Wang and J Masilela , SACTCC, B Makobe , Southern Africa-China Science, Engineering, Technology & Education Association (SETEA), C Masoka and D Nkadimeng , Department of Science and Innovation
10:30 – 11:00	REFRESHMENTS
11:00 – 11:30	CHINA-AFRICA COOPERATION IN THE TRANSPORT SECTOR UNDER THE BRI - Y He , Zhejiang Normal University CHINA
11:30 – 12:00	SIMULATION ON THE THERMAL CONTRACTION COORDINATION BEHAVIOR BETWEEN ASPHALT MIXTURE OVERLAY AND GRADED GRAVEL BASE LAYER - T Wan , H Wang, P Zhang, X Yang and Y Chen, Chang'an University CHINA
12:00 – 12:30	AN EXPOSE OF THE STATE OF CYCLING IN SOUTH AFRICAN CITIES: INSIGHTS FROM THE CITY OF JOHANNESBURG - B Risimati , University of Venda, T Gumbo and T Moyo, University of Johannesburg and E Ingwani, University of Venda
12:30 – 13:00	WIN-WIN ACHIEVEMENTS ON TRANSPORT AND INFRASTRUCTURE DEVELOPMENT HAND BY HAND ON CHINA-AFRICA COLLABORATIONS - Y Wang , SACTCC
13:00 – 14:00	LUNCH
MAGLEV AND HIGH-SPEED TRAINS	
SESSION CHAIR: Mr William Dachs, Gautrain	
14:00 – 14:30	HIGH-SPEED RAIL STUDIES IN SOUTH AFRICA – G de Beer , AIH Econogistics
14:30 – 15:00	THE FUTURE OF HIGH-SPEED RAIL IN SOUTH AFRICA – T Kgobe , Gautrain
15:00 – 15:30	REFRESHMENTS
15:30 – 16:00	PROPULSION ENERGY CONSIDERATIONS FOR RAIL APPLICATIONS IN SOUTH AFRICA – C Snyman , Electric Vehicles & Solar Energy
16:00 – 16:30	HIGH SPEED RAIL DEVELOPMENT - G Ge , China Railway Rolling Stock Corporation (CRRC)
16:30 – 17:00	DISCUSSION
17:10	BUS DEPARTS FOR APPOINTED HOTELS

WEDNESDAY, 12 JULY

07:30 – 08:30	REGISTRATION AND REFRESHMENTS
08:10	Briefing for presenters and chairs in the respective venues
08:30 – 09:25	PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand
09:25 – 09:30	Plenary breaks up into parallel sessions
SESSION 3D – MARITIME	
SESSION CHAIR: Mr Tebogo Mojafi, South African Maritime Safety Authority (SAMSA)	
09:30 – 10:00	THE MARITIME INDUSTRY REGULATED FOR SUSTAINABILITY – AN INDUSTRY THAT GROWS, AN INDUSTRY THAT CONTRIBUTES TO THE ECONOMY, AN INDUSTRY THAT OPERATES RESPONSIBLY, BUT MORE SO AN INDUSTRY THAT COMPLIES TO B-BBEE – K Selokane , Heron Marine
10:00 – 10:30	SOUTH AFRICAN SHIP REGISTER PROMOTION STRATEGY – S Bhengu and L Mudau , South African Maritime Safety Authority
10:30 – 11:00	REFRESHMENTS
11:00 – 11:30	MARITIME GAME CHANGERS IN SOUTH AFRICA- K Ngubane , Mnambithi Group
11:30 – 12:00	THE PORT INFRASTRUCTURE INVESTMENT IN SOUTH AFRICA - S Mdlalose , Transnet
12:00 – 12:30	THE IMPLEMENTATION OF TRADE SINGLE WINDOW SYSTEM: CASE OF KENYA – M Issa , Kenya Trade Network Agency
12:30 – 13:00	THE ECONOMIC IMPACT OF OPERATIONAL INEFFICIENCIES IN SA PORTS AND THE ROLE OF THE PORTS REGULATOR - N Nkowane , Ports Regulator
13:00 – 14:00	LUNCH
14:00 – 14:30	UNDERSTANDING THE PLIGHT AND CHALLENGES FACING SOUTH AFRICAN SEAFARERS - L Grimett , Moses Kotane Institute
14:30 – 15:00	BEST PRACTICES FOR ABANDONED, LOST OR OTHERWISE DISCARDED FISHING GEAR (ALDFG) IN AFRICA - D Marlin , Sustainable Seas Trust Africa
15:00 – 15:30	REFRESHMENTS
15:30 – 16:00	TRANSITIONING SHIPPING TO DECARBONISE THROUGH MARKET BASED MEASURES – G Dominioni , Dublin City University
16:00 – 16:30	THE POTENTIAL IMPACT ON STATES OF TECHNICAL AND ECONOMIC MEASURES IN IMPLEMENTING THE IMO GHG STRATEGY – J Hoffmann , UNCTAD, SWITZERLAND
16:30 – 17:00	SUMMARY OF THE DAY
17:10	BUS DEPARTS FOR APPOINTED HOTELS

THURSDAY, 13 JULY

07:30 - 08:30	REGISTRATION AND REFRESHMENTS
08:10	Briefing for presenters and chairs in the respective venues
SESSION 4B – URBAN MOBILITY	
SESSION CHAIR: Dr Megan Bruwer, Stellenbosch University	
08:30 – 09:00	POST-COVID TRAVEL BEHAVIOUR IS AS THE 'OLD-NORMAL' - P Onderwater , Hatch Africa
09:00 – 09:30	MEASURING THE IMPACT OF COVID-19 ON MOBILITY IN GAUTENG PROVINCE, SOUTH AFRICA - B Marole 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 , University of Cape Town, M Bruwer, Stellenbosch University, 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
10:30 – 11:00	REFRESHMENTS
11:00 – 11:30	TOWARDS THE EMPOWERED COMMUTER: EXPLORING INFORMATION BEHAVIOUR OF INFORMAL PUBLIC TRANSPORT USERS - C Venter , 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	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
12:00 – 12:30	RELATIONSHIPS BETWEEN RESIDENTIAL RELOCATION, TRAVEL BEHAVIOUR AND HOUSEHOLD AFFORDABILITY: THE CASE OF THE ROODEPOORT REGIONAL NODE IN JOHANNESBURG - R Khoza and R Behrens, University of Cape Town
12:30 – 13:00	DISCUSSION SESSION: TRAVEL BEHAVIOUR AND TRAVEL CHOICES
13:00 – 14:00	LUNCH
SESSION CHAIR: Prof Roger Behrens, University of Cape Town	
14:00 – 14:30	SOCIAL FACILITY PLANNING: COMPARING ACCESSIBILITY IN TSHWANE BASED ON DIFFERENT TRANSPORT NETWORKS - R Komane , CSIR and DJ du Plessis, Stellenbosch University and Q van Heerden, CSIR
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 L Kihonge , Flone Initiative KENYA
15:00 – 15:30	REFRESHMENTS
15:30 – 16:00	BREAKING BARRIERS TO INCREASE THE PARTICIPATION OF WOMEN IN CYCLING IN NAIROBI CITY COUNTY - R Gitau , Flone Initiative KENYA
16:00 – 16:30	BICYCLE MOBILITY IN SOUTHERN AFRICA: A MARKET SYSTEM INVESTIGATION INTO DEMAND AND USE – W Sambu and G Jennings
16:30 – 17:00	DISCUSSION
17:10	BUS DEPARTS FOR APPOINTED HOTELS

THURSDAY, 13 JULY

07:30 - 08:30	REGISTRATION AND REFRESHMENTS
08:10	Briefing for presenters and chairs in the respective venues
SESSION 4D – PUBLIC PRIVATE PARTNERSHIP WORKSHOP THIS SESSION IS SPONSORED BY PEGASYS	
SESSION CHAIR: Ms Laverne Dimitrov, DBSA	
08:30 – 08:45	SPONSOR PRESENTATION: PEGASYS
08:45 – 10:30	PANEL DISCUSSION: SHOWCASING THE BUSINESS MODELS THAT WERE DEVELOPED AND IMPLEMENTED BETWEEN THE MINIBUS TAXI (MBT) INDUSTRY, COMMERCE AND THE PUBLIC SECTOR: • HOW WE ARE PRACTICALLY INTRODUCING SOUTH AFRICA'S FIRST BATTERY ELECTRIC MINIBUS-TAXI, A COLLABORATION BETWEEN GOVERNMENT AND PRIVATE SECTOR - J Coetzee, GoMetro • "A FUNDER'S PERSPECTIVE ON ROLLING OUT ELECTRIC VEHICLE TRANSPORT"- N Fredericks, IDC • REGULATORY REFORM AND THE ETHICS OF ROLLING OUT A GOVERNMENT SUPPORTED QR SYSTEM IN THE MINIBUS TAXI SECTOR - K Muronga, CSIR DISCUSSION
10:30 – 11:00	REFRESHMENTS
11:00 – 13:00	PANEL DISCUSSION: DIGITALISATION AND TECHNOLOGY CASE STUDIES USING DEMAND RESPONSIVE TECHNOLOGIES DESIGNED BY COMMERCE FOR THE PARATRANSIT SECTOR: • THE USE OF DATA AND TECHNOLOGY TO INFORM INVESTMENT DECISIONS BY THE MBT INDUSTRY FOR THE INDUSTRY – CASE STUDY - S Mhlanga, CSIR • SIYAPHAMBILI, PRE-PAID TAXI SYSTEM, A REFLECTION OF A SUCCESSFUL CASE STUDY - C Blanckenberg, Siyaphambili • PILOT STUDY FOR TAXI AND BOOKING SYSTEM TO ENHANCE MUNICIPAL DECISION MAKING – L Dimitrov, DBSA DISCUSSION
13:00 – 14:00	LUNCH
14:00 – 14:30	INNOVATIVE FUNDING MECHANISMS FOR PUBLIC TRANSPORT - K Kwinana , Pegasys Strategy and Development, C Rabe, Palmer Development Group, M Weber and P Koch, Pegasys Strategy and Development
14:30 – 15:00	ROAD FUNDING OPTIONS: A CASE STUDY OF HOW GAUTENG CAN COVER THE 14.1 BILLION RAND E-TOLL DEBT AND 6.9 BILLION RAND REFUNDS - MM Muthige , Pegasys Strategy and Development
15:00 – 15:30	REFRESHMENTS
END OF SESSION (Delegates may join other sessions)	

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

PAYMENT IS REQUIRED IN ORDER TO ATTEND TO RECEIVE THE CONFERENCE LINK.

We look forward to welcoming you at SATC 2023