

CONFERENCE PROGRAMME AND BOOK OF ABSTRACTS



ICTA2015



AFRICAN TRANSPORTATION
PROFESSIONAL NETWORKING GROUP

2ND INTERNATIONAL CONFERENCE ON TRANSPORTATION IN AFRICA
Majestic Five Hotel, Palapye, Botswana
25th – 27th November 2015

“Enhancing Safe and Sustainable Transport Infrastructure in Developing Countries”



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Ministry of Transport
and Communications
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Organisers: African Transportation Professional Networking Group
in collaboration with Transport Stakeholders, Universities and Professionals.

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“Enhancing Safe and Sustainable Transport Infrastructure in Developing Countries”
Tuesday, November 24, 2014

14:00-18:00 Pre-Registration of Participants at Majestic Five Hotel, Palapye, Botswana
Day 1: Wednesday, November 25, 2015

07:00-08:00 Registration of Conference Participants

Time	Description	Speaker/Title	Organisation & Country
08:00-8:05	Opening Session: Chaired by Opening Prayer & National Anthem	Mrs G. Morekisi Permanent Secretary	Ministry of Transport & Communications, Botswana
08:05-8:15	Introductory Remarks	Prof. J. Katende Dean, College of Eng.&Tech.	Botswana Int'l University of Science & Technology (BIUST), Botswana
08:15-08:30	Welcome Remarks	Prof. J. Cooke Ag. Vice Chancellor	BIUST, Botswana
08:30-09:00	Official Opening	Hon. Tshenolo A. Mabeo, MP Minister	Ministry of Transport & Communications, Botswana
09:00-09:15	Brief Overview of African Community Access Programme (AFCAP)	Nkululeko Leta Regional Technical Manager	AFCAP, UK
09:15-09:45	Keynote Presentation: Safe and Sustainable Transport Infrastructure in Africa-A New Approach	Prof. P. Paige-Green Extraordinary Professor	Tshwane University of Technology, South Africa
09:45-10:00	Presentation of Gifts, Vote of Thanks and Group Photo	Dr. A. S. Oladele Chair ICTA2015	BIUST, Botswana
10:00-10:30	Tea Break		
10:30-12:45	Room A: Road Transport & Sustainability Issues Chair: Mrs. K. Kalasi, Ag. Director, Roads Department, Botswana	Room B: Sustainable Rail and Air Transportation Chair: Mr. J. Ramontsho, Botswana Railways, Botswana	
(20 minutes for each presentation, followed by 10minutes discussion and 15minutes for combined resolutions)	<p>Practical Steps in Transforming the North South Corridor from Transport Corridor to an Economic Corridor - B. Mdlankomo (Cross-Border Road Transport Agency, South Africa)</p> <p>Sustainable Product Service Systems in the transportation industry: The case of urban areas in Botswana – Y. Rapitsenyane (University of Botswana, Botswana)</p> <p>Sustainable Transport Infrastructure in a Changing Climate - J. Ngoma (Meteorological Services Department, Zimbabwe)</p> <p>Development of Sustainability Plan for Namibia Road Transportation – A Model for Developing Countries – P. Hekandjo(Roads Authority, Namibia)</p>	<p>Critical success factors for a high speed rail network on the African continent - M. Mokonyama (CSIR, South Africa)</p> <p>The Effects of ICT on Sustainability and Safety of the Railways in a Developing Country – L. T. Gaolemoge (Botswana Railways, Mahalapye, Botswana)</p> <p>Aviation Safety Case Study 911 and the Lockable Door - O. B. Moakofi (Civil Aviation Authority, Botswana)</p> <p>The Reliability of Air Transport in Botswana – S. Iketleng (University of Botswana) and A. S. Oladele (Botswana International University of Science & Technology, Botswana)</p>	
12:45-13:45	Lunch Break		

13:45-15:30	Room A: Low Volume Roads & Rural Accessibility Chair: Mr. L. Nkululeko, Regional Technical Manager, AFCAP, UK	Room B: Safe Mobility & Traffic Safety Issues Chair: Mr. B. Modukanele, Ag. Director, Department of Road Transport & Safety, Botswana
	<i>Are we doing unnecessary or incorrect material testing for low volume roads? - P. Paige-Green (Tshwane University of Technology, South Africa)</i> <i>An Alternative Approach to the Design of Low Volume Roads Based on the Dynamic Cone Penetrometer - M.I. Pinard (Infra Africa Pty (Ltd), Botswana)</i> <i>Learning with Older People about their Transport and Mobility Problems in Rural Tanzania - G. Mulongo (Tanzania)</i>	<i>Innovation and Technology to address the Road Safety challenges in Africa – J. Coetzee (ITS Engineers, South Africa)</i> <i>Trend Analysis of Road Traffic Fatalities in Malawi – G. M. Ngwira (Road Traffic Directorate, Malawi); B. Bolaane and B. P. Parida (University of Botswana)</i> <i>Accident Alert and Autodial System - T. E. Mashayahanya (Chinhoyi University of Technology, Zimbabwe)</i>
15:30-16:00	Tea Break	
16:00-17:30	Room A: Analysis, Design & Construction Chair: Dr. M. W. Letshwenyo, Ag. HOD, Civil & Environmental Engineering, BIUST, Botswana	Room B: Application of GIS in Transportation Chair: Prof. Felicia Akinyemi, Department of Earth & Environmental Science, BIUST, Botswana
	<i>Redesign of the Decommissioned Dande (Mbire) River Bridge in Zimbabwe - T. R. Munengwa, S. Shumba and A.S. Salahuddin (University of Zimbabwe, Zimbabwe)</i> <i>Delay Study of Road Construction Project in Botswana B. T. Motlakasi and A. Y. Adeyemi (University of Botswana, Botswana)</i> <i>Road Drainage Systems in Palapye: Suggestions for Adaptation to Storm Water Runoff and Floods - T. M. Bafithile and A. S. Oladele (Botswana International University of Science & Technology, Botswana)</i>	<i>Transport Modelling in GIS – E. Tembo and B. Nkwae, (University of Botswana, Botswana)</i> <i>Design of a Public Transport Web Mapping Service (WMS) for the city of Gaborone – L. Maphale, L. K. Sereetsi, K. Moreri, M. B. Manisa (University of Botswana, Botswana)</i> <i>Suitability of GPS Derived Heights for Civil Engineering Projects (Roads) – M. Manisa, L. Maphale, M. Segobye and K. Ntsosa, (University of Botswana, Botswana)</i>
19:00-21:00	Welcome Cocktail	

Time	Day 2: Thursday, November 26, 2015	
08:00-10:00	Room A: Pavement Materials & Procurement Chair: Mrs. L. Mothudi , Chief Technician, Civil & Environmental Engineering, BIUST, Botswana	Room B: Transport & Traffic Management Chair: Mrs. M. Mabua , Transit Specialist, USAID Southern Africa Trade Hub, Botswana
(20 minutes for each presentation 10 minutes for discussion and resolutions)	<i>Stabilization of Expansive Clay Soil with Sugar Cane Molasses and Cement</i> – A. A. Araya, B. Taye (Alert Consult Engineering Plc, Ethiopia) <i>A Case Study for the Use of Limestone as a Road Base: Strategy for Testing for Compliance with Specifications</i> – B. Musarurwa, A. Zonde, M. Z. Mashingaidze, M. Caetano (Department of Roads, Zimbabwe) <i>Impacts of Secondary Minerals in aggregates on Road Pavements Performance</i> – N. Bloxsom and J. Egwurube (Central Queensland University, Australia) <i>Sources of Claims on Road Construction Projects in Botswana</i> – O. Segwabe and A. Y. Adeyemi (University of Botswana, Botswana)	<i>Estimation of delay at Pre-timed Signalized Intersections for mixed traffic conditions in Gaborone</i> - B. B. Madzikigwa, University of Botswana, Botswana) <i>Design of an Automated Speed Warning System Interfaced with Intelligent Braking System for Road Vehicles Collision Avoidance</i> - D. Simango, R. Muvunzi, H. Musaidzi, P. Mlamb, Zimbabwe) <i>Traffic Congestion and Mobility Solutions for Francistown Road Transportation Network Systems</i> - M. Segola and A. S. Oladele (BIUST, Botswana) <i>Evaluation of the Effectiveness of Palapye Road A1 Intersections to mitigate Traffic Congestion</i> – S. Busang and A. S. Oladele (BIUST, Botswana)
10:00-10:30	Tea Break	
10:30-12:45	Room A: Pavement Performance & Maintenance Chair: Dr. A.S. Oladele , Dept. of Civil & Environmental Engineering, BIUST, Botswana	Room B: Route Location & Mass Transit Chair: Dr. B. Nkwae , Civil Engineering Department, University of Botswana, Botswana
(20 minutes for each presentation 10 minutes for discussions and 15minutes for resolutions)	<i>Early Post-Construction Pavement Failures: Lessons Learnt For Enhancing Pavement Sustainability</i> – M. B. Mgangira (CSIR, Pretoria, South Africa) <i>Pavement Predictive Equations-a Key Component of Pavement Management Systems</i> – G. Lebitsa (University of Botswana) and K. Mmopa (Roads Department, Botswana) <i>Performance Equation for Cement Modified Pavements</i> – A. Matanovic and J. Egwurube (Central Queensland University, Australia) <i>Impact of Road Network on the Regional Trade in Africa</i> – H. Ghoniem & S. Zaghoul (Egypt)	<i>Exploring the links between access to schools in rural communities: the case of Chikhwawa District, Malawi</i> – W. Kuoacha, I. Ngoma, (University of Malawi, Malawi) and N. Ferguson (University of Strathclyde, Glasgow) <i>The Role of Truck Stops in Strengthening the Maputo Transport Corridor Intelligence through Data Generation.</i> - B. Mdlankomo and E. Chibira (Cross-Border Road Transport Agency, South Africa) <i>The Introduction of a Bus Rapid Transit (BRT) System Link Between Harare and Chitungwiza, Zimbabwe</i> – A. Mudzingwa , S. Shumba and L.D. Vassileva (University of Zimbabwe, Zimbabwe) <i>Rural Accessibility and Sustainable Infrastructural Development in the Niger Delta: A Polycentric Planning Perspective</i> - S. R. Akinola and A. I. Odulu (Osun State University, Nigeria)
12:45-13:45	Lunch Break	
14:00-15:30	Workshop/Panel Discussion Session 1 Facilitated by: Conference Sponsors	Workshop/ Panel Discussion Session 2 Facilitated by: Conference Sponsors
15:30-16:00	Tea Break	
16:00-17:30	Workshop/Panel Discussion Session 1 Continues	Workshop/Panel Discussion Session 2 Continues

19:00-22:00

Conference Dinner

Day 3: Friday, November 27, 2015

Time	EXCURSION/FIELD TRIP	EXCURSION/FIELD TRIP
8:30-12:30	Site visit - Group 1: On Going Dualisation Project Along A1 Road for International delegates on the way back to Sir Seretse Khama International Airport at Gaborone/ Francistown Airport.	Excursion – Group 2: Khama Rhino Sanctuary in Serowe Central to view white and black rhinos, giraffes, zebras, wildebeests, warthogs, springboks, impalas
13:00-14:00	Lunch Break & End of Conference	