



INTERNATIONAL TRANSPORT AND ROAD RESEARCH CONFERENCE & EXHIBITION 2016

15TH - 17TH MARCH 2016
SAROVA WHITESANDS HOTEL, MOMBASA, KENYA

Transport Solutions to Transform Lives

CONFERENCE PROGRAMME

1

SCHEDULE



Mon 14th March 2016: Registration of Delegates and issuing of conference materials

PLENARY SESSION 1

8:00 AM – 8:30 AM Registration and Exhibition official opening

Session Chair: Eng. P.C. Kilimo

- Overview of TRARR Conference Arrangements by Eng. Benjamin Maingi, Joint Organizing Committee
- Brief Statements by Main Sponsors: World Bank, Bamburi Cement
- Introduction to Research and Community Access Partnership by Mr. Jerome Rich, Project Director, ReCAP
- State of Transport Research and Knowledge in Sub-Sahara Africa and brief on African Roads and Transport Research Forum (ARTReF) by Eng. S. Kogi, Chief Engineer Materials, MoTI
- Financing options for Road Infrastructure provision by Eng. Jacob Ruwa, Executive Director, KRB
- Provision of transport infrastructure in the region: Opportunities and Challenges by Eng. John Mosonik, Principal Secretary, MoTI
- Welcome Address by Hon. H. Joho, Governor of Mombasa County
- Official opening of the Conference by Hon. James W. Macharia, Cabinet Secretary, MoTI

10:30 AM – 11:00 AM Group Photograph, Networking coffee break and exhibition tour

PLENARY SESSION 2

8:00 AM – 8:30 AM Policies and strategies for effective Road Asset Management

Session Chair: Eng. J. Z. Ruwa

- Addressing the Road Maintenance Challenge in Africa: What can we do to solve this continuing problem? By M.I. Pinard,
- Economic Growth through Effective Road Asset Management by Robert Geddes and Kingstone Gongera
- Development of optimal road maintenance fund allocation framework by Jennaro B. Odoki and Michael M. Odongo
- An investigation on the Influence of Institutional Capacity & Applicability of Technology in Implementation of URRAP: The cases study of Tigray Region. By Daniel H. Gebre* and Alemgena A. Araya**
- Plenary discussions and Way Forward

10:30 AM – 11:00 AM Introduction to conference site visits by Eng. J. Mbarua, Technical Sub-Committee Chairman

10:30 AM – 11:00 AM Networking lunch

PLENARY SESSION 3

8:00 AM – 8:30 AM Engineering Design improvements

Session Chair: Eng. S. K. Kogi, Chief Engineer Materials

- Low Cost Bitumen Standard Roads in Central Kenya: A Case Study on Mackenzie – Kandara (D415) Road by Albert Ndege
- Prediction Of CBR using DCP For Local Subgrade Materials by Gebremariam G. Feleke* and Alemgena A. Araya**
- Monitoring and evaluation of research trial sections: cases of laterite gravel base course and Otta seal surfacing options by Alemayehu Endale
- Presentation by MTRD – Eng. Wanyiri

15:30 – 16:00 Tea Break

BREAKOUT SESSION

16:30 – 17:30

WORKSHOP 3A: A New Specification for the Effective Management of Rural Roads (AFCAP sponsored)

Time	Item
5 mins	Introduction
10 mins	Maintenance of Rural Roads in Africa: 2015 Status Update
5 mins	Clarifications on the presentation
15 mins	Presentation on Draft Specification (see separate abstract)
5 mins	Clarifications on the presentation
10 mins	Comments by panel of experts
30 mins	Facilitated discussion with questions/comments from the participants
10 mins	Summary of key points arising



PLENARY SESSION 3 B

Enhancing public transportation systems in large cities in Africa

Time	Item
5mins	Introduction
	Presentations:
15mins	Introducing a Bus Rapid Transit system in Nairobi by Eng. M. Njunge, Nairobi Metropolitan Authority
15mins	Ropeways in the Urban Environment by Dr. Eustace Mwarania
15mins	An Analysis of the Introduction of Bus Rapid Transit (BRT) Systems in Urban Areas: Case Study of the BRT Link between Harare and Chitungwiza, Zimbabwe by Samson Shumba
15mins	Application Of SERVQUAL Model In Public Transport: A Review by Thomas Kolawole OJO
20mins	Plenary Discussions
5mins	Workshop resolutions and way forward

19:00 Welcome Cocktail

2

SCHEDULE



10:30 AM – 11:00 AM Registration and Exhibition tour

PLENARY SESSION 5

8:00 AM – 8:30 AM Monitoring performance of transport networks

Session Chair: Eng. P. Mundinia, Director General, KeNHA

- Macroscopic Modeling of the Impacts of Freight Traffic on the Performance of the Northern Corridor Road Transport Network by Prof O.O. Mbeche
- Can Humans Predict the Future? Consequences of Inaccurate Traffic Forecasting by Endale I, A. A.; Otto2, A.; Melaku3, A.
- Configuration and Calibration of HDM-4 Kenya Workspace by Prof. Odoki
- Assessment of Drivers' Behavior At Selected Signalized Intersections in Abuja Metropolis, Nigeria by George Omange
- Plenary discussions and Way forward

10:30 – 11:00

Networking coffee break and exhibition tour

BREAKOUT SESSIONS

11:00 – 12:30

WORKSHOP 6A: Implementing Road asset management systems in Kenya (KRB)

Session Chair: Eng. B.K. Maingi

Time	Item
5 mins	Introduction
10mins	Road Asset Management systems for effective decision making by Eng. F. Gitau, MoTI Dept. CER
10mins	Roads data integration challenges by A.M.V. Kimani, KRB GIS Admin
10mins	Overview of Road Maintenance System in use in Kenya by Eng. J. Gakubia, Manager Maintenance, KeRRA
10mins	GIS solutions in road asset management by Willy Simmons, Managing Director, ESRI EA
10mins	Data quality requirements for asset management planning by Prof. J. Odoki, RSIP Consultant
25mins	Plenary Discussions
10mins	Summary and Key recommendations

PLENARY SESSION 6B

Building climate resilient infrastructure

Session Chair: Eng. S. Omer, GM, KeNHA

- Adaptation to and mitigation against climate change impacts in the transport sector, Kenya by **Zedekiah Onyando**
- Cost effective sustainable slope protection solution of rural roads at flooding regions by **Md. Abul Kalam Azad**
- Effective Implementation of Environmental Management Strategies during road Construction in Kenya. What are the Determinants? by **Walter B. Nyatwanga**
- Plenary Discussions
- Summary and Key Recommendations

WORKSHOP SESSION 6C: Geometric Standards for Low Volume Roads and Implications for Road User Safety (AFCAP)

Session Chair: Leta Nkululeko, ReCAP

- Introduction (10mins)
- Presentations (60mins):
 - A Paradigm Shift in Geometric Design of Low Volume Rural Roads by **Jon Hongve**
 - Alternative surfacings (bituminous and non-bituminous) on LVR and their appropriateness or otherwise for rural road users
 - Road traffic injury in Tanzania: Preparation of a district engineers' guidance note for motorcycle safety on low volume roads by **Tom Bishop**
- Plenary Discussions (20mins)
- Summary and Key recommendations (10 mins)

12:20 – 13:30

Networking Lunch

14:00 – 18:00

Session 7: Site visits to various ongoing Transport Infrastructure Projects (Assemble at 13:30 at buses)

- Construction of Port Reitz and Dongo – Kundu roads
- Expansion of Mombasa Port
- Construction of Mombasa – Nairobi Standard Gauge Railway
- Haller park: restoration of ecosystems

3

SCHEDULE

Thursday



08:00 – 8:30:

Registration and Exhibition tour

PLENARY SESSION 8

08:30– 10:30

Session Chair: Eng. J. Ogango, Director General,

- Implementation of multi-sectoral program: Key lessons learnt from Northern Corridor Transport Infrastructure Project by **Eng. J. Theuri**, World Bank Financed Projects Coordinator, MoTI
- Enhancing Intra-Regional Trade: Standard Gauge Railway by Kenya Railways
- Addressing First Mile Transport Challenges For Smallholder Farmers by **Grace Nyambura Muhia**
- Tanzania motorcycle taxi rider training: assessment and development of appropriate training curriculum by **Caroline Barber**
- Roads 2000 program: Promoting labour Based techniques in roads provision by **Eric Goss & Henry Orwa**
- Plenary discussions and Way forward

10:30 – 11:00

Networking coffee break and exhibition tour

PLENARY SESSION 9A

11:00 – 12:30

Gender mainstreaming in Transport Sector (AFCAP)

Session Chair: Mr. Simon Ndubai, Vice Chair, National Gender and Equality Commission

- Sharing of Experiences on Gender Mainstreaming in Transport Sector by panel of transport sector stakeholders (45mins)
- Plenary Discussions (30mins)
- Summary and Key Recommendations (15mins)

10:30 – 11:00

Networking coffee break and exhibition tour

PLENARY SESSION 9B

11:00 – 12:30

Transport and Safety

Session Chair: Eng. Rosemary Kungu, IEK Council Member To be named

The Effect of Fatigue on Driving: A Case Study in Cape Coast Metropolis by Dr. Ogunleye-Adetona

An Assessment of Non-Motorized and Public Transport Challenges For People with Disabilities in Nairobi City by Paul Owino Odak

Linking Knowledge and Practice: A Case of Boda Boda Motorcycle Safety In Kenya by Dr. Gladys Moraa Nyachio

Initial Results from Trial Sections constructed in Tanzania by Eng. Dr. Fikiri Fredrick Magafu I and Eng. Benoit Verhaeghe2

Plenary discussions and Way forward

PLENARY SESSION 9C

TRAFFIC MANAGEMENT

Session Chair: Eng. S. Kinoti, Ag. Director General, KURA

Enhancing Mobility in Kenya Counties through Strategic Policies Formulation by Dr. Romanus Opiyo

Benchmarking Best Practices in Addressing Traffic Congestion in Sub Saharan Africa Cities by Eng. Meshack Ochieng and Prof. O. O. Mbeche

Potentials of GNSS and GSM Technology in Road Traffic and Speed Management in Kenya by Charles Kigen

Plenary discussions and Way forward

12:30 – 13:30 Networking lunch

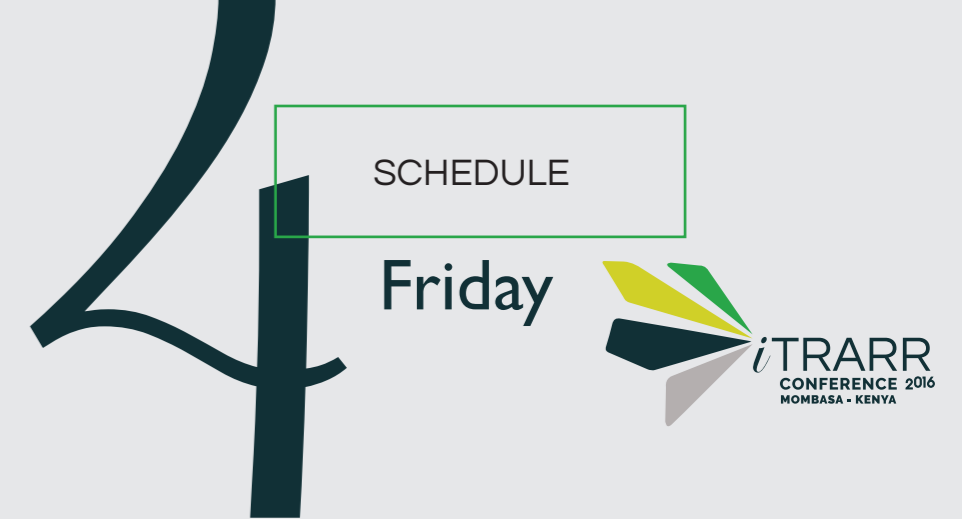
PLENARY SESSION 10

14:30 – 15:30

Wrap up and closure of conference

- Summary of Key Issues and Conference Recommendations by **Eng. S. Kogi**
- Vote of Thanks by Conference Participant
- Presentation of Awards
- Official Closure of the Conference

19:00 Gala Dinner



Thursday

10:00 – 13:00 Organized Tours to local sites of interest/ shopping

13:00 – 14:00 LUNCH

14:00 – 16:00 Organized Tours to local sites of interest/ shopping