List of Papers Accepted for the Conference

All papers were peer reviewed and are listed in author surname order.

- Development of an ontology based expert system for determining the performance indicator of HMA pavements (Abejide, et al)
- Heavy Duty Asphalt Pavements and IMO (International Maritime Organization) 2020 implications (Beer)
- A Comparison Between Sustainability Practices in Road Construction (Bennett, van Wijk)
- Fatigue assessment of conventional and highly modified asphalt materials with ASTM and AASHTO standard specifications (Blankenship, Rowe)
- An investigation into the best fit-for-purpose bond coat used between composite pavement layer on National route 2 section 1 (Botes, et al)
- Performance testing at high service temperatures of asphalt mixtures for airfield pavements (Botha, Mooren)
- Impact of Probability Density Function on Indicators Relating to Pavement Performance for Flexible Pavement Structures (Cromhout, et al)
- Design and Construction of state of the Art Durable Asphalt Surface and Ensuring Predictable Handling Characteristics on Kyalami Race Circuit (du Preez, et al)
- The effect of ageing on bituminous seal binder rheology (Engelbrecht, et al)
- Evaluating the Moisture Susceptibility of Hot-Mix Asphalt with Recycled Crushed Glass (George, et al)
- Formulating a Master Curve using one DSR Isotherm and BBR Data (Gerber, et al)
- Revision of TG3 - From Asphalt Reinforcement to Subgrade Stabilisation (Gewanlal, et al)
- Extraction and Recovery of Bituminous Binders from Chip Seal Samples (Goosen, Jenkins)
- The Potential Impact on Locals through the Road Transportation Sector (Govender, et al)
- Increasing pavement structural capacity through the use of an asphalt geogrid: A case study (Hartman)
- Talent Management a focus in a Transport Infrastructure Branch (Hofmeyr)
List of Papers Accepted for the Conference - continued

- A Paradigm shift on permeability of thin asphalt surfacings (Horak)
- TG2 (2019) removes barriers and elevates the performance of bitumen stabilised materials (BSMs) (Jenkins, et al)
- Evaluation of the Suitability of the Automated Mixing Test in Determining the Workability of Slurry Surfacing Mixes (Johannes, et al)
- Development and Implementation of Performance Grade Specifications for Asphalt Rubber Binder (Jones, et al)
- Testing of granular/soil characteristics for the optimisation of pavement designs using reactive stabilising agents including “new-age” nano-technologies (Jordaan, Steyn)
- Storage Stability Evaluation of Homogenous Polymer Modified Binders (Kahaar, et al)
- Distribution of air voids in compacted Hot-Mix Asphalt samples – laboratory vs field (Komba)
- Cationic bitumen emulsion rheologically modified using high shear low flow technology (Lambert, et al)
- A study into the skidding resistance of roads in the province of Kwa-Zulu Natal – status quo and proposals for further investigation (Lewis, et al)
- Performance of proprietary French gap-graded - high modulus asphalt on a heavily trafficked road in South Africa (Lewis, et al)
- Sustainable Road Rehabilitation Solution using Reclaimed Asphalt: Camps Bay Drive Case Study (Llewellyn, et al)
- New Crumb Rubber Technology - a life cycle extender for Porous Asphalt (Mafuma, et al)
- Qatar Initial Experience using Increased Reclaimed Asphalt Content to Produce Recycled Asphalt (Maina, Khnaizer)
- Performance of Bitumen Stabilised Materials using Recycled Concrete Aggregate (Mazibuko, et al)
- Adapting Asphalt Pavements to Climate Change Challenges (Mokoena, et al)
• Fatigue Testing - Unfortunately a time consuming and costly affair (Molenaar, et al)

• Sensitivity of flexible pavement system response to truck speed: The case of thin surfaced granular base, cemented base and bitumen treated base pavement structures (Mshali, Steyn)

• Possibility of using Xenon arc chamber Weatherometer as an aging calibration tool for bitumen binder (Mukandila, Steyn)

• The development of a method for evaluating adhesion promoter dosage level and effectiveness in asphalt applications (Muller, Mafuma)

• The use of Superpave N300 gyrations minimum void specification as rut resistance measure: A critical appraisal (Muller)

• Fatigue Resistance Properties of Glass Fibre Grid Reinforced EME (Mulol)

• The influence of the characteristics of emulsifying agents on the stabilisation of granular materials using nano-silane modified bitumen emulsions (Murphy)

• Towards the development of grey water resistant asphalt (Nel, et al)

• Rehabilitation of salt-damaged asphalt surfacings with bitumen-rubber and other seals (Netterberg, Bergh)

• Elongational Rheology of Bitumen Film Samples as a Fingerprinting Technique (Nkuna, et al)

• Recycled High Density Polyethylene in Asphalt (Nortje, Seforo)

• The prioritisation and adaptation for climate change resilience of rural access roads (Paige-Green, Verhaeghe)

• Does a national proficiency testing scheme assist in improving the confidence in laboratory test results? (Pearce)

• Influence of On-Paver Spraybar Technology on Bond Strength of Asphalt and Pavement Life (Pienaar, et al)

• Understanding Binder Replacement and the Impact it has on Asphalt Recycling (Rajkumar)

• A proposed national protocol for performing frequency sweeps on bituminous binder (Rampersad, et al)

• Paving the way to an optimal road surfacing policy in South Africa (Ross, et al)

• The employment benefits from sealing gravel roads in South Africa (Ross, et al)

• The change in the physical properties of asphalt binders with conditioning (Rowe)

• The development of the Delta TC and Glover-Rowe parameters for the control of non-load associated cracking (Rowe)
List of Papers Accepted for the Conference - continued

- A study of change in the response of recycled concrete aggregate used in pavement layers when self-cementation occurs (Rudman, et al)

- Evaluation of a nano-silane-modified emulsion stabilised base and subbase under HVS traffic (Rust, et al)

- Evaluation of novel chip seals applications during periods of low temperatures (Steyn, et al)

- Training and Educating Pavement Engineer 4.0 (Steyn)

- Cellular Confinement System Reinforcement – Innovation at the Base of Sustainable Pavements (Strahl, Alexiew)

- Gussasphalt (GA) as steel deck pavement for Africa’s longest suspension bridge in Maputo (MZ) (Swanepoel, et al)

- A grading-based, performance-related classification of unbound granular material (Theyse, Kannemeyer)

- Performance Testing of Enrobé à Module Élevé Asphalt (Thomas, et al)

- Waterbound Macadam Construction on the N8 Truck Stop at the Maseru Border Post: A Case Study (Tsemane, et al)

- Disruptors in Transportation (Treurnich)

- Advancing sustainable practice - finding a common voice and approach to sustainability for the South African roads sector (Uken, et al)

- Design and construction of Enrobé à Module élevé (eme) on the National route 1, North East of Paarl in the Western Cape Province of South Africa (Van Heerden, et al)

- Asset preservation through effective reseal programs in Namibia (Van Zyl, et al)

- Stripping of seals in South Africa: Case studies and guidelines for an improved approach to mitigateIT (Van Zyl, et al)

- A Standardised Sprayed Sealing Specification for Australian Airports (White)

- How the Airport Pavement Research Program is filling the voids in Australian Airport Pavement Technology and Practice (White)

- Overview of Rheological, Fatigue, and Fracture Properties to Evaluate Fatigue and Thermal Cracking of Asphalt Mixtures in Northern United States (Zhang, et al)