



Circular Technology for Digital and Sustainable Roads
ISAP TC APE & CIRCOPAV WORKSHOP for Doctoral Researchers

15th OCTOBER, 2023
CHAMPAGNE SPORTS RESORT DRAKENSBERG, SOUTH AFRICA



CIRCOPAV

07:30 - 08:30	Registration
08:30 - 08:50	Welcome, ISAP TC APE & CIRCOPAV Presentation Kim Jenkins, Mayca Rubio, Gabriele Tebaldi
SESSION 1	CHAIR: Hervé Di Benedetto – Road Network Digitisation for Smart and Automated Pavement
08:50 - 09:20	G Airey – Modelling Road Friction using In-car Sensor Telematics Data
09:20 - 09:40	E Hajj – Overview of Balanced Mix Design to Reduce Carbon Footprint
09:40 - 10:00	PhD 1. Karolina Wolukanis - Low-Cost Monitoring Tools for Sustainable Roads Maintenance
10:00 - 10:20	PhD 2. Nemanja Neskovic - Role of sensors in pavement structures for continuous monitoring and predictive modelling linked to performance
10:20 - 10:35	Q & A
10:35 - 10:55	TEA/COFFEE NETWORKING BREAK
SESSION 2	CHAIR: Phil Hendricks – Pavement Sustainability to Mitigate Carbon Footprint
10:55 - 11:20	J Sias – The Importance of Climate Change Resilience for Roads
11:20 - 11:45	G Tebaldi – Road Design, Evaluation and Management with Circular Economy for Sustainability
11:45 - 12:10	F Moreno - Improving the design of sustainable asphalt pavements
12:10 - 12:50	PhD 3. Walter Mera – Asphalt Pavements to Mitigate Extreme Weather Conditions in Cities PhD 4. Andressa Chaves - Development of alternative biosource and low carbone binders for pavement construction
12:50 - 13:10	Q & A
13:10 - 14:10	LUNCH
SESSION 3	CHAIR: Gabriele Tebaldi – Balanced Mix Design to Reduce Carbon Footprint
14:10 - 14:35	KJ Jenkins – Cold Recycling and Bitumen Stabilisation Technologies
14:35 - 15:05	S Miller - Real time monitoring of asphalt pavements using digital technology - implications for road design and construction
15:05 - 15:25 15:25 - 15:45	PhD 5. Stefan Trifunovic - Creating Carbon Neutral Materials, Non-fossil and Non-virgin Construction Materials. PhD 6. Ecem Nur Barisoglu – Development of Low Temperature Manufacturing Technologies.
15:45 -16:15	Q & A
16:15	CLOSURE

