



**Concrete
Roads 2023**

Krakow



14th International Symposium on Concrete Roads 2023, Krakow, Poland

Programme

Wednesday 28 June 2023



"KRAKOW II" CONFERENCE HALL

SESSION 5A THEME 3: CONCRETE ROADS AND ECONOMIC ASPECTS

09:00 - 10:30 Chairperson: Rolf Breitenbücher

PAPER TITLE	SPEAKER/AUTHOR	AUTHORS	COUNTRY
How Increasing Industry Competition Benefits The Pavement Market: And How Agencies Can Use It To Lower Their Pavement Expenditures	Leif Wathne	Jim Mack	USA
Sustainable public procurement of pavements. Barriers and international experiences	César Bartolome	Juan Luis Vilchez	Spain
Initial Construction Cost Comparison Of Roller Compacted Concrete (RCC) And Hot-Mix Asphalt (HMA) Pavements Used In The Turkish Local Road Network	Baris Akbelen	İsmail Ozgur Yaman	Turkey
Development of an Improved Protocol for Structural Evaluation of Dowel Load Transfer Systems for concrete pavements	Mark Snyder	-	USA

“LONDON” CONFERENCE HALL

SESSION 5B THEME 5: INNOVATIVE CONCEPTS FOR CONCRETE ROADS

09:00 - 10:30 Chairperson: Stefan Hôller

PAPER TITLE	SPEAKER/AUTHOR	AUTHORS	COUNTRY
Feasibility of Employing Triboelectric Energy Harvesting in Unbonded Concrete Overlays	Julie Vandebossche		USA
Development of Electrically Conductive Concrete for the City of Iowa City Sidewalk Enhancement Project	Md Lutfor Rahman		USA

THEME 4: CONCRETE ROADS AND SOCIETY

Roughness Parameters Of Roller Compacted Concrete Mixtures By An In-House Optical Surface Profiler	Ismail Yaman	Mahdi Mahyar, Dr. Emin Sengun Burhan Alam Prof. Dr. Halil Ceylan Prof. Dr. I. Ozgur Yaman	Turkey
Measurement and analysis of concrete pavement surface textures using hand-held 3D Laser Scanning technology	Alena Kühnel	Ludwig Stelzner, Frank Weise	Germany
Characteristics of Tire Pavement Interaction Noise in the Exposed Aggregate Concrete Pavement	Seung Woo Lee	Jae Hoon Kim, Young Kyu Kim, Woo Hyeong Jung, Ye in Choi, Samuel A, Seng C, Duongdarashy C, Seung Woo Lee	Korea (Republic of)

“PARIS” CONFERENCE HALL

SESSION 5C THEME 10: MAINTENANCE AND PRESERVATION STRATEGIES AND TECHNIQUES

09:00 - 10:30 Chairperson: Johan Silfwerbrand

PAPER TITLE	SPEAKER/AUTHOR	AUTHORS	COUNTRY
Reliable test procedure for the characterization of joint sealants in concrete pavements	David Ov	Robin Przondziono, Rolf Breitenbücher	Germany
Rapid Strength Concrete (RSC) Slab Performance	Michael Darter	-	USA
Fiber Reinforced Concrete Overlays	Dan King	Peter Taylor	USA
Workability properties of 3rd generation rapid hardening concrete for pavement renewals	Doğaç Özsar	Felicia Nägele, Patrick Stähli	Switzerland

10:30 - 11:00 Coffee break in the Foyer and “Krakow I” conference hall

“KRAKOW II” CONFERENCE HALL

SESSION 6A THEME 6: MATERIALS AND PAVEMENT DESIGN

11:00 - 12:30 Chairperson: Jeroen de Vrieze

PAPER TITLE	SPEAKER/AUTHOR	AUTHORS	COUNTRY
Review and Comparison of Widely-Used Concrete Pavement Design Methodologies	Eric Ferrebee	Gerald Voigt	USA
Technical requirements for the prevention of aggregate reactivity and the availability of materials	Przemysław Stałowski	Maciej Pawlik	Poland
ASR potential in lower course layers of roadway constructions	Michael Steineder	Helga Zeitlhofer, Martin Peyerl, Stefan Krispel	Germany
Design optimization for reducing environmental impact of a shrinkage Compensated concrete floor in Malaga (Spain)	Jose Manuel Lago Carrera	Aida Badaoui	Spain

“LONDON” CONFERENCE HALL

SESSION 6B THEME 7: HIGHWAYS

11:00 - 12:30 Chairperson: Thierry Sedran

PAPER TITLE	SPEAKER/AUTHOR	AUTHORS	COUNTRY
Cement concrete pavement service life – a 50-year overview	Cédric Le Gouil	Joseph Abdo, Florence Pero, Jean-Pierre Marchand	France
Concrete Pavements In Tunnels: Benefits, Design And Construction Guidelines Based On Some Belgian Case-Studies	Anne Beeldens		Belgium
Continuously Reinforced Concrete Pavement In The Yecla-Caudete Section From The A-33 Highway, Between Murcia And Albacete (Spain)	Rafael Rueda	-	Spain
New Development on the Field of Precast Concrete Slabs	Piotr Heinrich	Tim Alte-Teigeler	Poland

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“PARIS” CONFERENCE HALL

SESSION 6C THEME 10: MAINTENANCE AND PRESERVATION STRATEGIES AND TECHNIQUES

11:00 - 12:30 Chairperson: Luc Rens

PAPER TITLE	SPEAKER/AUTHOR	AUTHORS	COUNTRY
Modern repair systems for concrete pavement based on Sprint fast-setting concrete mixes	Jakub Boroński	Tomasz Rudnicki, Wojciech Kaczmarek	Poland
Distresses in CRCP due to horizontal cracking: a parameter analysis	Luc Rens	Anne Beeldens	Belgium
Rapid repair of concrete pavements using precast technology	Saima Yaqoob	Johan Silfwerbrand	Sweden
Protecting the durability of concrete road pavements and barriers by dual crystalline waterproofing tropical treatment	Radi Al-Rashed	Maher Al-Jabari	USA

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CLOSING CEREMONY

12:40 - 13:30 Chairperson:

SPEAKER

Presentation "Low Carbon Concrete Pavement: What does it mean, and how do we get there?" by **Leif Wathne**, USA

Carlos Jofré Award by **Stéphane Nicoud**, President, EUPAVE

Best Technical Paper Award by **Luc Rens**, Managing-Director, EUPAVE

Best Marketing Paper Award by **Rory Keogh**, Vice-President, EUPAVE

Conclusions and closing of the Symposium by:

Jan Deja, Executive Director, Polish Cement Association

Luc Rens, Managing-Director, EUPAVE

13:30

Lunch buffet in the Foyer and “Krakow I” conference hall

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