



**Concrete
Roads 2023**

Krakow



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

Programme

Monday 26 June 2023



"KRAKOW II" CONFERENCE HALL

OPENING CEREMONY

09:00 - 10:00 Moderated by: **Jan Deja**, Executive Director, Polish Cement Association

Luc Rens, Managing Director, EUPAVE and Engineering Consultant, FEBELCEM

SPEAKER

Krzysztof Kieres, President of Polish Cement Association

Stéphane Nicoud, President of EUPAVE

PIARC Representative

ISCP Representative

Zbigniew Kotlarek, President of Polish Road Congress

Barbara Dzieciuchowicz, OIGD

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10:00 - 10:30 Coffee break in the Foyer and "Krakow I" conference hall

"KRAKOW II" CONFERENCE HALL

OPENING SESSION 1

10:30 - 12:30 Moderated by: **Jan Deja**, Director, Polish Cement Association

Luc Rens, Managing Director, EUPAVE and Engineering Consultant, FEBELCEM

| TITLE OF PRESENTATION | SPEAKER | COUNTRY |
|--|---|---------|
| National expressway and national road construction program | Tomasz Żuchowski, President of General Directorate of National Roads and Highways | Poland |
| Concrete pavements on road bridges: the Polish experience | Tomasz Siwowski, Rzeszow University of Technology, Antoni Szydło, Wrocław University of Technology | Poland |
| Polish experience in concrete pavement construction | Igor Ruttmar, TPA , STRABAG | Poland |
| BIM technologies in road and bridge construction | Marek Salamak, Silesian University of Technology | Poland |
| The Past and Future Evolution of Load Transfer Systems | Mark Snyder, PERC In | USA |

12:30 - 13:30 Lunch in the Foyer and "Krakow I" conference hall

“KRAKOW II” CONFERENCE HALL**SESSION 2A WORKSHOP CONCRETE ROADS 4.0****13:30 - 15:00** Chairperson: Anne Beeldens

| PAPER TITLE | SPEAKER/AUTHOR | AUTHORS | COUNTRY |
|--|-----------------------|---------------------------------|---------|
| Evenness evaluation in a construction acceptance context based on high-speed mobile laser scanning data | Maximilian Sesselmann | Prof. Dr.-Ing. Andreas Großmann | Germany |
| Quality management during paving and finishing of concrete pavements by communication and documentation | Tim Alte-Teigeler | – | Germany |
| Data analysis for mixing processes in mass concrete production and real-time digitalization of the process chain from concrete production to the finished pavement for a case study in Germany | Patric Skalecki | Karl Lucas Knierim | Germany |

THEME 5. INNOVATIVE CONCEPTS FOR CONCRETE ROADS

| | | | |
|---|------------------|---|-------------|
| Extracting heat energy through the road pavement: a novel solution with porous concrete | Domenico Vizzari | Emmanuel Chailleux, Eric Genesseeux, Thierry Sedran | France |
| Durability Of High-Early Strength Concrete Remixed By Cellular Sprayed Concrete Method | Kyong-Ku Yun | Seunghak CHOI, Taeho HA, Seungyeon HAN, Kyeore LEE | South Korea |

“LONDON” CONFERENCE HALL**SESSION 2B THEME 6: MATERIALS AND PAVEMENT DESIGN****13:30 - 15:00** Chairperson: Mark Snyder

| PAPER TITLE | SPEAKER/AUTHOR | AUTHORS | COUNTRY |
|---|------------------|---|---------|
| A Comprehensive Approach to Maximize the Benefits of RCC Pavements | Fares Abdo | – | USA |
| Thin Concrete Overlays with Carbon Reinforcement for Jointed Plain Concrete Pavements as Alternative Joint Sealing | Julia Neumann | Rolf Breitenbücher | Germany |
| Comparison Of The Bonding Performance Of Two-Layer Roller-Compacted Concrete Pavements With Various Interlayer Treatments | Dr. A. G. Gungor | Dr. E. Sengun Prof. Dr. Y. Yilmaz Prof. Dr. I.O. Yaman | Turkey |
| Degradation Process of Cracks and Doweled Joints of Concrete Pavement Observed on a Circular Accelerated Pavement Testing Roadway for 5.2 million of ESWLs. | Tatsuo Nishizawa | Masaru Terada, Masayuki Yabu, Masashi Koyanagawa, Yasushi Takeuchi | Japan |

15:00 - 15:30

Coffee break in the Foyer and “Krakow I” conference hall

"KRAKOW II" CONFERENCE HALL

SESSION 3A THEME 1: CONCRETE ROADS AND THE GREEN DEAL

15:30 - 17:30 Chairperson: Dan King

| PAPER TITLE | SPEAKER/AUTHOR | AUTHORS | COUNTRY |
|---|----------------|---------------------|---------|
| Decarbonising Cement and Concrete: A CO2 Roadmap for the German cement industry | Ulrich Nolting | | Germany |
| Use Of Albedo To Reduce Carbon Emissions Of Concrete Pavement Construction | C. Donnelly | Julie Vandenbossche | USA |
| Improving pavement resiliency to flooding: a case for concrete pavements | Leif Wathne | J. Mack | USA |

THEME 2: CONCRETE ROADS AND THE CIRCULAR ECONOMY

| | | | |
|--|------------------|---|-------------|
| Assessment of the properties of concrete from a concrete surface after 80 years of use and the possibility of its use in roller compacted concrete | Tomasz Rudnicki | Robert Jurczak | Poland |
| Use of recycled rubber aggregates in concrete safety barriers: first results of the Rubost-project | Elia Boonen | Wietze Claesen, Kris Redant & Hans Van de Craen | Belgium |
| The concrete road pavement durability in a cold clima: a study of over 50 years old concrete structures in a South alpine space | Christian Paglia | C. Mosca | Switzerland |

"LONDON" CONFERENCE HALL

SESSION 3B THEME 7: HIGHWAYS

15:30 - 17:30 Chairperson: Tim Alte-Teigeler

| PAPER TITLE | SPEAKER/AUTHOR | AUTHORS | COUNTRY |
|---|--------------------|---|-------------------|
| The first concrete freeway in South Africa | Anna-Carin Brink | - | Australia |
| The first whitetopping applications in the Czech Republic | Bohuslav Slansky | Ladislav Vyslouzil, Petr Bijok, Rudolf Hela, Vit Smilauer | Czech Republic |
| Concrete pavements for modern Swedish highways | Johan Silfwerbrand | - | Sweden |
| Portland cement concrete durability evaluation in new built two-layer highway pavements in central/eastern Poland | Michal Glinicki | | Poland |
| Continuously reinforced concrete pavement and mastic asphalt in parallel, the trial site on Motorway A61 in Germany | Stefan Höller | | Germany |
| Widening of the PCHA in Asturias | César Bartolomé | Jesus Diaz Minguela, Jose Luis Carrera | Spain |

SESSION 3C THEME 1: CONCRETE ROADS AND THE GREEN DEAL

15:30 - 17:30 Chairperson: Ozgur Yaman

| PAPER TITLE | SPEAKER/AUTHOR | AUTHORS | COUNTRY |
|---|------------------|---|----------------|
| ACPA's white paper on sustainability | Eric Ferrebee | - | USA |
| Recent advances in low carbon belitic calcium sulfoaluminate concrete for greener pavements | Eric Bescher | Julio Paniagua | USA |
| Freeze-thaw durability of new air-entrained permeable concretes | Alalea Kia | | United Kingdom |
| Life cycle assessment on concrete pavement projects in Poland - a new methodology to incorporate use phase impacts | Duc Tung Dao | Koji Negishi; Eugen Florescu; Nicolas Miravalls; Jaroslaw Rokita; Tomasz Rudnicki; Łukasz Marcinkiewicz | France |
| Can geopolymers contribute to a sustainable and durable future | Jeroen de Vrieze | Wim Kramer | Netherlands |
| New construction concepts for the realization of electric road systems with dynamic inductive power transfer technologies | Frederic Otto | J. Rickwärtz, S. Stevic, J. Kolb, K. Hameyer, M. Niedermeier, R. Grajcarek | Germany |

18:45 Departure from the hotel Doubletree by Hilton Krakow for Gala Dinner at The Wieliczka Salt Mine

20:00 Gala Dinner at The Wieliczka Salt Mine
Music: Boba Jazz Band, dinner at round tables of eight people.
What to wear: black suit dress code.
You should keep in mind that the temperature below ground in the "Wieliczka" Salt Mine is approx. 17°C.
Warmer clothes are recommended.

Even if you visit the mine in the summer, you should bring a sweatshirt or sweater with you.

23:00 Return to the hotel Doubletree by Hilton Krakow from Gala Dinner at The Wieliczka Salt Mine

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