



Recycled Pavement Applications: Industry Contributions to PIARC TC4.1

Thursday, September 10

11:00 – 12:30 US EDT / 17:00 – 18:30 CEST

Registration link: <https://attendee.gotowebinar.com/register/4005135340404313616>

Global commitments to reduce carbon emissions and increase the energy efficiency of the road sector have placed greater societal expectations on road builders to deliver sustainable pavements that are affordable and scalable.

This industry panel is developed in partnership between IRF Global and PIARC's Technical Committee 4.1. It will present a comparative benchmark of the state of readiness of some of the most promising recycled pavement processes & materials, and include a discussion on the transition from prototypes today to large-scale deployment tomorrow.

Agenda

11:00-11:10

What we Want to Achieve

Brendan Halleman, Vice President, International Road Federation

Margo Briessinck, Chair of PIARC TC 4.1 "Pavements"

Prof. Kamil Kaloush, Chair of the IRF Sustainable Pavement Committee

11:10-11:25

How to Decide Whether A Rejuvenator Revitalizes Your Aged Asphalt?

Dr. Elham Fini Associate Professor, Arizona State University

This presentation will present current state of the art on the production of effective rejuvenators which do not compromise the long-term durability of restored asphalt binder. It further emphasizes the value of accounting for long-term durability of rejuvenators in addition to their immediate restoration capacity.

11:25-11:40

Concrete Pavement Recycling: Current Technology Status and Directions for Increased Implementation

Dr. Mark B. Snyder, President and Manager, Pavement Engineering and Research Consultants, LLC

Concrete pavement recycling can produce high-quality aggregate that can be used to replace natural aggregate in many construction applications, thereby increasing pavement sustainability and preserving limited aggregate resources. Decades of field experience with recycled concrete aggregate have led to the development of reliable guidance in RCA production and use, but impediments to widespread concrete recycling remain. Approaches for increased RCA implementation will be presented.

11:40-11:55

Asphalt Rubber: Benefits & Applications

Dr. Jorge Sousa, President, Consulpav

This presentation will provide an overview of the benefits of using crumb rubber in asphalt pavements. Topics will cover mixture and pavement designs, performance, environmental benefits, and emerging technologies.

11:55-12:10

Alternative Low Carbon Sustainable Binder

Jonathan Davis, Uberbinder, Inc.

Re-imagining asphalt as low carbon sustainable building material with multi-faceted higher level performance.

12:10-12:30

Roundtable Discussion – Q&A

Speakers



Prof. Kamil Kaloush
Arizona State University



Dr. Elham Fini
Arizona State University



Dr. Mark B. Snyder
Pavement Engineering and
Research Consultants, LLC



Dr. Jorge Sousa
Consulpav



Jonathan Davis
Uberbinder



Margo Briessinck
Agency for Roads & Traffic (BE)