



## GREEN PAVEMENTS LISBON 2017 IRF/RAF

### COST EFFECTIVE PAVEMENTS TODAY FOR A GREENER TOMORROW

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**Location: LNEC, Lisbon, Portugal**

**DATE: 24, 25 May, 2017**

With the signing of the Paris Agreement on Climate Change at the United Nation's 21st Conference of the Parties (COP21), it is now incumbent upon each industry to do the best they can to reduce the carbon footprint in their respective sectors. Construction and maintenance strategies for high, medium, and low volume roads can be adjusted and improved towards meeting that goal. Additionally, new and old paving strategies and materials must now be examined under this new light.

The cost-effective use of recycled crumb rubbers in mixes and pavements will be examined together with efforts from agencies and practitioners towards demonstrating that these products can indeed become a mainstream paving component.

The conference will feature agency representatives, practitioners, and researchers each sharing their experiences and views on how to build cost-effective pavements in such a manner so as to have a greener tomorrow.

#### Themes:

- Green Construction and Sustainability
- Adaptation of Road Pavements to Climate Change
- Innovation in Construction and Maintenance
- Environment Considerations in Road Projects Evaluation to Ensure Quality of Life
- Standards for Climate Change Adaptation
- Adaption of Tire Recycling Strategies to Facilitate the Higher Crumb Rubber Demands to Face Climate Change
- Pavement Performance and Cost Effectiveness of "Green" Solutions
- Carbon Tax and Road Maintenance Strategies



## Organization

- **Esteban Salinas (IRF)** [esalinas@irf.global](mailto:esalinas@irf.global)
- **George Way (RAF)** [wayout@cox.net](mailto:wayout@cox.net)
- **Jorge Sousa (Consulpav)** [jorge.b.sousa@gmail.com](mailto:jorge.b.sousa@gmail.com)
- **Rossana Sousa (Consulpav)** [rossana.sousa@consulpav.com](mailto:rossana.sousa@consulpav.com)
- **Miguel Angel Sanz Coll (Valoriza)** [masanz@sacyr.com](mailto:masanz@sacyr.com)
- **Fernando Guijaro (Composan)** [fernando.guijarro@composanindustrial.com](mailto:fernando.guijarro@composanindustrial.com)

## <Program>

All Speakers

May 24<sup>th</sup> Wednesday

● 8:30 – 9:30 – REGISTRATION

● 9:30 – 11:00 – OPENING STATEMENTS

9:30 – 9:35



Jorge Sousa, PhD (RAF)

9:35 – 9:40



Esteban Salinas (IRF)

9:40 – 9:45



Dr. Lurdes Antunes



Dr. Luísa Antunes

Research Coordinator,  
Member of the Directing Council of LNEC

## KEYSPEAKERS

9:45 – 10:05



Dr. José Serrano Gordo

Vice-Chairman of the Board of Directors, Infraestruturas de Portugal, S.A.

10:05 – 10:25



Ângelo Pinto

President of DER-RJ Brasil

10:25 – 10:45



Dr. Ing. Juan Jose Potti

Presidente Ejecutivo de Asefma  
(Asociación de mezclas asfálticas de España)

## ● 10:45 – 11:00 Special Guests – Greener Tomorrow

Next generation speakers by



○ 11:00-11:30 Break

## ● 11:30 – 13:00 – Module 1 - Moderator: George Way, P.E.

### Recycled Crumb Rubber Pavements Meeting the Needs of a Greener Tomorrow

11:30 – 12:00

Prof. Kamil Kaloush  
(ASU-RAF)

Environmental benefits of Using Asphalt Rubber in Pavements

12:00 – 12:30



Jorge Sousa, PhD (RAF)

Past and Future of Rubber Pavements

12:30 – 13:00



Prof. Ezio Santagata  
(Politecnico di Torino)

Performance-related evaluation and environmental assessment  
of asphalt rubber mixtures for road pavements

o 13:00- 15:00 Lunch

● 15:00 – 17:00 – **Module 2** - Moderator: Jorge Sousa, Ph.D

### Cost Effective Pavements Using Recycled Crumb Rubber

15:00 – 15:30



George Way, P.E  
(RAF)

Undisputable evidence that asphalt rubber pavements are cost  
effective

15:30 – 16:00



Prof. Shane Underwood  
(USA)

Climate Change Threats to Transportation  
Infrastructure in the United States

16:00 – 16:30



Miguel Angel Sanz Coll  
(General Manager CIRTEC, Spain)

RARX Additive

● 16:30 – 17:30 – **Live Overlay Construction (Thingap with RARX)**  
Introduction by Dr. Jorge Sousa



Pedro Nunes  
(Asphalt Manager, Tecnovia)



Nuno Fernandes  
(Technical Manager, Tecnovia)

Design, Production and Live Paving of Thingap with Rarx

Nuno Carapuça  
(Test Section Responsible, Tecnovia)

● 17:30 – 19:00 **RECEPTION**

All Speakers

## May 25<sup>th</sup> Thursday

8:30 – 9:30 – REGISTRATION

9:30 - 11:00 – **Module 3** - Moderator: Prof. Kamil Kaloush

### Construction and Maintenance Strategies Using Recycled Crumb Rubber

9:30 - 10:00



Prof. Juan Gallego  
(Spain)

Design and Production of Rubberized Asphalt Paving Materials

10:00 - 10:30



Manuel Salas  
(Director Tecnico Cemos)

Quality control of mixes produced with RARX

10:30 - 11:00



Javier Carvajal  
(Director Tecnico Del Ayt. De Fuenlabrada, Spain)

Design of urban asphalts with asphalt rubber

11:00 - 11:30 Break

11:30 - 13:00 – **Module 4** - Moderator: Prof. Ezio Santagata

### International Experience Using Recycled Crumb Rubber in Pavements

11:30 - 12:00



Luis Leon  
(Technical Manager CIRTEC)

Spanish experience in wet process in asphalt mix plant and Technical possibilities of this system

12:00 - 12:30



Richard Champion  
(Marketing Director, CEI Enterprises, Inc, USA)

Reducing CO Worldwide, The High Viscosity Rubber Asphalt Experience

12:30 - 13:00



Daniele Fornai  
(Ecopneus, Italy)

Environment Benefits of Asphalt mixes with crumb rubber in



Environment benefits of Asphalt mixes with crumb rubber in Italy

○ 13:00 - 15:00 Lunch

● 15:00 -18:00 – **Module 5** - Moderator: Prof. Shane Underwood

### Overview Path to a Greener Future with Recycled Crumb Rubber in Pavements, Research and Design

15:00 – 15:25



**Gabriel Leal**  
(Director General De Signus Ecovalor, Spain)

Incorporating used tires into roads. Circular Economy

15:25 -15:50



**Prof. Jorge Pais** (Portugal)

The use of asphalt rubber in Portugal

15:50 -16:15



**Jose Maria Bermejo Muñoz**  
(Advisor on circular economy, Thinking Remarket, Spain)

The use of secondary raw materials in roads A small step for men, one giant leap for mankind

○ 16:15 -16:40 Break

### **Module 5** - Moderator: Prof. Jorge Pais

16:40 – 17:05



**Fátima Alexandra Batista**  
(Assistant Researcher LNEC, Portugal)

Recycling road related materials: from research to practice

17:05 -17:30



**Maria del Mar Colás Victoria**  
TÉCNICO DESARROLLO, RESEARCH ENGINEER (CEPSA)

Development of a bitumen modified with rubber type BBM 35/50, specially designed for the work of a road in Portugal

17:30 -17:55



**Prof. Henrique Miranda**  
(Portugal)

I mix design. A new approach for mix formulation

● 18:00 – **Closing Session**

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 <FEES >
 

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REGISTER NOW

**REGISTRATION:**

(includes 3 coffee breaks, 2 lunches and 1 reception)

- IRF/RAF members – 550\* Euros / participant
- Non-members – 650\* Euros/ participant
- 2 or more participants per company – 550\* Euros / participant
- Students – 250\* Euros / participant

**BOOTH – 3.100\* EUROS**

(includes registration for 2 participants and 3m x 2m space)

\*plus tax - IVA (23%)

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 <Contacts >
 

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