

Rubberized Asphalt • Asphalt Rubber



June
27th to 29th, 2022

Palacio de Ferias y Congresos de

Málaga
Ciudad Genial

Welcome to

RAR2022 MÁLAGA CONFERENCE

PROGRAM

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**Ayuntamiento
de Málaga**

***Host and
Main Sponsor***

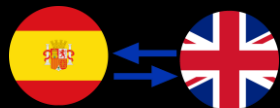
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SUNDAY 26TH 2022

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English ↔ Spanish

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STANDARD

800€ (880\$)

STUDENTS

300€ (330\$)*

*Students are required to provide proof of status

GOVERNMENT EMPLOYEES

121 € **

from all over the world

(Federal, State or Local Road Agencies)

**Proof of status required. Vat included

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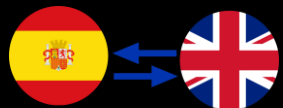


**Ayuntamiento
de Málaga**



SUNDAY 26TH 2022

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Simultaneous Translation
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Sunday 26th 2022

14:30 18:00

Stand mounting & Registration



MONDAY 27TH 2022

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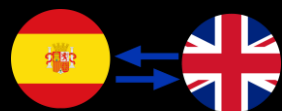
Monday 27th 2022		
09:00	10:00	Registration
10:00	10:50	Chairman's Welcome / Authorities Welcome
10:50	11:35	Eminent Speaker: Dr. Kevin Trenbeth 2007 Nobel Peace Prize
11:35	11:45	Questions and answers
11:45	12:15	Coffee Break*
12:15	14:15	SPANISH AND PORTUGUESE ADMINISTRATION PERSPECTIVES <i>Moderator: Manuel Salas</i>
14:15	15:15	Lunch*
15:15	15:45	Keynote Speaker: Prof. John Harvey
15:45	16:00	<i>Review Of The Changing World Of Crumb Rubber Wet And Dry Process</i> <i>authors: George B. Way</i>
16:00	16:15	<i>An update of 16-year review of successful bitumen-rubber asphalt use in China</i> <i>authors: Alex Visser, Shang Haiyan, James Ding</i>
16:15	16:30	<i>Mixtures With Reacted And Activated Rubber From Recycled Tires</i> <i>authors: Jorge Sousa, Luis Quaresma, George Way, Francisco Silva</i>
16:30	16:45	<i>Open Graded Friction Course Performance in California</i> <i>authors: Jose Medina, Linda Pierce, Jeff Stempihar</i>
16:45	17:15	Coffee Break*
17:15	17:30	<i>Pushing the Limit on Recycling Old Tires in Asphalt Mixtures</i> <i>authors: Peter T Sebaaly</i>
17:30	17:45	<i>Development Of New Specifications For Bituminous Mixtures With Reacted And Activated Rubber From Recycled Tires</i> <i>authors: Luis Quaresma, Eugénia Correia, Margarida Gonçalves, Filipa Marques, Anabela Martins, Maria Conceição Machado, Helder Lourenço, Carlos Sousa</i>
17:45	18:00	<i>Environmental benefits and Carbon Footprint reduction when executing roads with asphalt mixtures that incorporate secondary raw materials from the recycling of used tires.</i> <i>authors: José Luis Canga Cabanes</i>
18:00	18:15	<i>Evaluating Performance of Various Rubberized Chip Seals</i> <i>authors: DingXin Cheng, Lerose Lane, Steve J. Lee</i>
18:15	18:30	<i>Performance And Cost-Effectiveness Of Bitumen Rubber Chip Seals</i> <i>authors: Gerrie Van Zyl, Reinard Wessels</i>
20:00	00:00	GALA DINNER* - Castillo de Gibralfaro

OPENING CEREMONY



**MONDAY
27TH 2022**

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Francisco de la Torre Prados

EXCELENTISIMO ALCALDE
MALAGA



Enrique Catalina Carmona

GENERAL MANAGER
OF INFRASTRUCTURES OF
THE GOVERNMENT OF ANDALUSIA



Jose Serrano Gordo

VICE-PRESIDENT OF THE EXECUTIVE
BOARD OF DIRECTORS OF
INFRAESTRUTURAS DE PORTUGAL

Fernando J. Burgaz Moreno

GENERAL SUBDIRECTION OF CIRCULAR ECONOMY
G. D. OF QUALITY AND ENVIRONMENTAL EVALUATION
MINISTRY FOR ECOLOGICAL TRANSITION
AND THE DEMOGRAPHIC CHALLENGE



Jorge Urrecho Corrales

GENERAL DIRECTOR OF ROADS
COMMUNITY OF MADRID



Juan Jose Potti

PRESIDENT OF ASEFMA
PRESIDENT OF LA EAPA





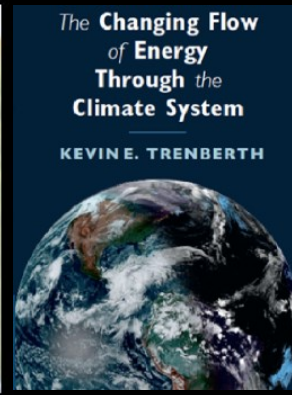
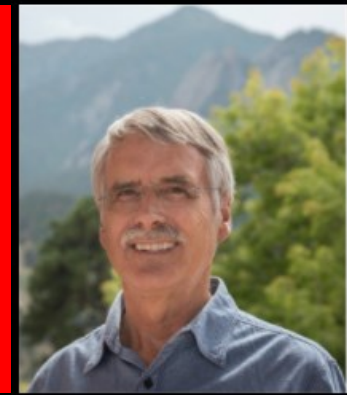
MONDAY 27TH 2022

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KEVIN E. TRENBERTH
National Center for Atmospheric Research
(NCAR)



Dr. Kevin E. Trenberth is a Distinguished Scholar at the National Center for Atmospheric Research and a faculty member at the University of Auckland, New Zealand. From New Zealand, he obtained his Sc. D. in meteorology in 1972 from Massachusetts Institute of Technology.

He was a lead author of the 1995, 2001 and 2007 Scientific Assessment of Climate Change reports from the Intergovernmental Panel on Climate Change (IPCC), and shared the **2007 Nobel Peace Prize** which went to the IPCC. He served from 1999 to 2006 on the Joint Scientific Committee of the World Climate Research Programme (WCRP), and chaired Global Energy and Water Exchanges (GEWEX) from 2010-2014. He has also served on many national committees. He is a fellow of the American Meteorological Society (AMS), the American Association for Advancement of Science, the American Geophysical Union, and an honorary fellow of the Royal Society of New Zealand.

[RAR2022 Malaga](http://RAR2022.Malaga)



SPANISH AND PORTUGUESE ADMINISTRATION PERSPECTIVES



Spain and Portugal are two of the countries in the world where the use of asphalt rubber is growing the most. This debate is an opportunity to know the vision of the different administrations.

MONDAY 27th 2022



Malaga City Council
Javier Pérez de la Fuente
Jefe de departamento
Infraestructuras



Malaga City Council
Municipal Management of Urban Planning,
Works and Infrastructures
Pilar Vila Herrero
Head of Projects and Infrastructure Works
Management Service Architecture and Infrastructures



Madrid City Council
José Miguel Baena Rangel
Director General Of Public Roads Conservation In
Madrid City Council



Ministry of Transportation,
Mobility and Urban Agenda
Manuel Carazo
State Roads, Canals and Ports Engineer



Enrique Catalina Carmona
DIRECTOR GENERAL
DE INFRAESTRUCTURAS DE
LA JUNTA DE ANDALUCÍA



Ministry Of Transportation Mobility
And Urban Agenda
Javier Payán De Tejada
Head of the Operations and
Maintenance Service in Valladolid



Huelva Port Authority
Alfonso Peña López-Pazo
Infrastructure Area Manager



Autonomous Community Of Murcia
Isaías García Salcedo
Director Of The Highway Laboratory
Of The Murcia Region



Community Of Madrid.
General Directorate Of Roads
Sonia Domingo Ayuso
Roads Sustainability and Digitalization Area



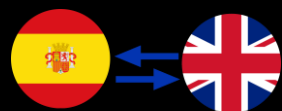
Infraestruturas de Portugal
Margarida Gonçalves
Paving Unit
Department of Road Studies and Projects



Valencia Provincial Council
Juan Carlos Jimenez Lucas
Head Of The Technical Unit Of The Valencia
Provincial Council



AENA
Jesús Iglesias Heras
Head of Pavement Section
Project and Construction Management



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GALA DINNER

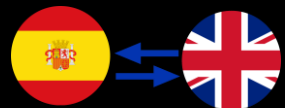
CASTILLO DE GIBRALFARO



As a lookout post, we can consider it related to the origins of Málaga as a human settling.

It must have already existed previous to the Roman dominance, but the Arabs gave it a structure of strength. The mount received the name of "Jabal-Faruk" (lighthouse mountain), from where it is said its current name comes. In the first half of the XIV century, Yusuf Y built the castle and other outbuildings.

The Catholic Kings choose the Castillo de Gibralfaro for the coat of arms they gave the city in 1494.



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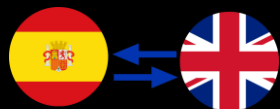
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MONDAY 27th 2022



TUESDAY 28TH 2022

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Tuesday 28th 2022		
08:00	08:30	Registration
08:30	09:00	keynote Speaker: Prof. Peter Sebaaly
09:00	09:15	Testing of two sections of bituminous mixtures made with crumb tire rubber on CET-CEDEX Full-Scale Accelerated Pavement Test Track authors: Jorge Carnerero Manzano, Maria N. Sánchez Pallarés, Rafael Jiménez Sáez
09:15	09:30	Performace Tests On Hot Bituminous Mixtures Produced With A Pre-Digested Crumb Tire Rubber Additive authors: Maria N. Sánchez Pallarés, Belén Enciso Ramos, Rafael Jiménez Sáez
09:30	09:45	Time Evolution Of The Properties Of Hot Bituminous Mixtures With Crumb Tire Rubber authors: Maria N. Sánchez Pallarés, Belén Enciso Ramos, Rafael Jiménez Sáez
09:45	10:00	The Use Of Reacted And Activated Rubber By The Semi-Wet Via. Case Studies Of Success In Mexico. authors: Guillermo Flores, Israel Sandoval, Hugo Bandala, Ignacio Cremades
10:00	10:15	Test-Trial of An Asphalt-Rubber SMA In The Douro Interior Subconcession In Portugal authors: João Afonso, Francisco Silva, Jorge Sousa, Rui Guimarães
10:15	10:30	Wet Process Rubber Asphalt Successfully Laid In Argentina authors: Marcela Balige, Ruben González
10:30	11:00	Coffee Break*
11:00	11:30	Keynote Speaker: Prof. Jorge Alarcon Ibarra
11:30	11:45	Superpave Mix Design and Laboratory Testing of Rubber Modified Asphalt Mixtures authors: Janak Shah, Aswin Srinivasan, Kamil Kaloush
11:45	12:00	Viscosity Prediction Model for Reacted and Activated Rubber Modified Binders Utilizing Artificial Neural Networks authors: Mayzan M. Isied, Mena I. Soufiman
12:00	12:15	High-RAP Rubber Modified Asphalt Mixes for Reducing Reflective Cracking authors: Freddie Salado, PhD, PE, Gerardo Flintsch, PhD, PE, José Ramon Marcobal
12:15	12:30	Mechanistic Analysis and Cost Effectiveness of Asphalt Rubber Pavement Under Various Axle Loading Conditions authors: Logan Proffer, Mena I. Soufiman
12:30	12:45	Evaluation Of Anti-Reflective Cracking Mixtures Made With High Nfu Asphalts authors: Adrian Segura, Juan Gallego, Botasso G., Belen Raggiotti
12:45	13:00	Pavements And Water, Future Climate Change Challenges, Role Of Porous Pavements / Asphalt Rubber In Sustainable Strategies authors: Douglas Rice, George B. Way, Kamil E. Kaloush
13:00	14:00	Lunch*
14:00	14:30	Keynote Speaker: Prof. Gerardo Botasso
14:30	14:45	Fatigue Damage Evolution And Life Prediction Method Of Asphalt Modified With High Content Of Rubber Powder authors: Guoqing Wang, Dongwei Cao, Lusheng Qin, Shizhou Huang, Chao Wang
14:45	15:00	Application Of High Gtr Percentage Asphalt Rubber In Perpetual Pavement: Expressway Projects Experience Of Xiong'an, China authors: Guoqing Wang, Lusheng Qin, Xinqiang Wang, Xiaoxiao Yang
15:00	15:15	A Cradle-to-Gate Lifecycle Assessment of Modified Asphalt-Rubber authors: Chaitanya Gubbala, Vinay H. Nanjgowda, Avishreshth Singh, Krishna Prapoorna Biligiri
15:15	15:30	Study of the mechanical performance of crumb rubber modified bitumen under severe traffic and climate conditions authors: F. Moreno-Navarro, Francisco J. Sierra-Carrillo del Albornoz, M. Sol-Sánchez, M.C. Rubio-Gámez, R. Pérez-Aparicio, L. Saiz-Rodríguez
15:30	15:45	Effect of CRM Curing Level on Asphalt Binder and Mixture Performance Characteristics authors: Mansour Solaimanian, Ali Sahraei Joubani
15:45	16:00	Promoting the use of Rubberised Asphalt Mixtures in Italy by introducing performance related characterisation authors: Gaspare Giancontieri, Silvia Milazzo, Chiara Mignini, Gabriella Buttitta, Daniel Fornai, Davide Lo Presti
16:00	16:30	Coffee Break*
16:30	17:30	Extended Producer Responsibility Moderator: MIGUEL ANGEL SANZ

20:00 00:00

Cocktail Andaluz* - Kaleido Puerto Malaga



EXTENDER PRODUCER RESPONSABILITY



MODERATOR
MIGUEL ANGEL SANZ
Ambassador RAR2022

The organization in the management and recycling of the tire is vital for the use of tire dust to advance in the countries. In this block we will be able to listen to the vision of five integral management systems of different countries.

TUESDAY 28th 2022



Daniele Fornai
ECOPNEUS
ITALY



Paulo Silva
VALORPNEU
PORTUGAL



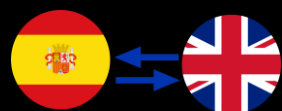
Gabriel Leal
SIGNUS
SPAIN



Barry Takallou
TRAC
CANADA



IVAN VILLAR
EcoNeu
CHILE



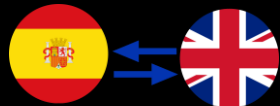
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WEDNESDAY 29TH 2022

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Wednesday 29th 2022

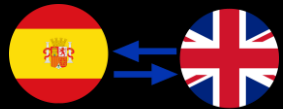
08:00	08:30	Registration
08:30	09:00	Keynote Speaker: Prof. Kamil Kaloush
09:00	09:15	Dry-Process Rubberized Asphalt Using Engineered Crumb Rubber: Field Performance In Usa And In Europe authors: N. Schüwer, P. Rath, L.A. de León, S. Megert, W. Buttlar, R. Clark
09:15	09:30	Experimental study of low temperature cracking of bituminous materials containing crumb rubber from end-of-life tires authors: Yasmina Mahmoudi, Salvatore Mangiafico, Cédric Sauzéat, Hervé Di Benedetto, Simon Pouget, Frédéric Loup, Julien Van Rompu, Jean-Philippe Faure
09:30	09:45	Experimental Comparison Of The Acoustic Performance Of Rubberized And Conventional Road Surfaces authors: Lara Ginevra Del Pizzo, Gloria Schiaffino, Francesco Bianco, Antonino Moro, Fabio Brocchi, Julien Cesbron, Filippo Gianmaria Praticò, Gaetano Licitra
09:45	10:00	Characterisation Of The Sound Absorption Of Bituminous Mixtures Modified With Rubber From End-Of-Life Tires authors: Freddy R. Apaza, Juan Gallego, Victor F. Vázquez, Santiago Paje, Roberto Perez, Leticia Saiz
10:00	10:30	Coffee Break*
10:30	11:00	Keynote Speaker: Dr.Shakir Shatnawi
11:00	11:15	Effect of rubberized asphalt on the performance of hot-mix asphalt with recycled concrete aggregates authors: Ignacio Pérez, Ana R. Pasandín, Pablo Orosa
11:15	11:30	Unraveling the Physico-chemical Structure of Reacted and Activated Rubber authors: Chaitanya Gubbala, Vinay H. Nanjgowda, Krishna Prapoorna Biligiri, Jorge B. Sousa
11:30	11:45	Evaluation of Hot Mix Asphalt Containing Processed and Conventional Crumb Rubber authors: Amir Kavussi, Mehrokh Doosti, Mehdi Azarnia, Peyman Haji Abbassi
11:45	12:00	Evaluation and Characterization of the Mechanical Properties of Warm Pavements by Adding Percentages of Vehicles and Aircraft Tire Dust from The Mariscal Sucre International Airport authors: Wilson Cando, Mauricio Cely, Jorge Bucheli, Karina Andrade, Andrea Montalvo
12:00	12:15	New Crumb Rubber Modified Bitumen for Warm Mixes authors: Vicente Pérez Mena, Maria del Mar Colás Victoria, Fernando Moreno Navarro, M ^a Carmen Rubio Gámez
12:15	12:30	Influence of Chemical-Based warm mix additive (WMA) on the rheological properties of Colombian asphalt rubbers authors: Gilberto Martínez-Argüelles, Emilio Turbay, Rodrigo Polo-Mendoza, Edgar Sanchez-Cotte, Luis Fuentes
13:00	14:00	Lunch*
14:00	14:15	Mechanical Evolution of Rubber Swelling in Bitumen authors: Haopeng Wang, Gordon Airey, Zhen Leng
14:15	14:30	Comparing the effectiveness of using SBS and Crumb rubber as asphalt mixture modifiers with different modification processes authors: Hamidreza Sahebzamani, Seyed Rasool Jazeli, Nader Mahmoodinia
14:30	14:45	Foreseen environmental and economic potentials of highly rubberised and Impact-Absorbing cold asphalt. authors: Christina Makoundou, Fredrik Ardefors
14:45	15:00	The use of geopolymers to reduce volatile organic compounds emission from crumb rubber modified bitumen authors: Jaffer Bressan Borinelli, Miguel Portillo-Estrada, Juliana Oliveira Costa, Johan Blom, David Hernández, Wim Van den Bergh, Cedric Yuyé
15:00	15:15	Re-Engineered Asphalt-Rubber: Product Development & Characterization authors: Vinay H. Nanjgowda, Krishna Prapoorna Biligiri
15:15	15:30	Comparison of SBS Polymer and Rubber Modified Mixtures Using Balanced Mix Design and Structural Capacity Assessment authors: Carolina Rodezno, Buzz Powell, Nathan Moore, Adam Taylor
15:30	15:45	The natural rubber modified asphalt pavement field performance: A case study authors: Ir. Syahida binti Aripin
15:45	16:00	The Effectiveness of Micro-Surfacing As a Thin Layer In Mitigating Reflective Cracking authors: Nurul Nadia binti Johari, Syahida binti Aripin
16:00	16:15	CLOSING SESSION

CLOSING CEREMONY



WEDNESDAY 27TH 2022

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Raul Lopez Maldonado

TENIENTE DE ALCALDE Nº 6,
CONCEJAL DELEGADO DEL ÁREA DE ORDENACIÓN DEL TERRITORIO
MALAGA



SOCIAL EVENTS

Monday 27th 2022

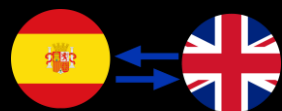
GALA DINNER

CASTILLO DE GIBRALFARO

Tuesday 28th 2022

COCKTAIL ANDALUZ

KALEIDO RESTAURANT



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EMINENT SPEAKER



KEVIN E. TRENBERTH
National Center for Atmospheric Research (NCAR)

KEYNOTE SPEAKERS



PROFESSOR JOHN HARVEY, Ph.D., P.E
Department of Civil and Environmental Engineering,
University of California Davis, USA



PETER E. SEBAALY, PhD, PE
Director of Pavement Engineering & Science Program,
University of Nevada, USA



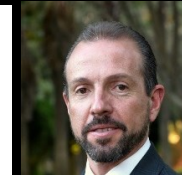
KAMIL ELIAS KALOUSH, Ph.D., P.E
FORTA Professor of Pavement Engineering,
Arizona State University, USA



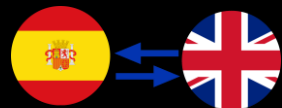
GERARDO BOTASSO, Ph.D.
Director LEMaC, Road Research Center,
National Technological University of La Plata, Argentina



DR. SHAKIR SHATNAWI, P.E.
President of Shatec Engineering Consultants, LLC
California, USA

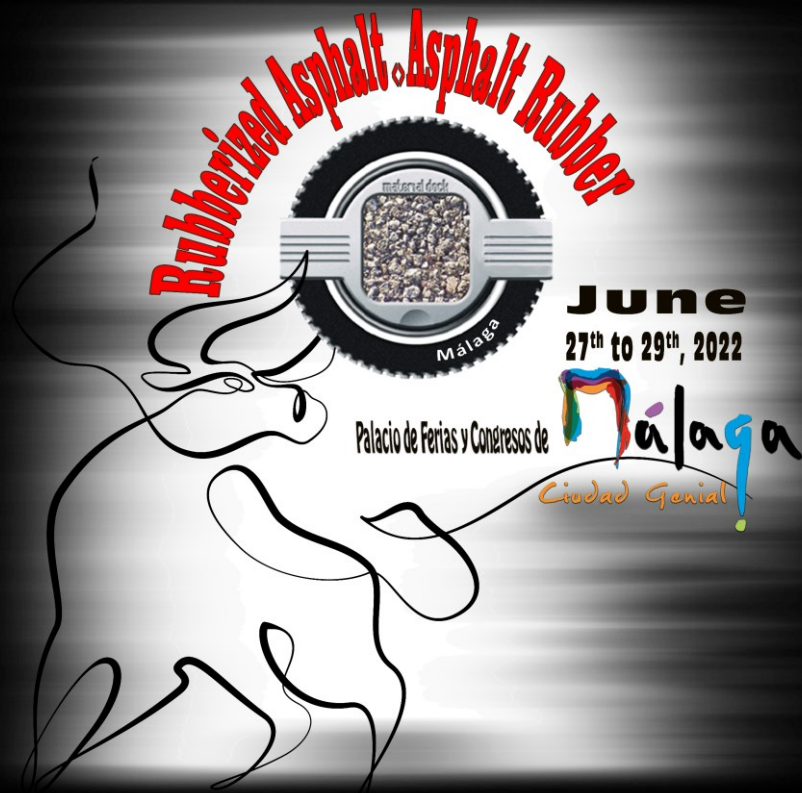


JORGE ALARCÓN IBARRA, Ph.D.
Professor and Researcher at the
School of Civil Engineering of the UMSNH, México



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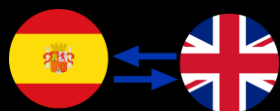
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SCIENTIFIC CONTENT

ACCEPTED ABSTRACTS

24 Countries



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Review Of The Changing World Of Crumb Rubber Wet And Dry Process

An update of 16-year review of successful bitumen-rubber asphalt use in China

Open Graded Friction Course Performance in California

Mixtures With Reacted And Activated Rubber From Recycled Tires

Pushing the Limit on Recycling Old Tires in Asphalt Mixtures

Development Of New Specifications For Bituminous Mixtures With Reacted And Activated Rubber From Recycled Tires

Environmental benefits and Carbon Footprint reduction when executing roads with asphalt mixtures that incorporate secondary raw materials from the recycling of used tires.

Evaluating Performance of Various Rubberized Chip Seals

Performance And Cost-Effectiveness Of Bitumen Rubber Chip Seals

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The Use Of Reacted And Activated Rubber By The Semi-Wet Via. Case Studies Of Success In Mexico.

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Wet Process Rubber Asphalt Successfully Laid In Argentina

Superpave Mix Design and Laboratory Testing of Rubber Modified Asphalt Mixtures

Viscosity Prediction Model for Reacted and Activated Rubber Modified Binders Utilizing Artificial Neural Networks

High-RAP Rubber Modified Asphalt Mixes for Reducing Reflective Cracking

Mechanistic Analysis and Cost Effectiveness of Asphalt Rubber Pavement Under Various Axle Loading Conditions

Evaluation Of Anti-Reflective Cracking Mixtures Made With High Nfu Asphalts

Pavements And Water, Future Climate Change Challenges, Role Of Porous Pavements / Asphalt Rubber In Sustainable Strategies

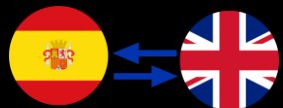
Fatigue Damage Evolution And Life Prediction Method Of Asphalt Modified With High Content Of Rubber Powder



SCIENTIFIC CONTENT

ACCEPTED ABSTRACTS

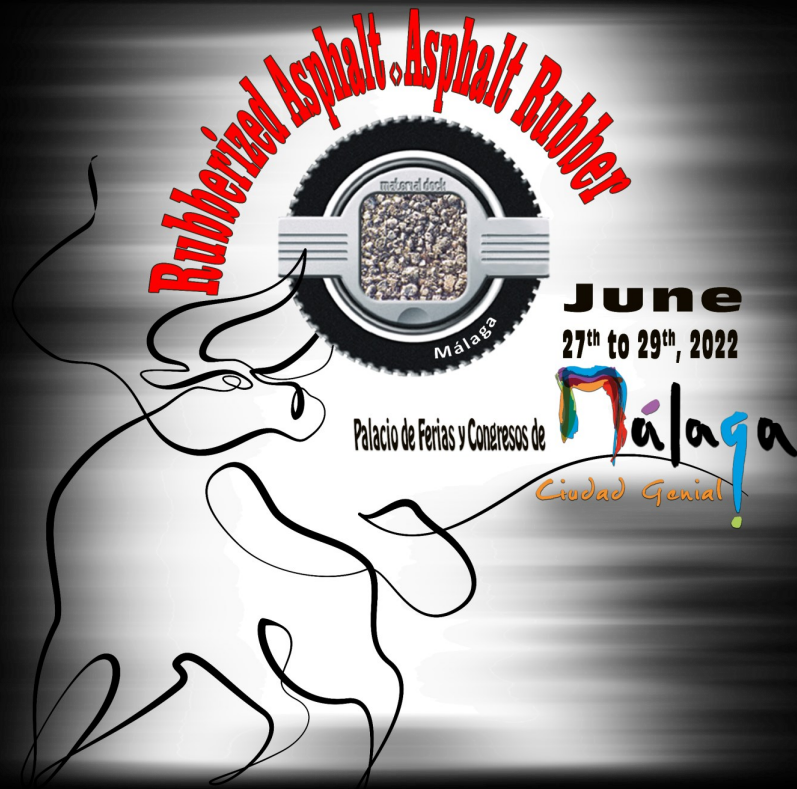
24 Countries



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- Application Of High Gtr Percentage Asphalt Rubber In Perpetual Pavement: Expressway Projects Experience Of Xiong'an, China*
- A Cradle-to-Gate Lifecycle Assessment of Modified Asphalt-Rubber*
- Study of the mechanical performance of crumb rubber modified bitumen under severe traffic and climate conditions*
- Effect of CRM Curing Level on Asphalt Binder and Mixture Performance Characteristics*
- Promoting the use of Rubberised Asphalt Mixtures in Italy by introducing performance related characterisation*
- Dry-Process Rubberized Asphalt Using Engineered Crumb Rubber: Field Performance In Usa And In Europe*
- Experimental study of low temperature cracking of bituminous materials containing crumb rubber from end-of-life tires*
- Long-life resurfacing asphalt based on rubber powder or cellulose fibres*
- Characterisation Of The Sound Absorption Of Bituminous Mixtures Modified With Rubber From End-Of-Life Tires*
- Effect of rubberized asphalt on the performance of hot-mix asphalt with recycled concrete aggregates*
- Unraveling the Physico-chemical Structure of Reacted and Activated Rubber*
- Evaluation of Hot Mix Asphalt Containing Processed and Conventional Crumb Rubber*
- Evaluation and Characterization of the Mechanical Properties of Warm Pavements by Adding Percentages of Vehicles and Aircraft Tire Dust*
- from The Mariscal Sucre International Airport*
- New Crumb Rubber Modified Bitumen for Warm Mixes*
- Influence of Chemical-Based warm mix additive (WMA) on the rheological properties of Colombian asphalt rubbers*
- Mechanical Evolution of Rubber Swelling in Bitumen*
- Comparing the effectiveness of using SBS and Crumb rubber as asphalt mixture modifiers with different modification processes*
- Foreseen environmental and economic potentials of highly rubberised and Impact-Absorbing cold asphalt.*
- The use of geopolymers to reduce volatile organic compounds emission from crumb rubber modified bitumen*
- Re-Engineered Asphalt-Rubber: Product Development & Characterization*
- Comparison of SBS Polymer and Rubber Modified Mixtures Using Balanced Mix Design and Structural Capacity Assessment*
- When Rubber Is In The Road*
- The Effectiveness of Micro-Surfacing As a Thin Layer In Mitigating Reflective Cracking*
- Experimental Comparison Of The Acoustic Performance Of Rubberized And Conventional Road Surfaces*



ORGANIZATION COMMITTEE

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THE CONFERENCE CHAIRMANS



Dr. Jorge B. Sousa



George Way, P.E.



Prof. Juan Gallego

CONFERENCE COORDINATOR

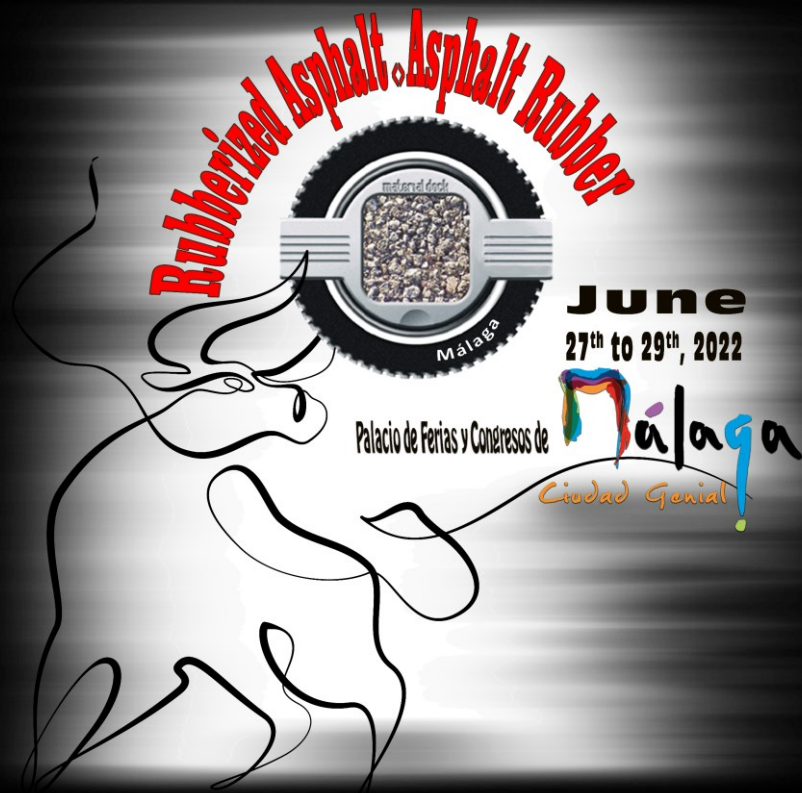


Miguel Angel Sanz Coll

HONORARY COMMITTEE



Ayuntamiento
de Málaga



TECHNICAL COMMITTEE *World's Leading Experts*

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Dr. Jorge Sousa (USA)

Prof. Juan Gallego (Spain)

Prof. Herve Di Benedetto (France)

Prof. Peter Sebaaly (USA)

Prof. Rongji Cao (China)

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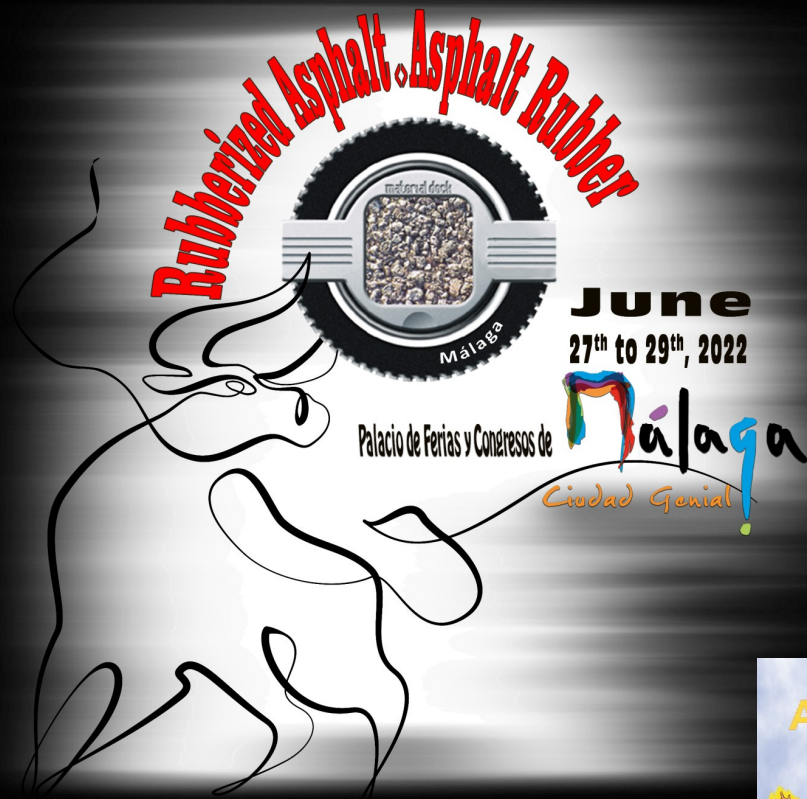
Prof. Johannes Hartmut Beckedahl (Germany)

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Prof. Christina Plati (Greece)

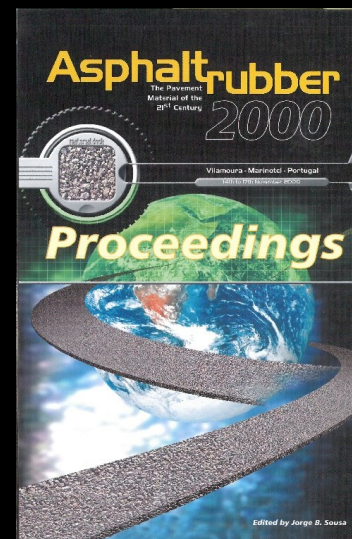
Prof. Mayca Rubio (Spain)

Prof. Angel Sampedro (Spain)

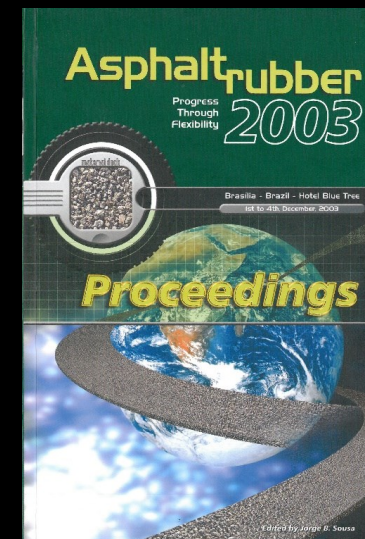


HISTORY

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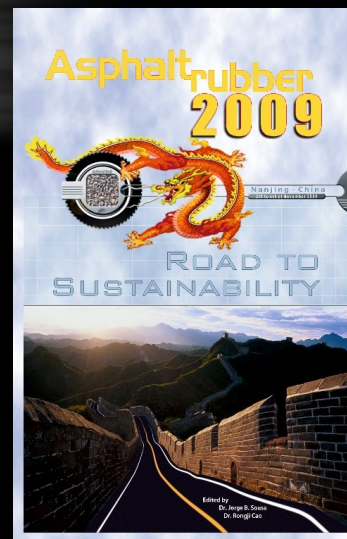
Asphalt Rubber 2000
Vilamoura – Portugal



Asphalt Rubber 2003
Brasilia – Brazil



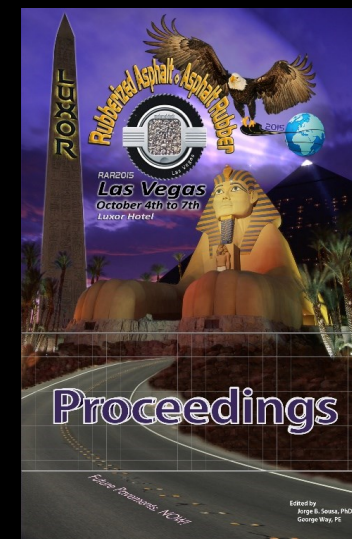
Asphalt Rubber 2006
California – USA



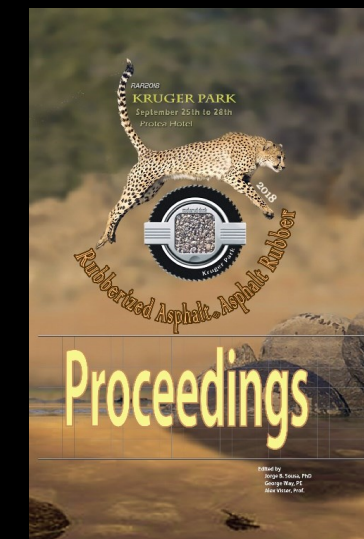
Asphalt Rubber 2009
Nanjing – China



Asphalt Rubber 2012
Munich – Germany



Asphalt Rubber 2015
Las Vegas – USA



Asphalt Rubber 2018
Kruger Park – South Africa



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