

CONFERENCE SCHEDULE

TUESDAY 14 OCTOBER

09:00 - 09:30	**REGISTRATIONS**	
09:30 - 09:40	**OPENING SESSION**	**Eng. Laura Caldeira** LNEC President
09:30 - 10:10		**George Way** RAF Chairman **Dr. Jorge Sousa** Conference Chairman
10:10 - 10:20		**Solomon Pavliashvili, Deputy Minister, Ministry of Environmental Protection and Agriculture of Georgia** " Building Policy Foundations for a Circular Future"
10:20 - 10:30		**Shalva Akhvlediani, CEO, Tegeta Green Planet** "Circular Industry in Motion: Tegeta Green's Path from Tyre Waste to Infrastructure Value"
10:30 – 10:40		**Surprise Video**
10:40 - 11:00		**Dr. Kevin Trenberth** "Climate Change - Evidence and Consequences"
11:00 – 11:30	**COFFEE BREAK**	
11:30 - 11:45	**SESSION 1** **Dr. Fatima Batista**	**J. Sousa, G. Way** "New Technological Innovations in Asphalt Rubber for a More Resilient Future"
11:45 - 12:00		**J. Alarcon, H. Bandala, J. Cortez** "Use of predigested rubber in asphalt mixtures for airport pavements"
12:00 - 12:15		**C. Obando et al** "A Holistic Solution that Simultaneously Enhances Durability and Promotes Environmental Management: Rubberized-Aerogel"
12:15 - 12:30		**G. Botasso et al** "Consortium between a highway concessionaire and producers of used tire dust for the development of sustainable infrastructure"
12:30 - 12:45		**R. Barros, F. Guatimosim** "The Growth of Rubberized Asphalt Use Over 25 Years in Brazil"
12:45 – 13:00		**M. Coll et al** "Completion of the First DAP for Used Tyre Powder and Digested and Concentrated Rubber Bitumen Granulates RARX"
13:00 - 14:45	**LUNCH**	
14:45 - 15:00	**SESSION 2** **Manuel Prates**	**KEYNOTE 1** **Dr. SHAKIR SHATNAWI** President/CEO SHATEC Engineering Consultants, LLC "The History and Use of Asphalt Rubber in California"
15:00 - 15:15		
15:15 - 15:30		
15:30 - 15:45		**Zborowski et al** "Long-Life Pavement with Rubber-Modified Asphalt Binder: A Case Study of the Test Section on the S-19 Expressway"
15:45 - 16:00		**Rodríguez-Alloza et al** "Environmental Benefits of a Cleaner Engineering Asphalt Pavement Technology Incorporating Recycled Tire Rubber and Warm Mix Additives"
16:00 - 16:15		**J. Pais, J. Sousa** "Design of Pavement Reinforcements for Crack Reflection"
16:15 – 16:45	**COFFEE BREAK**	
16:45 – 17:00	**SESSION 3** **Prof. Jorge Pais**	**Shakhovets et al** "Evaluation of the effectiveness of elastomeric modifiers of road bitumen and asphalt concrete mixtures based on gel-sol analysis" - *ONLINE*
17:00 – 17:15		**N. Mafra et al** "Comparative Performance of Asphalt Binder Modification Using RAR and Depolymerized PET Oligomers: Rheological, Mechanical, and Sustainability Perspectives"
17:15 – 17:30		**G. Way** "Asphalt-Rubber 65 Years of People, Places and Progress"
17:30 – 17:45		**R. Wagh et al** "Unlocking the potential of lignin in asphalt-rubber binder: An attempt to synergize bio-based industrial waste with scrap tires"
17:45 – 18:00		**L. Vieira, P. Nunes** "Cutting Costs, Cutting Carbon, Building Tomorrow - Economic and Environmental Benefits of LPG and Natural Gas in Asphalt Production"
18:00 -19:30	**RECEPTION** LNEC	



CONFERENCE SCHEDULE

WEDNESDAY 15 OCTOBER

09:00 - 09:15	**MESAT SESSION** **Prof. Kamil Kaloush**	**Prof. Ezio Santagata** "A Unique Perspective of Asphalt Rubber Implementation in the Region " - *ONLINE*
09:15 - 09:30		**Senior Technical Services Engineer Stefano Marini** "Asphalt Rubber Projects and Experiences in the Middle East: AR used in Dubai Expo 2020, Mix design and Performance"
09:30 - 09:45		**Prof. Ahmed Fatin Faheem Mahmoud** "Feasibility of rubberized asphalt for hot climates in the UAE"- *ONLINE*
09:45 - 10:00		**MESAT SESSION – OPEN DISCUSSION**
10:00 - 10:15		
10:15 - 10:30		**KEYNOTE 2** **Dr. KRISHNA BILIGIRI** Prof. of Civil and Environmental Engineering Indian Institute of Technology, TIRUPATI "Rubberized Asphalt-Rubber in India: Three Decades of Innovation & Experience"
10:30 – 10:45		
10:45 -11:00		
11:00 – 11:30	**COFFEE BREAK**	
11:30 - 11:45	**SESSION 4** **Dr. Jorge Sousa**	**J. Alarcon et al** "Performance analysis of sustainable asphalt mixtures modified with rubber and RAP" - *ONLINE*
11:45 - 12:00		**I. Antunes et al** "Advanced Chemical and Rheological Engineering of High-Performance and Sustainable Waterproofing Membranes Incorporating RAR and Bio-Based Oils"
12:00 - 12:15		**G. Rowe et al** "The performance of a devulcanized rubber asphalt modifier for the production of polymer modified asphalt binders"
12:15 - 12:30		**N. Tian et al** "A Review of Chemical Reagent-Based Surface Treatments for Enhancing Compatibility of Waste Crumb Rubber with Bitumen"
12:30 - 12:45		**H. Kaur et al** "Advanced Characterization of Industrial-wastes Modified Asphalt-Rubber Mixtures: A Focus on Encapsulating the Activated Rubber-Asphalt Conglomerates"
12:45 – 13:00		**E. Hernandez et al** "Warm mixture asphalt with modified asphalt by predigested and activated crumb rubber: A successful case"
13:00 - 14:45	**LUNCH**	
14:45 - 15:00	**SESSION 5** **Dr. Shakir Shatenawi**	**KEYNOTE 3** **Prof. KAMIL KALOUSH** FORTA Prof. of Pavement Engineering & Program Chair, Civil Engineering, Arizona State University "Crumb Rubber in Asphalt: Decades of Success and Pathways to Tomorrow's innovations"
15:00 - 15:15		
15:15 - 15:30		
15:30 - 15:45		**V. Antunes et al** "Evaluation of Sustainable Pavement Construction and Maintenance Using Multi-Recycled RAP Mixtures"
15:45 - 16:00		**E. Andrade, D.Matos** " Sustainable Asphalt-Rubber Technology: Evaluating Insoluble Rubber Powder and Its Impact on Binder Content Correction"
16:00 - 16:15		**A. Pinto et al** " Performance of Asphalt Mixtures Modified with Rubber "In Situ Field Blend" on the RJ-122 Highway in the State of Rio de Janeiro/Brazil"
16:15 – 16:45	**COFFEE BREAK**	
16:45 – 17:00	**SESSION 6** **George Way**	**KEYNOTE 4** **Prof. ZHANPING YOU** Distinguished Professor Department of Civil, Environmental, and Geospatial Engineering, Michigan Technological University "Implementation and Performance Evaluation of a Large-scale Rubberized Asphalt Project in Michigan"
17:00 – 17:15		
17:15 – 17:30		
17:30 – 17:45		**S. Mattaparthi et al** " Warm-Mix Asphalt-Rubber Compactability Metrics: Optimization of Production and Compaction Temperatures"
17:45 – 18:00		**G. Way, J. Sousa** "Integration of Recycled Tire Rubber Pavements and Solar Energy, a Novel Concept"
18:45 -23:30	**CONFERENCE DINNER** – RESTAURANT ALFOZ IN ALCOCHETE **AMBASSADOR AND INNOVATION AWARDS** **SEE YOU THERE!!!**	



CONFERENCE SCHEDULE

THURSDAY 16 OCTOBER

09:00 - 09:15	**SESSION 7** **Prof. Krishna Biligiri**	**M. Alavi et al** "How Does High RAP Content Affect the Performance Properties and Durability of Rubberized Asphalt Mixtures?“ - *ONLINE*
09:15 - 09:30		**M. Alavi et al** "Sustainability and Performance Evaluation of Rubberized Asphalt Mixtures Using Different Production Methods“ - *ONLINE*
09:30 - 09:45		**V. Gawande et al** "Compatibility and Performance Assessment of Asphalt-Rubber Binder Activated with Waste Cooking Oil"
09:45 - 10:00		**D. Cheng et al** "Utilizing Turf Rubber Infill in HMA"
10:00 - 10:15		**TAIWAN INNOVATIVE RUBBER PROJECT** **Po-Yu Tang, Chairman of King Ho Tai International Co.,Ltd.** "Resin-modified wet Cold Mix Crumb Rubber Surface Material"
10:15 - 10:30		**KEYNOTE 5** **Dr. ELLIE FINI and Dr. MAHOUR PARAST** Associate Prof. Arizona State University and Associate Research Professor at the Del E. Webb School of Construction "Enhancing Sustainability and Promoting Community Resilience through Rubberized Roadway Infrastructure"
10:30 – 10:45		
10:45 -11:00		
11:00 – 11:30	**COFFEE BREAK**	
11:30 - 11:45	**SESSION 8** **Prof. Kamil Kaloush**	**B. Regmi et al** "Poker Chip Testing of Rubberized Asphalt Binders”
11:45 - 12:00		**W. Zankowicz et al** "The synergy of using the textile fiber derived from end-of-life tires in the dry crumb rubber modified gap-graded asphalt mixtures"
12:00 - 12:15		**N. Gopakumar et al** "Rubber-Plastic Conglomerates as Sustainable Aggregates: Assessment of Asphalt Interaction and Swelling Dynamics"
12:15 - 12:30		**KEYNOTE 6** **Prof. KELVIN WANG** Director and Professor, Western Transportation Institute Montana State University "AI Impact on Future Pavement Engineering"
12:30 - 12:45		
12:45 – 13:00		
13:00 - 14:45	**LUNCH**	
14:45 - 15:00	**SESSION 9** **Dr. Maria de Lurdes Antunes**	**A. Freire et al** "Long-term evaluation of a RAR test pit"
15:00 – 15:15		**KEYNOTE SPEAKERS PANEL DISCUSSION**
15:15 - 15:30		
15:30 - 15:45		
15:45 – 16:00		**Tomorrow Trip Teaser**
16:00 – 16:10		**OLD TIMMER POWERPOINT**
16:10 - 16:30		**CLOSING SESSION**