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International Union of Laboratories and Experts in
Construction Materials, Systems and Structures
Réunion Internationale des Laboratoires d'Essais et de
Recherches sur les Matériaux et les Constructions



RILEM Technical Committee 279 WMR ***Valorisation of Waste and Secondary Materials*** ***for Roads***



Date: June 15th 2023, 9:30-13:00

It is well established that currently a considerable amount of waste is produced and a major part of the resources are wasted through the mainly linear process of material use in our economies. At the same time, various types of waste materials such as crumb rubber, plastics and construction & demolition waste have been successfully used in road pavements. RILEM TC 279-WMR has developed and broadly demonstrated such solutions in order to promote widespread market uptake. This workshop will bring together various stakeholders including those working within the TC in order to address various aspects pertaining to the use of waste and marginal materials in roads. This can span from choice of waste and marginal materials, laboratory characterization, in situ performance and standardization.

1. Lily Poulikakos (EMPA), Emiliano Pasquini (U Padova): "Overview of RILEM TC-279 WMR" (10 min)
2. Marjan Tusar (ZAG): "TG1-Waste plastic modified asphalt binders" (15 min)
3. Jorge Pais (U Minho): "TG2-Crumb rubber modified asphalt binders" (15 min)
4. Jean-Pascal Planche (Wester Research Institute) (20 min) "Upscaling Wastes for the Asphalt Market through Chemical Reengineering"

Coffee Break

5. Emiliano Pasquini (U Padova), Augusto Cannone Falchetto (U Aalto), Fernando Moreno-Navarro (U Granada): "TG3-Waste Aggregates in Asphalt Mixtures" (15 min)
6. Davide Lo Presti (U Palermo), Ana Jimenez del Barco Carrion (U Granada): "TG5-Life Cycle Assessment" (15 min)
7. Shahin Eskandarsefat (Iterchimica) (20 min) "Evolution and Real-Scale Applications of a Recycled Plastic Based Asphalt Modifier"
8. Lily Poulikakos (EMPA), Emiliano Pasquini (U Padova): "Discussion and final thoughts" (10 min)