

Seminar Announcement

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Strategies for more sustainable road infrastructures

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Dr. Ziyani is an Assistant Professor at Université de Technologie de Compiègne (France), Department of Chemical Engineering. Her doctoral thesis, obtained in 2013 from the Ecole Centrale de Nantes, dealt with the physico-chemical properties at the interface between bitumen emulsion and granular materials. Her research activities focus on dispersed systems (notably emulsions). She has more than 10 years of expertise in bitumen, bitumen emulsions and hot, warm and cold mix asphalt, in particular their physico-chemical and mechanical properties, as well as the evolution of these properties with aging. In addition, she has been involved in various French research projects focused on recycling and multi-recycling of asphalt mixtures.

In this lecture, we will address pavement durability, particularly in the context of recycling. We will highlight several studies on the aging of bituminous binders and the most relevant methods for characterizing it. The impact of rejuvenators on the final properties of recycled asphalt mixes will also be considered. Then, a recent project will outline the feasibility of multi-recyclability of pavements.
