



Accelerated Pavement Testing 6th international conference

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Contribution of Accelerated Pavement Testing to transport infrastructure innovation

Workshop on Sunday April 3, 2022 - La Cité Nantes Congress 14:00 – 17:00

Workshop 1: Simulation of ambient environment actions in APT

Chairs: Luis Loria-Salazar / Angel Mateos



Luis Loria-Salazar, has a master and a PhD degree from the University of Nevada, Reno. Actually is full professor at the University of Costa Rica. Former General Director of the Transportation

Infrastructure Program of UCR where He run an APT experiment for 9 years. Member of scientific committees at TRB, RILEM, AAPT, APSE and ASCE. He has written more than 170 scientific papers. Actual VP of ISAP.



Angel Mateos is Principal Investigator of the UC Pavement Research Center at Berkeley. He has served as Principal Investigator in numerous research projects funded by the Spanish Ministry for

Public Works, the European Union, the World Bank, and Caltrans, among others. Member of scientific committees at TRB, APSE, ASCE and NRRRA. He is Ph.D. from the Polytechnic University of Madrid.

Scope

Any accelerated pavement test requires that ambient environment actions be simulated adequately. Nonetheless, the meaning of “ambient environment actions” varies from one APT program to another—depending in part on the country or region’s climate—and from one test to another—subject to the pavement/material types used in the testing and the test goals. Consequently, a large collection of ambient environment techniques (/goals) have been used to date. The aim of this workshop is 1) to summarize all these techniques and 2) to highlight the relevance and role of ambient environment simulation in APT.

Objectives:

- To present in detail the most important state-of-the-art ambient environment control systems used in APT experiments around the world.
- To understand the various phenomena to be simulated: aging, raining, heating, cooling, the ground-water table, cement hydration, concrete drying shrinkage, etc.
- To summarize the techniques and technologies used around the world to perform ambient environment simulation.