Tire Tech 2023

Presentation proposal

Presentation Title:

Optimized laboratory prediction of wet grip performance of tires

Presentation Synopsis:

There are many intensively studied laboratory-scale testing devices for the wet traction evaluation of rubber compounds such as linear friction tester (LFT), dynamic mechanical analysis (DMA) and Laboratory abrasion tester (LAT100). However, the lab-scale methods fail to provide reliable results which are consistently correlated to the real-world performance of the tire specially when the operating conditions or the material characteristics are changed.

This study aims to optimize the existing laboratory test setups by detecting possible errors and design a new test method with the ability to provide more reliable results which are in good agreement with the actual wet traction performance of the tire.

Speaker Biography :

Kianoush Babazadeh, born on 27 June 1995 in Amol, Iran, with a Bachelor's degree in Metallurgy and Materials Engineering from the University of Tehran, Iran, a Master's degree in Materials Engineering and Nanotechnology at Politecnico Di Milano, Italy and from January 2022, a PDEng trainee in Elastomer Technology and Engineering (ETE) group at the University of Twente, working on a 2-year project on tire traction evaluation techniques and tire performance enhancement in collaboration with Apollo Tyres Ltd..