Special Issue

Cool Mix Asphalt: Redefining Warm Mix Asphalt

Message from the Guest Editor

The plant mixing temperatures of WMA vary widely because WMA is generally defined as a temperature reduction from hot mix asphalt (HMA), say between 30°F (17°C) and 120°F (67°C). The WMA definition, however, further varies because the temperature of HMA varies between 260 and 335°F (127 and 168°C) depending on the asphalt binder grades. In this Special Issue, it is proposed that HMA should be defined as asphalt mixtures produced at temperatures between 284 and 320°F (140 and 160°C), WMA at temperatures between 248 and 284°F (120 and 140°C), and CMA at temperatures between 212 and 248°F (100 and 120°C). By defining their actual production temperatures rather than reduction temperatures from HMA, WMA and CMA will be clearly defined independent of varying HMA temperatures. Adopting these clear definitions will allow researchers, engineers, and contractors to compare apples versus apples rather than apples versus oranges. This Special Issue specifically calls for papers that involve the testing, design, production, construction, maintenance, and performance of CMAs that were produced at between 212 and 248°F (100 and 120°C).

Guest Editor

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