

Innovative Test Methods for Concrete Mixtures

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The presentation will discuss new test methods for evaluating concrete mixtures that have been developed or modified at Iowa State.

It is believed that these methods all contribute to allowing practitioners better understand the mixtures they are working with, leading to reducing the cost of failures and improving the longevity of our infrastructure. The methods include:

- Drop test for rapid and localized assessment of permeability
- vKelly for measuring how a mixture responds to vibration
- Foam drainage for assessing the stability of the air void system
- Two of these methods have been submitted to AASHTO for adoption.

Keywords: concrete mixtures; drop test; vKelly; foam drainage