

SUPPLEMENTARY CEMENTITIOUS MATERIALS



WA ACI CHAPTER MEETING

WEDNESDAY, 03.19.2025



Presentation by
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Chair in Engineering

Supplementary cementitious materials (SCMs) are added to concrete to enhance its properties and can partially replace Portland cement. Recent proposals suggest that the pozzolanicity of SCMs can be assessed by monitoring the heat released when mixed with calcium hydroxide at high temperatures and pH levels. This data, along with calcium hydroxide consumption, helps compare different SCMs and evaluates their reaction in cement pastes.

The use of SCMs is increasing as they reduce costs, lower carbon emissions, improve sustainability, and enhance concrete durability. However, diminishing reserves of traditional SCMs have prompted the exploration of newer options like natural pozzolans, zeolites, and calcined clays. Understanding the pozzolanicity of these materials is crucial for their effective use in concrete.



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5:00 PM Reception & Dinner



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