

# LOW CLINKER CONCRETE - THE ROLE OF SCM REACTIVITY, OPTIMIZATION, AND MIX DESIGN



## WA ACI CHAPTER MEETING

WEDNESDAY, 03.19.2025



*Presentation by*  
*Jason Weiss, Ph.D., MS, BAE*  
Professor, School of Civil and Construction Engineering  
Miles Lowell and Margaret Watt Edwards Distinguished  
Chair in Engineering

There is a growing interest in reducing the clinker content of concrete. This has resulted in the increased use of Portland Limestone Cement (PLC) and the increased use of Conventional and Alternative Supplementary Cementitious Materials (SCMs).

Dr. Weiss's presentation will discuss experimental and computational analysis to assess the impact on the workability, mechanical performances, and durability of concrete mixtures with low clinker contents.

It is shown that the chemical composition, moisture content, porosity, specific gravity, and reactivity of SCMs are important. In general, the PLC+SCMs mortars provided satisfactory mechanical and durability performance. It is proposed that this framework has the potential for widespread use and success.



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5:00 PM Reception & Dinner



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