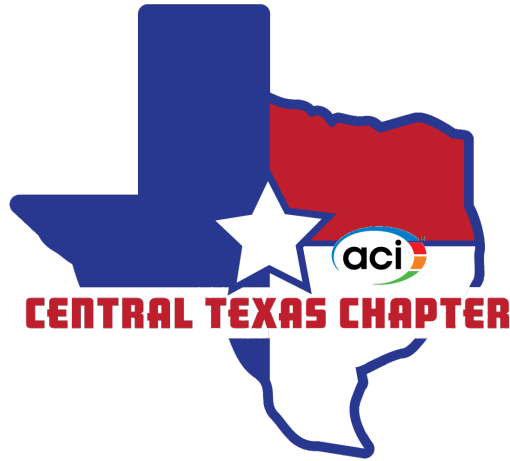




Professional Development Hours (PDH's)

Various States have established the PDH as a requirement for professional license renewal. Typically, this is a self-certifying requirement. Attendees have a personal responsibility to assess the applicability of attended program elements to their professional development. Attendees are encouraged to consult their state licensing board to answer any questions regarding PDH credits. Attendees are hereby advised that neither The Central Texas Chapter of The American Concrete Institute nor the participating speakers guarantee compliance of the individual program elements with the qualifications established by individual State licensing boards.

Certificate of Attendance

This Certificate Documents That

**has attended the following presentation sponsored by the
Central Texas Chapter of the American Concrete Institute**

Thursday, September 10, 2020

via Webinar

11:30 PM – 12:30 PM

David Rothstein, Ph.D., P.G., FACI

Meeting Topic:

Quality Assurance of Hardened Concrete

Concrete petrography is an important tool for quality assurance. In this webinar we use case studies to illustrate how we determine if the mixture in place matches the concrete mix design. This information is often pivotal for putting jobs that have issues such as low strength, early age cracking, surface defects and more back on track. DRP routinely uses innovative approaches with fluorescence microscopy and other methods to de-convolute the w/cm and other parts of concrete mixtures. See how these methods work through case studies that range from strength issues in pier columns to developing mix designs with new supplemental cementitious materials.

Elizabeth Lukefahr
ACI President 2020
Central Texas ACI Chapter