



CHAPTER TALKS

Need a speaker for your Chapter Meeting?

ACI offers unlimited 1-hour webinar presentations and up to two in-person presentations to help support the educational needs of your chapter. Sessions are presented by ACI staff and executive professionals from American Coal Ash Association and Slag Cement Association.

Scheduling is as easy as 1, 2, 3!

STEP 1 – SELECT TOPIC

STEP 2 – CONTACT ACI

STEP 3 – RECEIVE CONFIRMATION



American Concrete Institute
Always advancing



ACI SESSIONS

(ACI is an approved education provider for AIA and ICC)

ACI 318 PLUS

In March 2021, ACI launched a new online document platform. This platform easily and conveniently links the content of one ACI document with curated, related content from other ACI forms of information such as committee documents, periodicals, videos, and 3-D graphics. The platform also allows each user to create their own sets of electronic notes for personal information and resources that can be shared with other individuals. The platform is built around ACI CODE-318-19 and the related design and detailing manuals. The platform will continue to grow to include additional ACI documents. This presentation will provide an overview of the platform and show you how you may be able to obtain free, no-obligation access to the platform.

ACI Code Advocacy*

Topics covered in this presentation include:

- o ACI's revised mission statement;
- o Components of building codes;
- o Model code development process;
- o Model code development advocacy roles;
- o State code development process; and
- o State code development advocacy roles.

ACI Certification, Now and the Future*

This presentation will explain the rigorous process ACI follows in creating these industry-relevant programs and include a brief outline of:

- o Adhesive Anchor Installer (AAI);
- o Adhesive Anchor Installation Inspector;
- o Concrete Quality Technical Manager (CQTM);
- o Masonry Field Testing Technician;
- o Masonry Laboratory Testing Technician; and
- o Self-Consolidation Concrete Testing Technician.

ACI Reference Specifications: Unraveling Concrete Specs*

Topics covered in this presentation will include:

- o What are ACI specifications;
- o Common features of ACI specifications, using ACI 301;
- o Summary of the ACI 301 checklists; and
- o Important upgrades in ACI 301-20.

ACI Repair Code 562-21**

Topics covered in this presentation will include:

- o Why a repair code is needed;
- o The philosophy behind ACI 562;
- o How the code promotes consistency in repair design;
- o Recognizing repair construction challenges;
- o Significance of a quality assurance program for successful repairs; and
- o How the code can save the owner money.

Adhesive Anchor Installer and Inspector Certifications**

Topics covered in this presentation will include:

- o Need for the AAI certification program;
- o How the programs were developed;
- o Understand the requirements to obtain these certifications;

- o Understand the process and availability of these programs in your area; and
- o Understand criteria associated with new AAI Inspector program.

Changes to the Concrete Design Standard**

Topics covered in this presentation will include:

- o Understand where higher grades of reinforcement are accepted and changes to the requirements for structural concrete to allow the higher reinforcement grades.
- o Identify changes to development lengths for straight bars, hooks, and headed deformed bars.
- o Learn the new requirements for post-installed screw type anchors and shear lug design for anchoring to concrete.
- o Describe the changes to shear design provisions and equations.

Concrete Cracking*

Topics covered in this presentation will include:

- o Causes and control of cracking;
- o Evaluation methods;
- o Mitigation; and
- o Crack repair.

Curing is Good*

Topics covered in this presentation will include:

- o Define curing and related terms;
- o Recall different curing methods;
- o Examine research findings on curing;
- o Review minimum curing requirements from ACI, AASHTO, and state DOTs; and
- o Explain curing timing in relation to construction activities.

Durability: How Do We Measure It?*

This presentation will discuss the importance of durability and current test methods. Topics covered in this presentation include:

- o How to define durability;
- o Where to find durability requirements and guidance; and
- o Commonly used durability tests for freeze-thaw and alkali-aggregate reactivity.

Evaluation of Concrete Cores Test Results According to ACI 318-19

Topics covered in this presentation will include: .

- o Identify the compressive strength acceptance criteria in ACI 318-19.
- o Explain when coring is needed and who selects the core locations.
- o Identify the number and size of concrete cores when evaluating strength in accordance with ACI 318-19.
- o Describe actions taken when one or more cores are below the acceptance criteria.

FRP – Strengthening*

Topics covered in this presentation include:

- o Strengthening options;
- o Components and general properties;
- o System selection;
- o System design;
- o Construction; and
- o Maintenance.

1 SELECT TOPIC (cont.)

History of Concrete – How it Started (Virtual Presentation Only)

Topics covered in this presentation include:

- o Explain the definitions of cement and concrete.
- o Show how early man may have accidentally discovered our first cement.
- o Identify how mud bricks, fired bricks, and pottery led to the discovery of our first concrete.
- o Describe the first kilns that were developed to make cement.
- o Show the evolutionary steps from making lime to our modern portland cement concrete.

Low Compressive Strength Test Results? What They Mean and Next Steps...*

Topics covered in this presentation include:

- o Definitions related to strength testing;
- o Methods of sampling, fabrication, handling, and curing strength test specimens;
- o Acceptance criteria for strength tests;
- o Interpretation of strength test results not meeting acceptance requirements ;
- o Investigation of non-compliant concrete; and
- o Addressing low strength concrete issues in production.

Mass Concrete: How Big is Big?*

This presentation will discuss how to identify mass concrete, ACI 301 requirements pertaining to it, and good construction practices and covers the following topics:

- o Examples of mass concrete structures;
- o Identifying mass concrete in the field;
- o Specification requirements;
- o Factors influencing mass concrete; and
- o Mitigation or design.

AMERICAN COAL ASH ASSOCIATION SESSION

What Does Coal Have To Do With Concrete?

The cement and concrete industries consume almost 20 million tons of fly ash, bottom ash, and synthetic gypsum

annually. These materials are recovered following the combustion of coal in power plants generating electricity. This presentation by the American Coal Ash Association will provide an overview of the utility industry and a look at the future supply of these materials.

SLAG CEMENT ASSOCIATION SESSIONS

Slag Cement for Sustainable Concrete Construction

This session focuses on the sustainable benefits of slag cement use. The presentation will cover how the use of slag cement can reduce the environmental footprint of a structure, help projects qualify for LEED accreditation, and contribute to enhanced concrete performance. Case studies will illustrate how different mix designs using slag cement can reduce carbon emissions while increasing the strength and durability of concrete. Attendees will also get a tutorial of the Slag Cement EPD and Life Cycle Assessment Calculator tool available to download on the SCA website.

Slag Cement in Concrete

This session covers the basics of slag cement use in concrete mix design as well as how slag cement enhances the strength, durability, and overall performance of concrete. Learn how to incorporate slag cement in combination with portland cement and/or other supplementary cementitious materials to reach your project's desired outcomes, creating a less permeable and more sustainable concrete. Presenters will also review the various specifications and standards regarding slag cement use. The session will wrap up with case study examples of projects that used slag cement successfully in a variety of applications.

**Approved by ICC for 0.10 CEU (1 PDH). Approved by AIA for 1 LU hour.*

In most cases, ACI will cover the speaker's travel expenses up to \$1,000.

2 CONTACT ACI

Once you have determined your topic and date for your Chapter Meeting, contact the **ACI Chapter Activities department**:

Phone: +1.248.848.3830; E-mail: denesha.price@concrete.org

Website: www.concrete.org



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3 RECEIVE CONFIRMATION

Once your speaker has been assigned, you will receive:

- o A confirmation which will include the title and description of the topic;

- o Picture and bio of the presenter; and
- o Logistics of the meeting including date and time.



CHAPTER TALKS

Meet the Presenters

Thomas Adams



Executive Director
American Coal
Ash Association

Katie Amelio



Engineer
American
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Rex Donahey



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