

ALWAYS ADVANCING

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New & Best-Selling Products

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2021 Newsletter



American Concrete Institute
Always advancing



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CONVENTION



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Atlanta, GA, USA

THE WORLD'S GATHERING PLACE
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For more information, please visit [aciconvention.org](https://www.aciconvention.org).

THE ACI COMMUNITY

ACI members are part of a global community of 30,000+ members. To provide additional knowledge resources to members, the American Concrete Institute launched new member benefits beginning January 1, 2021.

Membership now includes free access to all ACI University webinars and on-demand courses, plus unlimited access to the Institute's practices (including all ACI guides and reports) and symposium papers, providing members with unprecedented access to all of the Institute's knowledge resources. It's so easy to earn the PDHs/CEUs that you need.

"Now is the best time to become an ACI member," states Melinda G. Reynolds, Director, Membership and Customer Service, American Concrete Institute. "All ACI members now have free access to ACI University's live webinars featuring industry experts delivering information and answering questions on many timely topics; plus, members now also



have free access to hundreds of online, on-demand courses. With these additional benefits, ACI provides our members with the knowledge needed to succeed in the concrete industry and remains the premier community for individuals dedicated to the best use of concrete."

Join others at ACI's twice-yearly conventions—the world's gathering place for concrete. You can join committees to advance the concrete industry and your career, as well as make an impact. ACI has more than 300 committees from which to choose. You also get access to tens of thousands of articles from ACI's *Concrete International* magazine, *Structural Journal*, *Materials Journal*, and the International Concrete Abstracts Portal. You can find all the member benefits at concrete.org. ■



American Concrete Institute
**Membership
Means
Knowledge!**



ACI LAUNCHES THE NEW ACI 318 PLUS

In March, the American Concrete Institute launched **ACI 318 PLUS**—an entirely new annual subscription that provides users with convenient digital interactive access to ACI CODE-318-19, “Building Code Requirements for Structural Concrete and Commentary,” along with in-document access to related resources, robust digital notetaking, and enhanced search.

ACI 318 PLUS also includes full digital interactive access to the *ACI Detailing Manual* and the *ACI Reinforced Concrete Design Handbook*, with functionality allowing subscribers to make digital notes alongside ACI CODE-318-19 provisions and commentary, as well as the included *Detailing Manual* and *Design Handbook*. The digital notetaking functionality allows subscribers to create up to 10 unique sets of notes for potential sharing with other ACI 318 PLUS users. Subscribers can also navigate content by section, by chapter, and/or



by provision. The ACI 318 PLUS platform is continuously updated and features 3-D graphics, many ACI CODE-318-19 related references, and FAQs.

“ACI has produced tens of thousands of pages of information related to concrete in the form of ACI codes, specifications, practices, symposium volumes, periodical issues, and education publications, and has delivered hundreds of webinars, on-demand courses, and convention session presentations,” stated Ronald G. Burg, PE, FACI, Executive Vice President, American Concrete Institute. “While that most certainly makes ACI one of the leading sources for concrete-related knowledge, it can make finding and accessing the right information challenging. ACI 318 PLUS changes that by allowing users to quickly and easily access various ACI content by making digital links between the Institute’s content on structural concrete design and related topics.”

ACI 318 PLUS is optimized for desktop and laptop computers and is available as single-user and five-user subscriptions, with pricing beginning at \$149/year. A free 1-year subscription is available to everyone who purchases or has already purchased ACI CODE-318-19 directly from ACI.

To learn more or subscribe, visit concrete.org/ACI318.

Please note that any additional resources linked within ACI 318 PLUS are there to assist in navigating ACI 318 and are not code requirements themselves. ■

ADDITIONAL RESOURCES IN ACI 318 PLUS ARE AVAILABLE FREE TO ACI MEMBERS, INCLUDING:

- Related articles from *Concrete International* magazine;
- Related articles from *ACI Materials Journal*;
- Related articles from *ACI Structural Journal*;
- ACI University on-demand courses covering Code provisions and related topics;
- Referenced ACI guides, reports, and TechNotes;
- Related articles from ACI Symposium volumes.





ACI CERTIFICATION IMPROVES CONSTRUCTION QUALITY AND CAREERS

The American Concrete Institute has been certifying concrete craftsmen, technicians, and inspectors for nearly four decades. With more than 30 certification programs available across concrete testing, inspection, and construction/specialist roles, the industry has seen considerable growth over the years in the number of projects requiring ACI-certified individuals.

To ensure the highest-quality construction, many project owners and specifiers go beyond code mandates by requiring both a greater number of certified workers on their jobsites and certification from a wider range of ACI programs. So far in 2021, thousands of individuals have earned certifications each month—many of whom are in newer offerings such as the Post-Installed Concrete Anchor Installation Inspector and Shotcrete Inspector programs, along with perennial favorites including Concrete Field Testing Technician – Grade I, Concrete Strength Testing Technician, and Concrete Flatwork Associate.

“The trend we’re seeing this year in the large number of individuals seeking ACI Certification is indicative of a broader industry demand for ACI-certified personnel on projects,” stated John W. Nehasil, Managing Director of Certification at the American Concrete Institute. “We’ll continue working with ACI chapters and sponsoring groups to ensure they’re equipped for the influx in training and exam inquiries.”

By applying the knowledge gained during certification training, many design and construction challenges can be

comprehensively understood and quickly addressed. ACI-certified individuals report that certification helps them with career advancement, including consideration for a broader range of positions and greater opportunities for promotion. Being certified also makes workers more valued members of their project teams.

VERIFY CERTIFICATION STATUS

ACI’s **online Certified Personnel Directory** (easily available at [concrete.org/verify](https://www.concrete.org/verify)), as well as the ACI Certification Verify app, available on iOS and Android platforms, can be used to quickly verify an individual’s certification status or to find certified individuals in a given area.

The Verify app was developed as a tool to use on the jobsite for a faster and more seamless verification process and is a useful resource for jobsite supervisors, members of the project team, and certified individuals seeking to provide proof of their certification status.

For more information, visit [ACICertification.org](https://www.ACICertification.org), contact aci.certification@concrete.org, or call +1.248.848.3790. ■



Certification



CERTIFYING 20,000+ CONCRETE SPECIALISTS ANNUALLY



From finishers and technicians, to supervisors, inspectors, and more, the American Concrete Institute provides 20,000+ certifications annually in nearly 30 programs across the globe. That's over 400,000 individuals certified since the programs were launched in the 1980s. Prove your knowledge, demonstrate your skills, and earn one of the concrete industry's most popular certifications. Learn how at concrete.org/certification.





ACI CONCRETE RESOURCE SUBSCRIPTIONS

Over the years, the American Concrete Institute has produced tens of thousands of pages of information and programs related to concrete and its uses. And each year, the Institute continues to develop additional content. This information is included in ACI codes, specifications, practices, symposium volumes, periodical issues, and educational publications. This knowledge is also delivered through webinars, on-demand courses, and recorded Convention session presentations.

Therefore, ACI has created a variety of resource subscriptions. These subscriptions allow users to quickly and easily access various ACI content that most relates to what they need. These subscriptions allow for digital and on-demand access to popular bundles of the Institute's leading technical and educational content.

ACI COLLECTION ONLINE

The online subscription to the *ACI Collection of Concrete Codes, Specifications, and Practices* includes nearly 50 codes and specifications plus 200+ practices (including all guides and reports). The ACI Collection features ACI 318, "Building Code Requirements for Structural Concrete"; ACI 301, "Specifications for Structural Concrete"; and ACI 562, "Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures and Commentary." Additional categories in the *ACI Collection* include concrete materials, properties, design, construction, reinforcement, specialized application, repair, structural analysis, and innovation, plus popular topics such as slabs, formwork, and masonry.

This subscription is continuously updated with the latest versions of ACI documents and includes all historical codes and specifications.

ACI 318 PLUS

This transformative new subscription from ACI includes full digital interactive access to ACI CODE-318-19, the *ACI Detailing Manual*, and the numerous design examples in the *ACI Reinforced Concrete Design Handbook*. Subscribers can also navigate content by section, by chapter, and/or by provision. The ACI 318 PLUS platform features 3-D graphics, all commentary references from ACI resources, and FAQs.

The platform includes a robust user notes functionality, allowing subscribers to create a set of custom provision-linked notes for any/all provisions of ACI 318 and the other documents on the ACI PLUS platform.

ACI UNIVERSITY SUBSCRIPTION

The ACI University All-Access Digital Subscription offers all-access to ACI University webinars and 250+ on-demand



courses. This 12-month subscription includes all ACI monthly webinars and ACI's 260+ on-demand courses. Some topics include: Admixtures; Codes; Cracking; Design; Durability; and much more.

ACI CONCRETE REPAIR SUBSCRIPTION

The ACI Concrete Repair Subscription includes digital access to the American Concrete Institute's technical and education content on concrete assessment, repair, rehabilitation, and more. Subscribe to receive 12 months of access to ACI's 200+ repair-specific code requirements/commentary, specifications, guides, reports, symposium volumes, and ACI University on-demand courses—plus all new concrete repair content as it is developed/published.

ACI SYMPOSIUM PAPERS SUBSCRIPTION

The Symposium Papers Subscription provides access to over 6000 papers published since 1962—including new papers that are published. Often focusing on practical applications, innovation, and niche topics, ACI Symposium volumes include papers presented at ACI Conventions, papers submitted as part of ACI Convention sessions, and other papers approved by the sponsoring committee. Symposium papers are available individually, bundled by topic into symposium volumes, and entirely as an annual subscription. ■

ACI Multi-User/ Multi-Site Solutions



From a single title, to a custom selection, to ACI's full collection, the American Concrete Institute partners with leading distributors to provide access to the Institute's published content for multiple locations and/or multiple users.

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ACI FOUNDATION— BUILDING THE FUTURE

The ACI Foundation programs have grown—more research, more student awards, better mentorship for students, and more engagement from volunteers who want to shape improvement in the industry.

ACI Past President Jeffrey Coleman’s \$1 million dollar fundraising challenge raised almost \$1.3 million in funds and pledges during his term as President, which ended in March 2021.

Through generous donations, the foundation has established several new fellowships, including the S.P. Shah Fellowship; Robert F. Mast Memorial Fellowship; the Roger S. Johnston Memorial Scholarship; and the Burg-Coleman Iowa State ‘77 ACI Fellowship. Additionally, donations from the estate of William (Bill) Maloney enabled the Foundation to fund more research and industry activities.

“I am excited and encouraged to see such growth in the ACI Foundation as our long-standing supporters and new donors have come together,” stated Ann M. Masek, Executive



Director, ACI Foundation. “Our programs can provide more progress and benefits to students, research, and technology. The advocacy of ACI President Coleman throughout his term and the support of our community demonstrates how together we can make a difference.”

The ACI Foundation Concrete Research Council selected eight research projects to receive grants in 2021. The ACI Foundation also strongly supports students joining the field of concrete—future designers, engineers, educators, construction managers, and contractors—and has provided financial support, and mentorship and internship opportunities in the concrete industry to almost 200 students in the last decade, including 22 students in 2021. With these increased contributions, the ACI Foundation will be able to fund even more deserving students, needed research, and promote industry-impacting activities. Donations can be made at [ACIFoundation.org](https://www.concrete.org). ■



ACI RESOURCE CENTER HOLDS FIRST PROGRAMS IN SOUTHERN CALIFORNIA

ADDITIONAL RESOURCE CENTER EXPECTED SOON

The American Concrete Institute Resource Center officially opened on May 1, 2021, in San Bernardino, CA, USA, with nearly 70 events, including certification programs, educational seminars, and hands-on trainings taking place through the end of the year.

Working with ACI chapters and ACI sponsoring groups, ACI Resource Centers offer on-demand access to all ACI certification programs; hands-on training; and educational offerings for the trades, contractors, inspectors, designers, and engineers.

In addition to the Southern California location, the Institute plans to open additional Resource Centers in high-demand regions throughout the United States, with a location in the Greater Chicago area expected soon. As demand for access to ACI offerings such as certification, education, and hands-on training continues to grow in various regions, ACI Resource Centers will serve as a place for the trades, engineers, contractors, designers, and more to advance their concrete knowledge. ■

UPCOMING PROGRAMS AT THE ACI RESOURCE CENTER – SOUTHERN CALIFORNIA INCLUDE:

- September 13: ACI Concrete Field-Testing Technician – Grade I Certification
- September 17: ACI Post-Installed Concrete Anchor Installation Inspector Certification
- October 14: ACI Adhesive Anchor Installer Certification
- November 11: ACI Masonry Field Testing Technician Certification
- November 29: ACI Nondestructive Testing Specialist – Concrete Strength Certification
- December 15: ACI Aggregate/Soils Base Testing Technician Certification

Additional details on further programming at the ACI Resource Center – Southern California and other locations are being developed now and will be posted to the **ACI Events Calendar**. Please visit [concrete.org/socalresourcecenter](https://www.concrete.org/socalresourcecenter) for updates and further announcements. ■



CONTINUING ADVOCACY FOR ACI CODES

The American Concrete Institute—as a recognized, leading worldwide authority and resource for individuals and organizations involved in concrete design, construction, and materials—has long focused its efforts on knowledge development and dissemination. Through its mission, the Institute also dedicates resources and effort to advance the adoption of its consensus-based knowledge.

It is critical to understand the importance of having ACI codes adopted at the national, state, and local levels. The adoption of ACI 318, “Building Code Requirements of Structural Concrete and Commentary”; ACI 562, “Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures and Commentary”; and other ACI standards into building codes around the world and in your neighborhood helps the industry achieve consistent quality and safety.

Over the last year, ACI has taken many advancements to further their code advocacy efforts. In 2020, ACI’s Code Advocacy Engineers created Advocacy Collaboration Groups. These new platforms allow for members to collaborate on state and model code initiatives. ACI collaboration groups have been established for Kansas, North Carolina, Pennsylvania, South Carolina, and Virginia.

The seventh edition of the Florida Building Code (FBC) was released for review in August 2020 and now references

ACI 562-19, “Code Requirements for the Assessment, Repair and Rehabilitation of Existing Concrete Structures.” Effective December 31, 2020, Florida will become the third state to reference ACI 562, joining Hawaii and Ohio.

In early 2021, ACI approved three new Position Statements on the topics of construction volume, public good, and workforce development. The Institute now has a total of 12 Position Statements on various topics supporting policy positions along with state, federal, and international programs, rules, and regulations.

ACI continues to find ways to have members stay up-to-date on all ACI advocacy efforts through ACI’s Code Advocacy Groups on LinkedIn. One of the LinkedIn Code Advocacy Groups is focused specifically on the advocacy efforts in the United States, and the other is dedicated to all the advocacy efforts taking place internationally. Becoming a member of one or both of these groups will help you receive the latest news and opportunities related to ACI code adoption and implementation.

If you have questions or would like ACI’s support, contact the American Concrete Institute’s Code Advocacy Engineers or visit [concrete.org/advocacy](https://www.concrete.org/advocacy). ■



ACI AND ARAMCO LAUNCH NEX

AN ACI CENTER OF EXCELLENCE FOR NONMETALLIC BUILDING MATERIALS

Nonmetallic materials are increasingly being deployed across multiple industries, including oil and gas, construction, automotive, packaging, and renewables. They offer several advantages over metallic materials, such as corrosion resistance, reduced weight, increased durability, lower cost, and improved environmental efficiency.

Based at ACI World Headquarters in Farmington Hills, MI, USA, NEX: An ACI Center of Excellence for Nonmetallic Building Materials will aim to achieve more sustainable building solutions through the advancement and accelerated use of nonmetallic materials and products in construction.

NEX will leverage ACI's role as a world-leading authority and resource for the development, dissemination, and adoption of consensus-based standards for concrete design, construction, and materials. ACI has published numerous guides, reports, and specifications on nonmetallics in concrete, and NEX will serve as a catalyst to incorporate more than 40 years of knowledge into the further acceleration of nonmetallic materials and technology.

"The mission of NEX will be to collaborate globally on using nonmetallic materials in the built environment by driving research, education, awareness, and technology adoption," said Jeffrey W. Coleman, ACI President. "Expanding incorporation of nonmetallic materials and products in the built environment will improve sustainability,

contribute to a lower carbon footprint, and enhance the durability and longevity of structures."

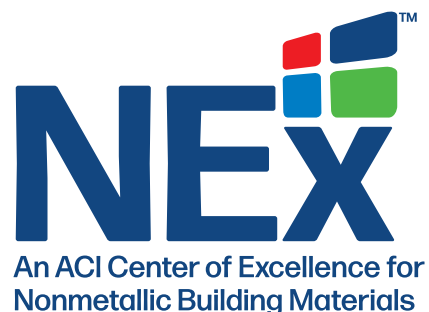
NEX plans to expand its scope to include the use of non-metallics in other construction materials, such as composite cladding, asphalt, and soil; and looks to draw additional partners from leading academic institutions, industries, technical societies, standard bodies, manufacturers, and professionals.

Dr. David A. Lange has been hired as Executive Director to oversee all operations and initially focus on identifying and recruiting new members interested in advancing nonmetallic building materials. Dr. Lange is a world-renowned construction material expert and Past President of the American Concrete Institute. He served as Associate Department Head for Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign from 2004-2010, and was a faculty member for nearly 30 years. Lange also served as Director of the Center of Excellence for Airport Technology at the University for 15 years.



"The advantages of nonmetallic polymer-based building materials are increasingly being recognized across the construction industry," said David A. Lange, Executive Director, NEX: An ACI Center of Excellence for Nonmetallic Building Materials. "The role of NEX will be to provide technically sound information to users and specifiers of these materials and provide appropriate quality control measures, so these materials are specified, procured, and installed with confidence."

To learn more about how NEX is advancing nonmetallics and to get involved, visit nonmetallic.org.



ADVANCING ACI'S TECHNICAL DOCUMENTS & COMMITTEES

The technical products of some of the American Concrete Institute's committees, in particular codes and standards, have grown voluminous over time by incorporating provisions related to new and/or improved technologies and improved knowledge.

ACI has continued to spend its time responding to expressed industry needs for code requirements and addresses them by developing new or updated technical codes and creating new technical committees.

It was announced in early 2020 that ACI was expanding partnerships with two other organizations to create two new committees to address unique aspects of concrete design. These committees are Joint ACI-PCI Committee 319, Precast Structural Concrete Code, and Joint ACI-PTI Committee 320, Post-Tensioned Structural Concrete Code.

Establishing these joint committees and creating these new documents will allow the codification of information that is already used by engineers and architects in everyday practice as well as providing one comprehensive document for the design of structural precast concrete and post-tensioning design.

The establishment of these joint committees will help expedite the adoption of both concrete designs into the concrete building code, but it will also enhance usability for the design engineer by consolidating provisions into one convenient document.

Both committees began meeting in 2020 and begin the process to have codes created in the future. Meetings are open to the public and held during the ACI Concrete Convention. Anyone interested is encouraged to register and sit in on upcoming committee meetings.

A lot of the new codes and standards developed by ACI are being designed to interact directly with ACI CODE-318. New technologies may be better accommodated, and codes and standards reduced in length, if select technologies are addressed by "feeder" committees that produce standardized documents which are referenced by overarching codes and standards.

For more information on ACI technical documents and committees, visit concrete.org. ■

OVER THE LAST YEAR, ACI HAS PRODUCED AND RELEASED FIVE NEW CODES AND SPECIFICATIONS. THOSE DOCUMENTS INCLUDE:

- ACI SPEC-301-20: Specifications for Concrete Construction
- ACI CODE-332-20: Code Requirements for Residential Concrete and Commentary
- ACI SPEC-522.1-20: Specification for Construction of Pervious Concrete Pavement
- ACI SPEC-548.15-20: Specification for Crack Repair by Epoxy Injection
- ACI SPEC-310.1-20: Specification for Polished Concrete Slab Finishes



ACI BEST-SELLING PRODUCTS OF 2021



ACI SPEC-301-20: Specifications for Concrete Construction



CP-19 24TH Ed. Technician Workbook for ACI Certification of Concrete Strength Testing Technician



ACI CODE-318-19: Building Code Requirements for Structural Concrete and Commentary



CP-44: Technician Workbook for ACI Certification of Aggregate Laboratory Testing Technician—Level 1 8th Edition



ACI CODE-562-19: Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures and Commentary



On-Demand Course: Concrete Field-Testing Technician Grade I Certification Training



CP-10 Craftsman Workbook for ACI Certification of Concrete Flatwork Finishing 3rd Edition



MNL-17(21): ACI Reinforced Concrete Design Handbook



CP-1 39TH Ed. Technician Workbook for ACI Certification of Concrete Field-Testing Technician - Grade I



MNL-3(20): Guide to the Code for Assessment, Repair, and Rehabilitation of Existing Concrete Structures



MNL-5(19): Contractor's Guide to Quality Concrete Construction, 4th Edition



SP-004: (8TH) Formwork for Concrete



MNL-66(20): ACI Detailing Manual



TMS 402/602 Building Code Requirements and Specifications for Masonry Structures, 2016 (Formerly ACI 530)

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UPCOMING EVENTS

AUGUST 12, 2021

ACI Houston Chapter Meeting
Sponsored By: ACI Houston Chapter

AUGUST 24, 2021

Virtual SDC Technology Forum 50
Sponsored By: ACI Foundation/SDC

SEPTEMBER 09, 2021

ACI Central Texas Chapter Meeting
Sponsored By: ACI Central Texas Chapter

SEPTEMBER 14, 2021

Webinar: Restoration Case Studies
Sponsored By: American Concrete Institute

SEPTEMBER 22, 2021

Webinar: 31st Annual Louisiana Civil Engineering Conference
Sponsored By: ACI Louisiana Chapter & ASCE New Orleans Branch

OCTOBER 05, 2021

Webinar: President's Series: Emerging Innovations in Materials for Concrete Construction
Sponsored By: American Concrete Institute

OCTOBER 07, 2021

ACI Houston Chapter Meeting
Sponsored By: ACI Houston Chapter

OCTOBER 17, 2021

ACI Concrete Convention (Fall 2021 – Atlanta)
Sponsored By: American Concrete Institute

NOVEMBER 01, 2021

Thirteenth International Conference on Superplasticizers and Other Chemical Admixtures in Concrete
Sponsored By: CANMET/American Concrete Institute

NOVEMBER 02, 2021

Webinar: Changes in One-and-Two-Way Shear (David Sanders)
Sponsored By: American Concrete Institute

DECEMBER 07, 2021

Webinar: Joints (Scott Tarr)
Sponsored By: American Concrete Institute

DECEMBER 10, 2021

4th R.N. Raikar Memorial International Conference
Sponsored By: ACI India Chapter

[View All Events](#)



Save Date

2021 ACI Excellence in Concrete Construction
Awards Gala at the Fall ACI Concrete
Convention in Atlanta, Georgia, USA

*Join
Us!*

Monday,
October 18, 2021




Excellence
in Concrete Construction Awards

For more information, visit ACIExcellence.org