



**American Concrete Institute®**  
*Advancing concrete knowledge*

38800 Country Club Drive  
 Farmington Hills, MI 48331  
[www.concreteseminars.com](http://www.concreteseminars.com)

## ACI/PCA Seminar—ACI 318-08 Building Code

Earn continuing education credit by attending this seminar!

### Locations & dates ▶

Atlanta, GA January 6, 2009	Salt Lake City, UT March 5, 2009
Houston, TX January 8, 2009	Cincinnati, OH March 10, 2009
Las Vegas, NV January 13, 2009	San Antonio, TX March 19, 2009
Seattle, WA January 15, 2009	Baltimore, MD March 26, 2009
Los Angeles, CA January 20, 2009	Jacksonville, FL March 31, 2009
Albuquerque, NM January 22, 2009	Omaha, NE April 2, 2009
Ft. Myers, FL January 27, 2009	Indianapolis, IN April 7, 2009
Austin, TX January 29, 2009	Nashville, TN April 21, 2009
Reno, NV February 10, 2009	Pittsburgh, PA April 23, 2009
San Diego, CA February 12, 2009	Milwaukee, WI April 28, 2009
Oklahoma City, OK February 17, 2009	Philadelphia, PA April 30, 2009
New Orleans, LA February 19, 2009	Boston, MA May 5, 2009
Williamsburg, VA February 26, 2009	Atlanta, GA May 7, 2009
Detroit, MI March 3, 2009	Chicago, IL May 12, 2009

# ACI 318-08 Building Code



### ACI/PCA One-day Seminar

Attend this seminar to learn the new Code provisions and how to implement them correctly in your day-to-day work. Instructors will explain each change, why it was made, and what it means to you as a designer and specifier of structural concrete.



**American Concrete Institute®**  
*Advancing concrete knowledge*



#### Topics to be covered include:

- Definition of exposure categories and classes for durability
- Enhanced structural integrity reinforcement
- Headed shear stud reinforcement and headed deformed bars
- New design requirements for most Seismic Design Categories
- Expanded and enhanced Appendix D, Anchoring to Concrete
- And much more!

**Receive FREE  
 publications  
 valued at  
 \$298.00.**



**American Concrete Institute®**  
*Advancing concrete knowledge*

38800 Country Club Drive  
 Farmington Hills, MI 48331  
[www.concreteseminars.com](http://www.concreteseminars.com)

PRESORTED STANDARD  
 U.S. POSTAGE  
**PAID**  
 THE TECHNICOM  
 GROUP

## ACI/PCA Seminar—ACI 318-08 Building Code

Earn continuing education credit by attending this seminar!

### Locations & dates ▶

Atlanta, GA January 6, 2009	Salt Lake City, UT March 5, 2009
Houston, TX January 8, 2009	Cincinnati, OH March 10, 2009
Las Vegas, NV January 13, 2009	San Antonio, TX March 19, 2009
Seattle, WA January 15, 2009	Baltimore, MD March 26, 2009
Los Angeles, CA January 20, 2009	Jacksonville, FL March 31, 2009
Albuquerque, NM January 22, 2009	Omaha, NE April 2, 2009
Ft. Myers, FL January 27, 2009	Indianapolis, IN April 7, 2009
Austin, TX January 29, 2009	Nashville, TN April 21, 2009
Reno, NV February 10, 2009	Pittsburgh, PA April 23, 2009
San Diego, CA February 12, 2009	Milwaukee, WI April 28, 2009
Oklahoma City, OK February 17, 2009	Philadelphia, PA April 30, 2009
New Orleans, LA February 19, 2009	Boston, MA May 5, 2009
Williamsburg, VA February 26, 2009	Atlanta, GA May 7, 2009
Detroit, MI March 3, 2009	Chicago, IL May 12, 2009

# ACI 318-08 Building Code



### ACI/PCA One-day Seminar

Attend this seminar to learn the new Code provisions and how to implement them correctly in your day-to-day work. Instructors will explain each change, why it was made, and what it means to you as a designer and specifier of structural concrete.



**American Concrete Institute®**  
*Advancing concrete knowledge*

#### Topics to be covered include:

- Definition of exposure categories and classes for durability
- Enhanced structural integrity reinforcement
- Headed shear stud reinforcement and headed deformed bars
- New design requirements for most Seismic Design Categories
- Expanded and enhanced Appendix D, Anchoring to Concrete
- And much more!

*Receive FREE publications valued at \$298.00.*



## seminar topics▶

There are many important changes in ACI 318-08. The licensed design professional is required to assign exposure categories and classes based on the severity of the anticipated exposure of structural members to achieve durability. Requirements are presented to select effective stiffness to determine lateral deflections. A new simple procedure helps determine if compression members are considered braced or unbraced. Provisions are introduced for the design of headed stud assemblies. Design and detailing requirements are correlated with the Seismic Design Categories in the IBC. The use of high-strength confining steel is permitted to help reduce congestion. The beneficial effect of supplementary reinforcement and anchor reinforcement on the capacity of anchors is quantified.

Some of the major topics covered in this seminar include:

- New provisions for headed shear stud reinforcement and headed deformed bars
- Licensed design professional to prescribe new exposure categories and classes for durability requirements
- Enhanced structural integrity requirements
- Modeling procedure for evaluation of lateral displacements
- Increased allowable concrete compression stress immediately after prestress transfer
- Use of supplementary reinforcement and anchor reinforcement to enhance the capacity of anchors
- Ductility requirements for anchors in seismic zones
- Reorganized and enhanced provisions for Earthquake-Resistant Structures in order of increasing Seismic Design Category
- Increased design yield strength for confinement reinforcement to help reduce congestion

Also covered in this seminar are the following topics:

- Introduction of “shear cap” and differentiation with “drop panel” for two-way slabs
- Strength test based on three 4 x 8 in. cylinders or two 6 x 12 in. cylinders
- A 12-month limit set on historical data used to qualify mixture proportions
- Modified strength reduction factors for spirally reinforced columns and plain concrete
- Simple procedure to define braced and nonbraced compression members, and reorganized column slenderness provisions
- Limits on depths of beams and hollow core units exempted from the requirement for minimum shear reinforcement
- Steel fiber-reinforced concrete as an alternative to minimum shear reinforcement
- Modified limit on shear friction strength for monolithically placed concrete and concrete placed against intentionally roughened concrete
- Modified load factors for required test load

*All instructors served on the committee that approved ACI 318-08. For more detailed information on the faculty, go to [www.concreteseminars.com](http://www.concreteseminars.com).*

ACI and PCA are not responsible for statements or opinions expressed by instructors.

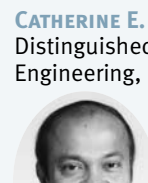
## faculty▶

Two of the following will be your instructors:

**RONALD A. COOK PHD, PE, FACI**, is a Professor of civil engineering at the University of Florida.



**CHARLES W. DOLAN, PHD, PE, FACI**, is the H. T. Person Professor of Engineering at the University of Wyoming, College of Engineering, Laramie, WY.



**CATHERINE E. FRENCH, PHD, FACI, FPCI**, is IT Distinguished Professor, Department of Civil Engineering, University of Minnesota.



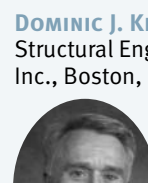
**S.K. GHOSH, PHD, FACI**, is President of S.K. Ghosh Associates Inc., Palatine, IL, and Laguna Niguel, CA, and an Adjunct Professor of civil engineering at University of Illinois, Chicago, IL.



**JAMES R. HARRIS, PHD, PE, FACI**, is Principal at J. R. Harris & Company, Structural Engineers, Denver, CO.



**NEIL M. HAWKINS, PHD, FACI, FPCI, MASCE**, is a Professor Emeritus of civil engineering at the University of Illinois at Urbana-Champaign, IL, and an Adjunct Professor at the University of Washington.



**DOMINIC J. KELLY, MS, PE, SE**, is a Consulting Structural Engineer for Simpson Gumpertz & Heger Inc., Boston, MA.



**CARY KOPCZYNSKI, PE, SE, FACI**, is President of Cary Kopczynski & Company, Inc., P.S., Bellevue, WA.



**LAWRENCE C. NOVAK, MS, SE, SECB, LEED® AP**, Manager, Building Structures, Portland Cement Association, Skokie, IL.



**BASILE G. RABBAT, PHD, SE, FACI**, is the Manager, Structural Codes at Portland Cement Association, Skokie, IL.



**JULIO A. RAMIREZ, PHD, FACI**, is a Professor in the School of Civil Engineering at Purdue University, West Lafayette, IN.



**JAMES K. WIGHT, PHD, PE, FACI, FASCE**, is the F.E. Richart, Jr. Collegiate Professor of Civil Engineering at the University of Michigan.

## who should attend ▶

Engineers, architects, specifiers, building officials, and others involved with structural concrete.

## seminar times ▶

Registration begins at 7:45 a.m., with the seminar running from 8:00 a.m. to 5:00 p.m. Continental breakfast, lunch, coffee breaks, and free publications are included.

## hosts ▶

This seminar is a joint effort of the American Concrete Institute and the Portland Cement Association. ACI publishes the 318 Building Code and other concrete codes and standards. Long an active participant in ACI Committee 318, PCA has maintained the committee Secretariat for over 50 years. PCA produces the *Notes on ACI 318* to assist the engineer and architect in the proper application of the ACI 318 design standard. Since 1983, PCA and ACI have presented seminars on changes introduced in each new edition of the 318 Code. The seminar is cosponsored by your local ACI Chapter and other local groups.

## nonmembers of aci ▶

Pay the standard seminar registration fee (\$597), and you are entitled to a complimentary, one-time, 6-month membership, a \$107 value. Your membership will start following your attendance at the 318 Code seminar. Membership includes a monthly issue of *Concrete International*, a bimonthly issue of the *ACI Structural Journal*, discounts on ACI publications, and much more. This offer is available by registering online at [www.concreteseminars.com](http://www.concreteseminars.com) or by contacting ACI for details.

## free publications—a \$298.00 value! ▶

- ACI 318-08: Building Code Requirements for Structural Concrete and Commentary
- PCA *Notes on ACI 318-08*
- Seminar lecture notes

## continuing education credit ▶

Attendees receive 0.75 CEUs, worth 7.5 PDHs.

Approved course provider for:

- American Institute of Architects (G115; 318)
- Florida Board of Professional Engineers (Provider #0003855)
- The University of the State of New York, State Board for Engineering
- Louisiana Professional Engineering and Land Surveying Board
- North Carolina Board of Examiners for Engineers and Surveyors
- Wisconsin Safety and Buildings Division (Course 9797)

## refund policy ▶

Substitutions are accepted at any time. If your substitute qualifies at a different registration fee, a credit or surcharge may apply. If you cannot attend the seminar, please notify the ACI Seminar Registrar at 248-848-3815 immediately. If you notify us 7 or more working days before the seminar, we will refund your registration fee. If you notify us that you cannot attend within 3 to 6 working days before the seminar, we will issue you an ACI Credit for the full amount of your registration fee that you may redeem for any future ACI seminar, product, or service. If you notify us that you cannot attend less than 3 working days before the seminar date, we will issue you an ACI Credit minus a \$75 administrative fee. Confirmed participants who do not attend are liable for the entire fee unless we are notified in advance of the seminar date that you cannot attend. If ACI cancels a seminar due to insufficient enrollment, your registration fee will be refunded. ACI is not responsible for any incidental or consequential damages such as nonrefundable airfare.

## request for in-house seminar quote ▶

Let ACI bring the latest concrete technology to your doorstep. An in-house seminar on virtually any concrete-related topic can be brought directly to your office. Pricing is dependent upon the topic and the length of the seminar. ACI publications are available at a substantial discount when an in-house seminar is held. Save time and money by scheduling an in-house seminar today.

Attach your business card or complete the following:

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

Contact or return the completed form to:

Kelly Dudley  
American Concrete Institute  
P.O. Box 9094  
Farmington Hills, MI 48333-9094  
Phone: 248-848-3709; Fax: 248-848-3792;  
or e-mail: [Kelly.Dudley@concrete.org](mailto:Kelly.Dudley@concrete.org)

For available topics, go to [www.concreteseminars.com](http://www.concreteseminars.com)

## NEW—Earn CEUs Online ▶

Experience the convenience and value of e-learning. This new service is **FREE to ACI members** and available to nonmembers for a nominal fee. E-learning, delivered via ACI's Web site, will help you fulfill your continuing education requirements. For a complete list of topics, go to [http://www.concrete.org/education/edu\\_online\\_CEU.htm](http://www.concrete.org/education/edu_online_CEU.htm).

Download and read the concrete-related document of your choice and take a short quiz. Upon successful completion of the quiz, you will receive a certificate of completion indicating the number of CEUs earned. A maximum of .8 CEUs (equivalent to 8 PDHs) can be earned each year by this method. ACI educational opportunities. It's not just about seminars anymore!



## seminar registration ▶ Please check seminar location and date.

3188

- |     |   |     |  |     |   |
|-----|---|-----|--|-----|---|
| GAS | <input type="checkbox"/> ATLANTA, GA—January 6, 2009<br>Instructors: Ghosh and Rabbat         | OKS | <input type="checkbox"/> OKLAHOMA CITY, OK—February 17, 2009<br>Instructors: Harris and Rabbat | INS | <input type="checkbox"/> INDIANAPOLIS, IN—April 7, 2009<br>Instructors: Novak and Ramirez |
| TXS | <input type="checkbox"/> HOUSTON, TX—January 8, 2009<br>Instructors: Hawkins and Rabbat       | LAS | <input type="checkbox"/> NEW ORLEANS, LA—February 19, 2009<br>Instructors: Hawkins and Rabbat  | TNS | <input type="checkbox"/> NASHVILLE, TN—April 21, 2009<br>Instructors: Rabbat and Ramirez  |
| NVS | <input type="checkbox"/> LAS VEGAS, NV—January 13, 2009<br>Instructors: French and Novak      | VAS | <input type="checkbox"/> WILLIAMSBURG, VA—February 26, 2009<br>Instructors: Novak and Wight    | PAS | <input type="checkbox"/> PITTSBURGH, PA—April 23, 2009<br>Instructors: Harris and Novak   |
| WAS | <input type="checkbox"/> SEATTLE, WA—January 15, 2009<br>Instructors: Kocczynski and Rabbat   | MIS | <input type="checkbox"/> DETROIT, MI—March 3, 2009<br>Instructors: Rabbat and Wight            | WIS | <input type="checkbox"/> MILWAUKEE, WI—April 28, 2009<br>Instructors: Rabbat and Wight    |
| CAS | <input type="checkbox"/> LOS ANGELES, CA—January 20, 2009<br>Instructors: Ghosh and Rabbat    | ITS | <input type="checkbox"/> SALT LAKE CITY, UT—March 5, 2009<br>Instructors: Dolan and Rabbat     | PHS | <input type="checkbox"/> PHILADELPHIA, PA—April 30, 2009<br>Instructors: Rabbat and Wight |
| NMS | <input type="checkbox"/> ALBUQUERQUE, NM—January 22, 2009<br>Instructors: Dolan and Rabbat    | OHS | <input type="checkbox"/> CINCINNATI, OH—March 10, 2009<br>Instructors: Harris and Novak        | MAS | <input type="checkbox"/> BOSTON, MA—May 5, 2009<br>Instructors: Kelly and Rabbat          |
| FLS | <input type="checkbox"/> FT. MYERS, FL—January 27, 2009<br>Instructors: Novak and Rabbat      | SAS | <input type="checkbox"/> SAN ANTONIO, TX—March 19, 2009<br>Instructors: Rabbat and Ramirez     | ATS | <input type="checkbox"/> ATLANTA, GA—May 7, 2009<br>Instructors: Ghosh and Rabbat         |
| AUS | <input type="checkbox"/> AUSTIN, TX—January 29, 2009<br>Instructors: Hawkins and Rabbat       | MDS | <input type="checkbox"/> BALTIMORE, MD—March 26, 2009<br>Instructors: Kelly and Rabbat         | ILS | <input type="checkbox"/> CHICAGO, IL—May 12, 2009<br>Instructors: Ghosh and Novak         |
| RES | <input type="checkbox"/> RENO, NV—February 10, 2009<br>Instructors: Hawkins and Novak         | JAS | <input type="checkbox"/> JACKSONVILLE, FL—March 31, 2009<br>Instructors: Cook and Rabbat       |     |   |
| SDS | <input type="checkbox"/> SAN DIEGO, CA—February 12, 2009<br>Instructors: Koczynski and Rabbat | NES | <input type="checkbox"/> OMAHA, NE—April 2, 2009<br>Instructors: Harris and Rabbat             |     |   |

If you have a disability that requires special accommodations, please check here and submit a statement regarding your disability-related needs.

You will be sent confirmation of your registration with the address of the seminar. See [www.concreteseminars.com](http://www.concreteseminars.com) for additional cosponsors. If it's necessary to substitute an instructor, an individual with similar qualifications will be used.

## fees and sign-up ▶

**\$597 Nonmember Registration Fee**  
**\$457 ACI National Members and Employees of PCA Member Firms Registration Fee**

**\$125 Full-Time Students (with proof of enrollment)**

Two- or three-character promotional code listed above your name on the mailing label: \_\_\_\_\_

To qualify for the discounted ACI National Members Seminar Fee, please provide your ACI Member number next to your name.

Discounted student seminar fee is only for full-time students under the age of 28. Include current proof of enrollment with your registration.

NAME		ACI MEMBER NO.:	
TITLE		<b>Registration Fee: \$</b>	
COMPANY		ADDRESS 1	
ADDRESS 2		CITY, STATE, ZIP	
PHONE	FAX	E-MAIL	

## payment ▶

- I am paying by check (payable to ACI)
- Please charge to: (circle one)    VISA    MasterCard
- Account Number: \_\_\_\_\_
- Expiration Date: \_\_\_\_\_

Please charge to my ACI member account  
 Current ACI national members only. Registration from all others must be accompanied by full payment, charged to a credit card, or reserved by government or company purchase order (ACI federal ID# is 38-0296490). All payments must be in U.S. funds and issued from a U.S. bank.

## register today ▶

**web:** [www.concreteseminars.com](http://www.concreteseminars.com)

**mail:** American Concrete Institute  
 Member Services  
 P.O. Box 9094  
 Farmington Hills, MI 48333-9094

**fax:** 248-848-3801 (24 hours a day)

**phone:** Member Services  
 248-848-3815  
 8 a.m.-5 p.m. ET