

An Overview of ACI 318-19 for the 2021 IBC

Hosted by the Structural Engineers Association of Oregon (SEAO)

Date: Tuesday, April 25, 2023 – 8:30 AM to 4:30 PM
Registration Opens at 8:00 AM (Lunch Included)

Cost: \$200 SEAO Member (Includes Class Notes) \$250 Non-member
\$25 Late Fee (if registration received after April. 18, 2023)
Students \$65 (Includes Notes) – Must show current student ID
No refunds after 12:00 noon Tuesday, April. 18, 2023

Register early; Maximum 100 people

Location: Sheraton Portland Airport Hotel and Conference Center
8235 NE Airport Way
Portland, Oregon (503) 249-7606

Program to be Taped by Limelight Video

Continuing Education: SEAO has recommended this seminar for 6 PDHs (5 PDHs for Viewing Video)

Speakers: **S. K. Ghosh, Ph.D., President, S. K. Ghosh Associates Inc.**
Kirsten Zeydel, SE, Structural Consultant, S. K. Ghosh Associates Inc
S. K. Ghosh Ph.D., is a highly acclaimed speaker and author on seismic-related issues and concrete design, and has been involved with the development of national codes and standards.
Kirsten Zeydel, SE, is the Director of Design at Nevell Group, Inc. and a Structural Consultant with S.K. Ghosh Associates. She is a licensed Structural Engineer based in Southern California, with over twenty years of experience in structural design. Kirsten has experience with all structural materials.

The 2021 IBC has been available since October 2020. It has been adopted by the state of California on January 1, 2023. Oregon has also just adopted the same code. The 2021 IBC Chapter 19, Concrete adopts ACI 318-19, whereas ACI 318-14 was the referenced standard in the 2018 IBC. There is a large number of technical changes from ACI 318-14 to ACI 318-19, many of which are quite substantive and some of which are of far-reaching consequences. An overview of the extensive changes will be provided at this day=long seminar. Some of the bigger ACI 318-19 changes are:

- Introduction of high-strength reinforcement (80- and 100-ksi yield strength)
- Introduction of reinforcement grade factor in equation for straight bar development length
- New equation for hooked bar development length
- New and simpler one-way shear equations for nonprestressed members
- Updated two-way shear provisions for two-way slabs
- Newly added provisions for screw anchors and shear lugs
- Introduction of shotcrete provisions
- Deep foundation design provisions of IBC/ACE 7 imported into ACI 318

Extensive and important revisions to Chapter 18, Earthquake-resistant structures, including very substantive changes to the special shear wall design provisions.

Questions: Andy Stember (503) 657-9800