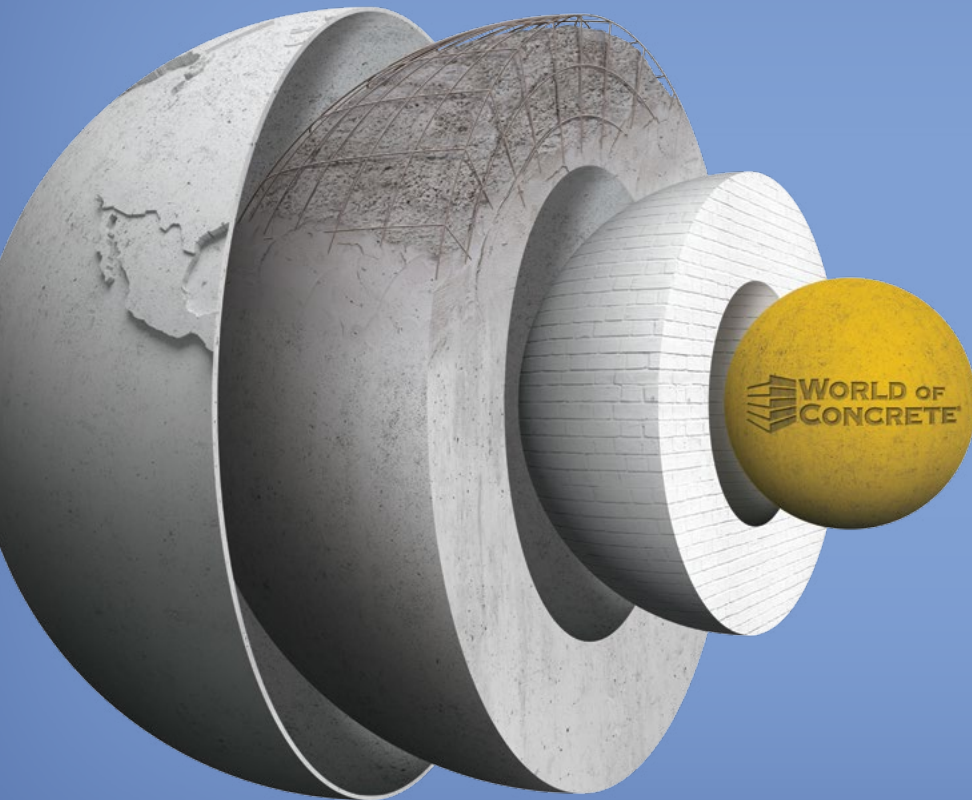


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EXHIBITS: JANUARY 23-26, 2018

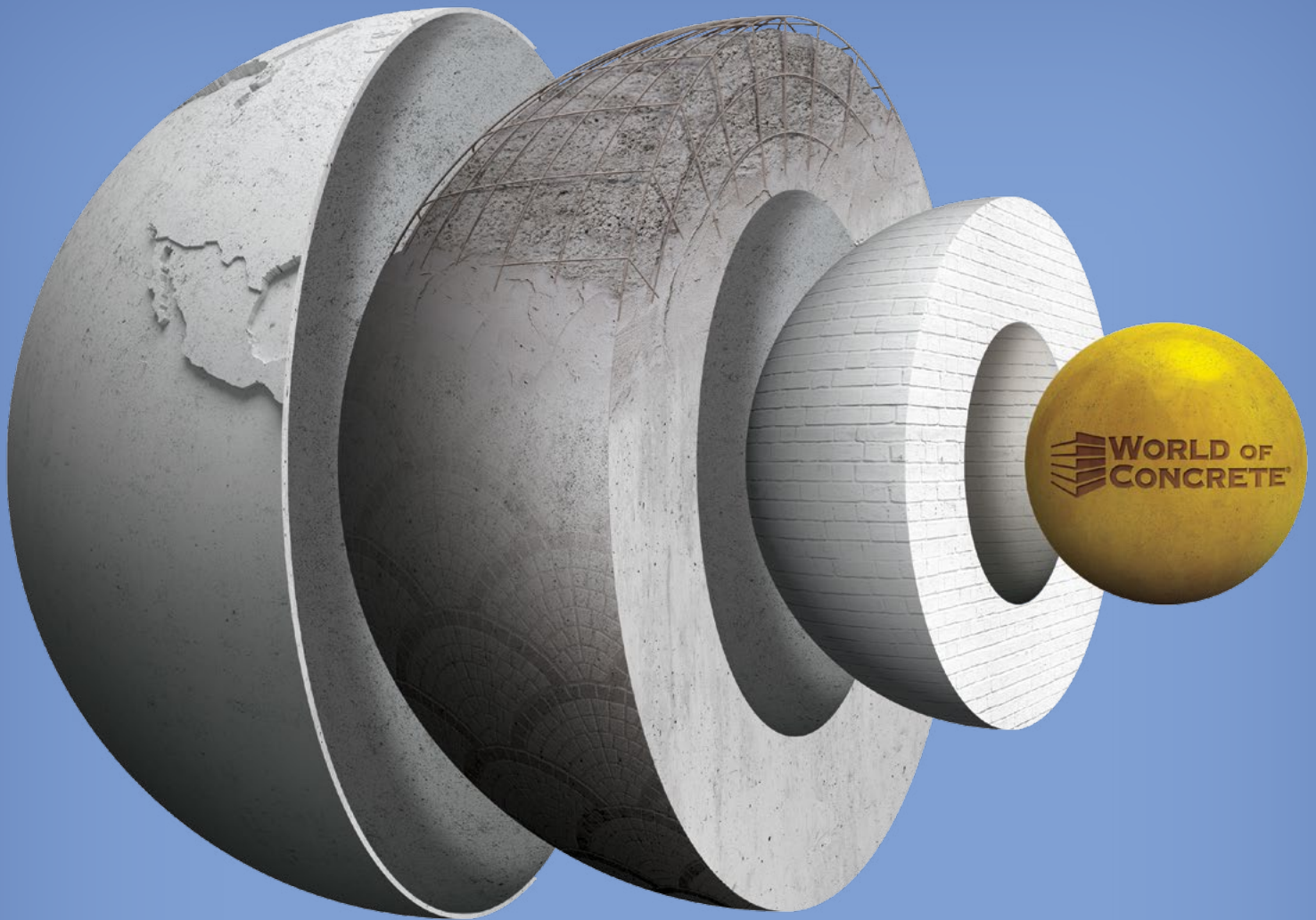
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industry-leading suppliers, must-see innovations, action-packed competitions and unique events, located right next to the South Hall.

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At World of Concrete, you have access to every option in one single event, so you can make key decisions for your business in the coming year.

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Everything for producing concrete masonry including block, segmental retaining wall units, veneer, slabs, pavers and more:

- Admixtures
- Equipment & Supplies
- Pigments

CONCRETE REINFORCEMENT • North Hall

Reinforcement bending, cutting, straightening and fabricating machinery:

- Reinforced positioners & locators
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- All types of reinforcement accessories

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Precast products, technologies and equipment including coring machines, pipe unloaders, precast forms, above/below ground precast, concrete pipe, molds, curing systems, prefabricated bridge systems, and more.

PRODUCER CENTER • North Hall

Batch plants, concrete mixing equipment, admixtures, mobile batch plants and everything for concrete production you can think of.

WORLD OF MASONRY • North Hall

Scaffolding, mastclimbing, grout pumps, mortar mixes, masonry tools—anything and everything for the masonry trade.

TECHNOLOGY FOR CONSTRUCTION • Central Hall

The latest technology for concrete companies, including estimating tools, design software, drone software, business solutions and more.

MATERIAL HANDLING • Central Hall

The latest in earthmoving equipment, trucks, loaders, backhoes, aerial platforms, mini-excavators, cranes, forklifts and other transport solutions.

REPAIR & DEMOLITION • South Hall

The whole range of scarifying, grinding and sawing equipment, surface preparation equipment, dust collection systems and more.

CONCRETE SURFACES & DECORATIVE • South Hall

Hardeners, sealants, coatings, waterproofing, colorants and the latest tools for decorative concrete professionals—plus, LIVE demos in the outdoor Concrete Surfaces & Decorative Pavilion in front of South Hall!

REGISTER TODAY >>> www.worldofconcrete.com

BUILDING UP OUR INDUSTRY

World of Concrete is where the entire industry comes together. Many of our cosponsoring associations hold their annual board and committee meetings here. As the world's leading event for the concrete construction trades, we value the support of these leading industry associations and supporting organizations:



American Concrete Institute



American Concrete Pavement Association



American Concrete Pumping Association



American Shotcrete Association



American Society of Concrete Contractors



Associated Construction Distributors International



Basement Health Association



Canadian Ready Mixed Concrete Association



Concrete Foundations Association



Concrete Reinforcing Steel Institute



Concrete Sawing™ & Drilling Association



International Concrete Repair Institute



International Grooving & Grinding Association



Portland Cement Association



Post Tensioning Institute



Precast/Prestressed Concrete Institute



Tilt-up Concrete Association



Wire Reinforcement Institute

SUPPORTING ORGS:



Expanded Shale, Clay & Slate Institute



Fiber Reinforced Concrete Association

BRONZE LOT EXHIBITS & EVENTS

The Bronze Lot located next to South Hall adds a new dimension to the 2018 show with exciting championships, skills challenges, creative demos and events you won't want to miss.

Masonry Madness™



Wednesday, January 24 • 9:00 am – 12:00 pm

In one jam-packed day, see masonry professionals compete in the year's most exciting competitions of skill! The world's best bricklayers go trowel-to-trowel in the SPEC MIX BRICKLAYER 500® World Championship, with top mason tenders competing for the fastest setup time in the SPEC MIX Toughest Tender®. Plus, mason/tender teams show off their speed and craftsmanship in MCAA's Fastest Trowel on the Block, and apprentices compete in the national finals of MCAA's Masonry Skills Challenge.

Masonry Innovations & Workforce Development Zone

Positioned in the center of the 100,000 square foot fanfare of masonry promotions, WOC show-goers can become participants in several product and equipment demonstrations hosted by companies showcasing the latest technological developments advancing the masonry industry.

John Deere Operator Challenge



Get in the driver's seat and test your speed and accuracy on a 4WD loader, skid steer, backhoe or excavator—daily prizes awarded for top scorers!

Waterproofing LIVE!



Waterproofing LIVE! will feature examples of the newest techniques and products used to prevent water and moisture intrusion on a variety of structures. Each of these customized educational activities are designed to encourage attendee interaction, while learning a robust installation technique designed to improve overall system performance. This interactive learning activity will focus on at least two key details commonly found in moisture control; eliminating water intrusion from the slab and foundation; and the installation of a moisture prevention barrier system for below and above grade concrete features.

Western Star Trucks Get Tough Challenge



See who's the best Class 8 severe duty truck operator! Contestants demonstrate their skills at frequent tasks on construction sites, including backing into park stations, parallel parking, backing along an S-curve, performing a three-point turn and driving over a ramp made of granular fill.

SPECIAL EVENTS / TOURS / WORKSHOPS

16th Annual "Most Innovative Products" Contest



Help decide the winners! First, check out the year's latest innovations when you stop by exhibitors' booths, and then vote for your favorite(s) at the show or online.

Decorative Concrete LIVE!



Concrete Decor magazine and the Concrete Decor Road Show will take the stage at the 2018 World of Concrete as sponsors of Decorative Concrete LIVE! A must-see for every WOC attendee, it's the place top artisans and innovators from across the USA and around the world will gather to showcase the best in architectural and decorative concrete.

2018 CIM Silent & Live Auction

Wednesday, January 24 • 11:00 am Silent, 1:00 pm Live Auction Begins



Show your support—bid on concrete equipment, cement and supplies, exciting vacation and sports packages and other valuable items to support the next generation of concrete pros. These live and silent auctions are a major funding source for Concrete Industry Management programs at several public universities. www.concretedegree.com

FEATURED EXHIBITORS DEMOS AT WOC

MB Crusher America, Inc. Booth O30744



MB Crusher America, Inc. will have live demonstrations of its crushing and screening attachments, both an excavator and a skid loader attachment model. Attendees will see how these jaw crushers can manage crushing tough material, such as granite and concrete (reinforced and non-reinforced), and trommel screens sift through various material.

Demo Schedule: Every 20 minutes from the top of the hour throughout the day

PLEXXIS SOFTWARE Booth C3424



Learn how ELITE performers unite their teams and attract talent with specialty contractor technology that enables 2-3x revenue, with no added admin staff, and the mastery of change orders, cost projections, WIP, drawings, documents, material, equipment and labor management. www.plexxis.com

Demo Schedule: Tuesday, Jan. 23 - Thursday, Jan. 25, 11:00 am & 2:00 pm

PROFLEX Booth N2964



ProFlex will be demonstrating the easy handling, extreme durability and flexibility of ProFlex Vinyl Expansion Joints. ProFlex is manufactured from 100% recycled vinyl, and no adhesive binders are used in the process. It can be used as radius filler and as a concrete form. www.protect-allflooring.com

Demo Schedule: Upon Request

OZTEC Industries Booth N2226



Want to cut your vibrating cost and time? Oztec is excited to demonstrate how our patented Rebar Shaker® will solve a variety of concrete consolidation problems. From highly congested rebar, where it is too tight for a standard vibrator head, to cell-block walls, to protecting delicate ICF forms our Rebar Shaker® will do the job. www.oztec.com

Demo Schedule: Tuesday, Jan. 23 - Thursday, Jan. 25, 11:00 am & 3:00 pm

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THE CUTTING EDGE

BREAKFASTS, LUNCHEONS & FORUMS

Hoover Dam & Bypass Bridge Tour

Sunday, January 21 • 12:00 pm - 5:00 pm

Friday, January 26 • 12:00 pm - 5:00 pm

  Join Rick Yelton, World of Concrete's Editor at Large, on a visit to two of the world's most famous concrete structures, Hoover Dam and Bypass Bridge. Behind the scenes information will be shared on how these concrete structures, built more than 50 years apart, played an important part in the development of new standards in concrete construction.

\$120; \$140 after 12/4/17 and onsite

NEW! Construction of the Hoover Dam and Hoover Dam Bypass Presentation

Friday, January 26 • 10:00 am - 11:30 am


In this new and exciting presentation, attendees will learn how contractors used the best-practices of the day in the construction of the Hoover Dam and the Hoover Dam Bypass Bridge. Although the construction projects were separated by 75 years, each project faced similar difficulties i.e. extreme temperatures, difficult soil condition, lack of access to the construction site, and meeting tight budgets and deadlines on a one-of-a-kind project.

Presented by Luke M. Snell, PE, FACI, Chair of ACI History Committee with Rick Yelton, Editor at Large, World of Concrete.

NOTE: Separate registration and fee required for the tour.

HDFP Fee: **\$85**; \$105 after 12/4/17 and onsite. Discounted fee of \$75 with purchase of either HDS or HDF tours before 12/4/17.

NEW! Nondestructive Testing: Advanced Methods for Evaluation of Concrete

Presented by 


North Hall • Monday – Tuesday, January 22 – 23 • 8:00 am – 5:00 pm

This new two-day workshop includes a combination of presentations and demonstrations that will cover basic concrete science and the principles of methods available for the evaluation of concrete structures. Discussions will focus on understanding how these evaluation methods work and how they should be applied; in addition to recognizing limitations of each. IMPORTANT: Registration includes digital copy of presentations and a certificate of course completion. Lunch is on your own. Space is limited to 40 participants, so register early!

MTNDT Fee: **\$675**; \$750 after 12/4/17 and onsite

Questions about this workshop should be directed to Mariana Lara, Germann Instruments USA, (847) 329-9999 or germann@germann.org. For a detailed course agenda visit www.germann.org.

NEW! Innovations in Concrete: Crack Reduction & 3D Printing of Construction Materials Presentation & Forum

Presented by 

North Hall • Monday, January 22 • 1:00 pm – 4:30 pm

Sika Corporation presents 'Innovations in Concrete Crack Reduction & 3D Printing of Construction Materials' designed for engineers, consultants, owners, concrete producers and contractors who are interested in learning about crack and shrinkage mitigation in concrete.

MOCCR Fee: **\$115**; \$135 after 12/4/17 and onsite

Questions about this session should be directed to Jeremy Chilton, chilton.jeremy@us.sika.com or 201-508-6660.

Breakfast with the Experts at World of Concrete

Sponsored by 

Tuesday – Thursday, January 23 – 25 • 6:45 am - 7:45 am

Tuesday – Thursday, January 23 – 25 • 8:15 am - 9:15 am

Breakfast with the Experts provides attendees peer-to-peer opportunities each show morning to pose their technical, or not so technical, questions to leading concrete industry experts. NEW for 2018, an expert will be on hand to answer questions about expansion joint systems. Hot breakfast is included.

NOTE: For special savings, purchase the discounted package with all 3 mornings - see code TWTBE (1 or 2) Fee: **\$110** (\$145 after 12/4/17). Breakfast Fee: \$45 per morning session; \$60 after 12/4/17 and onsite

Concrete Polishing Luncheon & Forum

Presented by  

Tuesday, January 23 • 11:30 am - 1:30 pm

The First Cut: Maximizing Tool Utilization

Every concrete floor is a little different—hard, soft, flat, bumpy, cracked. At the luncheon contractors and polishing experts will present a number of floor options and share their inside knowledge on how they maximize productivity and profit under all these various scenarios.

\$95; \$115 after 12/4/17 and onsite; \$85 with purchase of Super Pass

Quality in Concrete Slabs Luncheon & Forum: Building Concrete Floors Without Joints

Presented by  

Wednesday, January 24 • 11:30 am - 1:30 pm

Since joints are usually the first place concrete floors deteriorate, eliminating joints eliminates a lot of problems for owners. Several different systems for placing extended joint floors have emerged over the past few years and at this luncheon a group of contractors with experience in each floor system will describe their experience and debate which is best.

Sponsored by  

\$95; \$115 after 12/4/17 and onsite; \$85 with purchase of Super Pass

Steel-Fiber Reinforced Concrete Floors Luncheon & Forum

Sponsored and presented by 

Thursday, January 25 • 11:30 am - 1:30 pm

Profit by Using Steel-Fiber Reinforced Concrete in Unique Applications

Quality control is an important element in seamless floor construction. Verifying proper fiber disbursement in fresh concrete is difficult. Experts will report on a new quality control tool to measure steel-fiber dispersion that could replace wash-out tests and provide continuous, instantaneous data during placement.

\$95; \$115 after 12/4/17 and onsite; \$85 with purchase of Super Pass

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CONCRETE FUNDAMENTALS

MO01

Monday, January 22, 2018 • 8:00 am - 11:00 am **Concrete Basics I: Concrete Materials, Mixtures, Batching & Transporting**

Jeff Groom, PE, GHD Inc.

Rich Szecsy, PhD, PE, Texas Aggregates and Concrete Association

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Materials used in concrete and role of each
2. Mixture proportions, terminology and format
3. Commonly measured fresh concrete properties and how each is tested
4. Problems associated with fresh concrete properties and corrective measures

See Part II, MO02 & Part III, TU03.

NOTE: This series is intended to introduce the basics of good concrete practice to individuals who are new to the concrete industry.

See Mix Design & Testing Labs **Hands-on Training:**
Tues - Thurs, 11:30 am - 3:00 pm & 1:30 pm - 5:00 pm

MO02

Monday, January 22, 2018 • 1:00 pm - 4:00 pm **Concrete Basics II: Depositing, Testing, Placing, Finishing & Curing Concrete**

Jeff Groom, PE, GHD Inc.

Rich Szecsy, PhD, PE, Texas Aggregates and Concrete Association

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Role of codes and contractor requirements when ordering concrete
2. How concrete is manufactured and problems that arise during manufacturing
3. Various techniques and equipment for placing concrete
4. Common steps to finishing all concrete

See Part I, MO01 & Part III, TU03.

NOTE: This series is intended to introduce the basics of good concrete practice to individuals who are new to the concrete industry.

See How to Place & Finish Floors **Hands-on Training:**
Wed, 1:00 pm - 5:00 pm; Thurs 8:00 am - 12:00 pm & 1:00 pm - 5:00 pm

TU03

Tuesday, January 23, 2018 • 8:00 am - 11:00 am **Concrete Basics III: Typical Problems, Durability & Trending Applications**

Jeff Groom, PE, GHD Inc.

Michelle Wilson, FACI, Portland

Cement Association

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Why and how concrete is cured
2. Common problems with hardened concrete
3. Hardened properties of concrete and how each is measured
4. Application trends for the industry

See Part I, MO01 & Part II, MO02.

NOTE: This series is intended to introduce the basics of good concrete practice to individuals who are new to the concrete industry.

WE04

Wednesday, January 24, 2018 • 8:00 am - 11:00 am

What Everyone Receiving Fresh Concrete at the Jobsite Should Know

Jay Shilstone, FACI, Command Alkon Inc.

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Adding water and other materials to ready mixed concrete
2. Maximum amount of water that can be safely added to concrete
3. Proper testing and curing conditions of concrete samples
4. Common concrete problems and factors that cause them

NEW! TH05

Thursday, January 25, 2018 • 8:00 am - 11:00 am

How the Concrete Delivery Ticket Can Help the Contractor & the Producer

Ken Hover, PhD, PE, Cornell University

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Receipt of specified mix ordered
2. Cumulative concrete volume, yield & adjustments
3. Water addition, slump-loss & setting-time
4. Extra fees, charges, producer notes & contractor responsibilities

CONCRETE PRODUCTION

MO06

Monday, January 22, 2018 • 8:00 am - 11:00 am

Effective Use of Chemical Admixtures to Achieve Better Concrete

Charles Nmai, PhD, PE, FACI, BASF Corporation - Admixture Systems

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Advanced knowledge of current admixture technologies & how they function
2. Admixtures used singularly & in combination to improve concrete construction
3. Issues and undesired effects in concrete
4. Efficiencies achieved through use of chemical admixtures

TU07

Tuesday, January 23, 2018 • 8:00 am - 11:00 am

Concrete Mix Design I: Evaluation of Mixtures

Ken Hover, PhD, PE, Cornell University

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Cement, water and aggregate interactions in concrete mix
2. Mix design, proportioning, submittal and evaluation process
3. Review for yield, expected strength and durability, shrinkage, workability and cost
4. Building code requirements and available quality-control testing

NOTE: Attendance at Mix Design II, WE08, recommended for maximum benefit from this seminar.

See Mix Design & Testing Lab **Hands-on Training:**
Tues - Thurs, 11:30 am - 3:00 pm & 1:30 pm - 5:00 pm

WE08

Wednesday, January 24, 2018 • 8:00 am - 11:00 am

Concrete Mix Design II: Adjusting with Aggregates and Admixtures

Ken Hover, PhD, PE, Cornell University

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Effects of concrete properties: aggregates, water reducers, superplasticizers, fly ash, microsilica and slag
2. Proper aggregate moisture corrections
3. Quality-control provision ACI 318 Building Code
4. Develop and analyze a trial mix

NOTE: Attendance at Mix Design I, TU07, recommended for maximum benefit from this seminar.

NEW! TH09

Thursday, January 25, 2018 • 8:00 am - 11:00 am

What is Wrong with My Concrete? Troubleshooting Concrete Quality

Tyler Ley, PhD, PE, FACI, Oklahoma State Univ.

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Variables contributing to concrete quality
2. Test methods & procedures for evaluating variables
3. Best practices in developing a mixture design
4. Different curing methods available

CONCRETE REPAIR

MO10

Monday, January 22, 2018 • 8:00 am - 11:00 am

Concrete Repair Fundamentals I: Surface Preparation, Reinforcement Repair, Material Selection & Placement

Peter Emmons, Structural Preservation Systems Inc.

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Specific repair materials and ingredients
2. Equipment handling, preparation, and placement of repair materials
3. Repair material compatibility to improve performance of repairs
4. Bonding agents and how to perform bonding and shoring plan tests

See TU11 - Concrete Repair Fundamentals II.

TU11

Tuesday, January 23, 2018 • 8:00 am - 11:00 am

Concrete Repair Fundamentals II: Waterproofing, General Protection & Corrosion Prevention

Peter Emmons, Structural Preservation Systems Inc.

Jorge Costa, PE, Structural Group Inc.

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Protecting concrete from effects of corrosive environments
2. Cathodic protection strategies to prevent embedded steel corrosion
3. Analyzing systems to protect against chemical environments
4. Stopping water leakage through cracks

See MO10 - Concrete Repair Fundamentals I.

NEW! WE12

Wednesday, January 24, 2018 • 8:00 am - 11:00 am

Working with Engineers & Design Professionals in Concrete Repair

Peter Emmons, Structural Preservation Systems Inc.

Tracy Marcotte, CVM Engineering

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Contractual relationships, roles & best team building practices
2. Appropriate & essential questions for engineer or designer
3. Design documents to facilitate job success
4. Best practices & strategies for concrete repair work

TH13

Thursday, January 25, 2018 • 8:00 am - 11:00 am

Troubleshooting Concrete Cracks: Understand and Minimize Cracking

Kim Basham, PhD, PE, FACI, KB Engineering LLC

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Structural cracks, mapping cracks and measuring cracks
2. Nonstructural cracks that occur before hardening
3. Nonstructural cracks after hardening
4. Minimization various types of cracks

See FR14 - Repairing Concrete Cracks.

FR14

Friday, January 26, 2018 • 8:00 am - 11:00 am

Repairing Concrete Cracks: Evaluation and Selection of Repair Methods

Kim Basham, PhD, PE, FACI, KB Engineering LLC

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Best repair procedure for active and dormant cracks
2. Repair techniques for routing and sealing cracks
3. Repair method options based on unique criteria from case studies
4. Stitching, grouting, drypacking, gravity filling, epoxy injection and surface treatments

See TH13 - Troubleshooting Concrete Cracks.

CONCRETE FLOORS & SLABS

NEW! MO15

Monday, January 22, 2018 • 8:00 am - 11:00 am

Extended Joint Systems for Slabs-on-Ground

Jerry Holland, PE, FACI, Structural Services Inc.

Bryan Birdwell, Structural Services Inc.

3.0 hours AIA/CES LU, PDH, TCA

1. Reasons slab extended joints are desirable
2. Various systems for extending slab joint spacings
3. Ways systems are similar or differ
4. Most appropriate systems & how to implement

NEW! MO16

Monday, January 22, 2018 • 1:00 pm - 4:00 pm

Concrete Shrinkage—Solutions to a Growing Problem

Scott Tarr, PE, FACI, CCMSTT, North S.Tarr Concrete Consulting

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Concrete shrinkage potential & its influence on floor slabs
2. Wide range concrete shrinkage between project locations
3. Ways to minimize shrinkage in concrete mixtures
4. Design solutions when low shrinkage concrete is unavailable

TU17

Tuesday, January 23, 2018 • 8:00 am - 11:00 am

Polishing Retail & Industrial Slabs—Design, Construction & Polisher Best Practices

Rick Smith, Structural Services Inc.

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Anatomy of concrete floor to be polished
2. Mix designs, construction practices & finishing techniques
3. Grinding, polishing & burnishing industrial concrete floors
4. Achieving gloss, protection, maintenance & rejuvenation

TH18

Thursday, January 25, 2018 • 8:00 am - 11:00 am

Unique Slab Design & Construction: Superflat + High Volume Fiber Floors & Pavements

Jerry Holland, PE, FACI, Structural Services Inc.

Bryan Birdwell, Structural Services Inc.

3.0 hours AIA/CES LU|HSW, PDH, TCA

1. Reinforcing, joint spacing, and placing/finishing equipment for superflat floors
2. Formwork and placing/finishing techniques to exceed specified Fmin numbers
3. High volumes of fiber that reduces shrinkage, curling, and cracking
4. Proper materials & concrete mix to ensure proper finishability

DECORATIVE CONCRETE

MO19

Monday, January 22, 2018 • 8:00 am - 11:00 am

Fundamentals of Polished Concrete—From the Ground Up

Bob Harris, Structural Services Inc.

3.0 hours AIA/CES LU, PDH, TCA

1. Differences within class A, B, C & D surfaces
2. Key characteristics and/or issues to look for prior to grinding
3. Various chemical densifiers & how they react with cured concrete
4. Diamond tooling used relative to surface hardness & specified profiles

NEW! TU20

Tuesday, January 23, 2018 • 8:00 am - 11:00 am

Troubleshooting Decorative Concrete I: Integral Color, Stamped Concrete & Overlays

Chris Sullivan, ChemSystems Inc

3.0 hours AIA/CES LU, PDH, TCA

1. Role of moisture & mix design in integral color
2. Causes for integral color & stamped concrete problems
3. Avoiding common overlay issues
4. Repair methods for decorative concrete applications

See Decorative Overlays **Live Demonstration:** WEDOD (Wed. 1:00 pm - 5:00 pm)

NEW! WE21

Wednesday, January 24, 2018 • 8:00 am - 11:00 am

Troubleshooting Decorative Concrete II: Stains, Dyes & Sealers

Chris Sullivan, ChemSystems Inc

3.0 hours AIA/CES LU, PDH, TCA

1. Concrete mix, surface profile & application methods using stains & dyes
2. Porosity, penetration & adhesion roles in applying stain, dyes & sealers
3. Causes of common sealer issues
4. Methods to repair decorative concrete applications

See Vertical Concrete **Live Demonstration:** THVCD (Thurs. 1:00 pm - 5:00 pm)

TH22

Thursday, January 25, 2018 • 8:00 am - 11:00 am

How to Succeed at Concrete Countertops

Jeff Girard, PE, The Concrete Countertop Institute

3.0 hours AIA/CES LU, PDH

1. Template, form, seal & install countertops
2. Precast mix design & reinforcing principles
3. Instructions for making precast concrete countertops
4. Price, market & sell concrete countertops

See Concrete Countertops **Live Demonstration:** WECCD (Wed. 12:30 pm - 4:30 pm)

FR23

Friday, January 26, 2018 • 8:00 am - 11:00 am

Acid Staining: Advanced Techniques for Flawless Horizontal and Vertical Applications

Federico Jasso, PE,

Servicios Proconsa, SA de CV

3.0 hours AIA/CES LU, PDH, TCA

1. Correctly apply acid stain in horizontal & vertical surfaces
2. Four most common ways to protect decorative concrete
3. Obtain and execute large stain projects
4. Transform architect's drawing into flooring with intricate designs

See Acid Staining **Live Demonstration:** THASD (Thurs. 1:00 pm - 5:00 pm)

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youtube.com/worldofconcreteshow

WOC MOBILE APP

Download the FREE mobile app for easy access to all the most current information on exhibitors, education, events and more. Everything you need to navigate World of Concrete, all in the palm of your hand. Available through all app stores in November. Features include:

Interactive Map.

Exhibitor Profiles/Products. Search, find and save favorites to maximize time on show site.

Show Information. Explore education schedules, speaker profiles, event listings, transportation information and more.

Your Calendar. Structure a productive plan for each day by scheduling seminars and making appointments with exhibitors in advance.

Show Alerts. Stay tuned for important show information as it happens with real-time updates.

Network & Share. Join your community's conversations about key topics through social media channels.



2018 MCAA CONVENTION SCHEDULE

Sunday, January 21

8:00 am - 4:00 pm Masonry Foreman Development Course, Day 1

Monday, January 22

8:00 am - 4:00 pm Masonry Foreman Development Course, Day 2

Tuesday, January 23

8:00 am - 11:00 am MCAA Committee Meetings
9:00 am - 3:00 pm Silica Train-the-Trainer Course
9:30 am - 5:00 pm Masonry Innovations & Workforce Development Zone—Bronze Lot
6:00 pm - 7:30 pm South of 40 Event at Señor Frogs

Wednesday, January 24

9:00 am - 3:00 pm MASONRY MADNESS™
9:00 am - 12:00 pm MCAA's Masonry Skills Challenge
9:30 am - 5:00 pm Masonry Innovations & Workforce Development Zone—Bronze Lot
10:45 am - 11:30 am SPEC MIX TOUGHEST TENDER®
11:30 am - 12:00 pm MCAA's Fastest Trowel on the Block
12:00 pm - 3:00 pm SPEC MIX BRICKLAYER 500®

Thursday, January 25

8:00 am - 9:30 am MCAA Annual Meeting
9:00 am - 12:00 pm Masonry Wall Bracing Seminar
9:30 am - 5:00 pm Masonry Innovations & Workforce Development Zone—Bronze Lot
10:00 am - 12:00 pm Networking Roundtables
6:00 pm - 9:00 pm Closing Dinner at Fogo de Chão

Visit the MCAA at Booth N1413 or stop by the MCAA Tent in the Bronze Lot, next to South Hall, during MASONRY MADNESS™ on Wednesday, January 24, 2018.

Schedule subject to change.

Visit www.masoncontractors.org/convention for the most up-to-date information.

WORLD OF CONCRETE OFFICIAL MERCHANDISE

Grand Concourse between North and Central Halls

Find something special for every member of your crew and family! WOCGEAR features everything from WOC apparel and books to one-of-a-kind commemorative pieces and unique items made from concrete.

Monday, January 22 - Thursday, January 25 7:00 am - 5:00 pm

Friday, January 26 7:00 am - 12:00 pm

REGISTER TODAY >>> www.worldofconcrete.com

EDUCATION IS YOUR FOUNDATION

INVEST IN KNOWLEDGE, REAP THE REWARDS

48

WOC 90-Minute Seminars

9 designated tracks

32 NEW topics

Master Certificate Savings

See pages 16-19 for details

8

WOC 4-Hour Certification Seminars

ACI, ACPA, CFA, ICRI & TCA

11 corresponding exams

See page 12 for details

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Industry Training Courses

Presented by 31 industry-specific organizations

For detailed information see "Industry Training" link of the Education page at www.worldofconcrete.com

See page 11, Program-at-a-Glance

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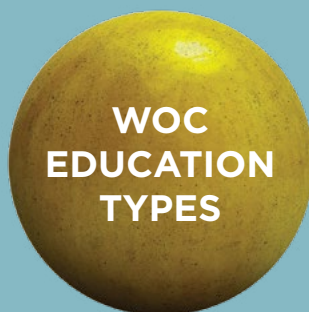
WOC 3-Hour Seminars

6 designated tracks

10 NEW topics

Master Certificate Savings

See pages 13-15 for details



11

Interactive Workshops

Decorative Technical Demos

See page 14 for details

Construction Boot Camps

See page 16 for details

Train-the-Trainer Courses

See page 19 for details

16

Hands-On Training Sessions

Mix-Design & Testing Labs

Place & Finish Floors

Stamped Concrete

NEW! Concrete Stenciling

Surveying with Total Stations

See page 12 for details

WOC EDUCATION PROGRAM PRICING:

3-Hour Seminars: \$145; \$175 after 12/4/17 and onsite

4-Hour Seminars: \$190; \$225 after 12/4/17 and onsite

90-Minute Seminars: \$105; \$135 after 12/4/17 and onsite

STUDENTS AND MILITARY*:

Register Online with special discounts on 90-Minute and 3-Hour seminars, plus complimentary Exhibits-Only admission (\$90 value) with seminar purchase.

**Application required to verify eligibility.*

For a full listing of over 180 education offerings including dates/times, fees and detailed descriptions, visit www.worldofconcrete.com; select "Sessions" link on the Education page. Search by type, track or keyword.

For questions regarding the WOC Education Program, contact WOC Education Staff at seminars@worldofconcrete.com

Master Certificates

12-Hour Master Certificate

SUPER PASSES save as much as 30%

SUPER PASS 1 – three 3-hour seminars from one track plus two 90-minute seminars

\$425; \$550 after 12/4/17

SUPER PASS 2 – three 3-hour seminars from one track plus one additional 3-hour seminar from any 3-hour track

\$425; \$550 after 12/4/17

SUPER PASS 3 – total of 12 seminar hours in combination from any 3-hour or 90-minute track

\$525; \$650 after 12/4/17

Note: Master Certificate SUPER PASS discounted packages include FREE Exhibits-Only admission; packages exclude Workshops, Hands-On Training, and 4-Hour Certification Seminars/Exams.



Continuing Education & Certificates

Look for acronyms below in seminar descriptions for continuing education approvals:

- **AIA/CES:** American Institute of Architects Continuing Education Systems (Provider No. 40107926)
- **PDH:** Professional Development Hours
- **MCAA:** Mason Contractors Association of America
- **TCA:** Tilt-Up Technician & Supervisor Recertification

Individual Certificates of Completion are available online 7-8 weeks post-show.



4-HOUR CERTIFICATION SEMINARS & EXAMS



For details and association contact information, view “**Certifications & Exams**” on the **Education** page of worldofconcrete.com website.

4-Hour Review Seminar Fees: \$190; \$225 after 12/4/17.

ACI Adhesive Anchor Installation Inspector

MO401 4-Hour Review Seminar

Monday, January 22 • 8:00 am – 12:00 pm

TUAIW 2-Hour Written Exam

Tuesday, January 23 • 8:00 am – 10:30 am

Written Exam Fee: **\$375****

NEW! Pervious Concrete Installer

MO402 4-Hour Review Seminar**

Monday, January 22 • 8:00 am – 12:00 pm

TUPCW 2-Hour Written Exam

Tuesday, January 23 • 3:00 pm – 5:00 pm

Written Exam Fee: **\$165**

ACPA Pump Operator Safety Training

TU403 4-Hour Review Seminar

Tuesday, January 23 • 8:00 am – 12:00 pm

TUCPE 2-Hour Written Exam

Tuesday, January 23 • 1:00 pm – 3:00 pm

Written Exam Fee: **\$290****

ACI Concrete Field Testing Technician - Grade I

TU404 4-Hour Review Seminar

Tuesday, January 23 • 1:00 pm – 5:00 pm

WEFTW 1-Hour Written Exam

Wednesday, January 24 • 3:30 pm – 5:00 pm

Written Exam Fee: **\$205**

THFTP 2-Hour Performance Exam

Thursday, January 25 • 9:00 am – 1:00 pm

(select preferred two-hour time slot)

Performance Exam Fee: **\$360****

ICRI Concrete Slab Moisture Testing

WE405 4-Hour Review Seminar

Wednesday, January 24 • 8:00 am – 12:00 pm

WECRT Tier 1 Written Exam

Wednesday, January 24 • 2:00 pm – 3:00 pm

Written Exam Fee: **\$275****; \$300 after 12/4/17

THRPE Tier 2 Performance Exam†

Thursday, January 25 • 12:00 pm – 5:00 pm

(select preferred one-hour time slot)

Performance Exam Fee: **\$410**;

\$450 after 12/4/17

WERCE 1-Hour Recertification Exam†

Wednesday, January 24 • 2:00 pm – 3:00 pm

Recertification Exam Fee: **\$425****;

\$485 after 12/4/17

† PREAPPROVAL FROM ICRI REQUIRED.

ACI Concrete Flatwork Finisher/Technician

WE406 4-Hour Review Seminar

Wednesday, January 24 • 8:00 am – 12:00 pm

THCFF 2-Hour Written Exam

Thursday, January 25 • 1:00 pm – 3:00 pm

Written Exam Fee: **\$325****

ACI/CFA Residential Foundation Technician

TH407 4-Hour Review Seminar

Thursday, January 25 • 8:00 am – 12:00 pm

THCFA 2.5-Hour Written Exam

Thursday, January 25 • 3:00 pm – 5:30 pm

Written Exam Fee: **\$405****

NOTE: 90-Minute Seminars TU134 and WE135 recommended for CFA examinees.

ACI/TCA Tilt-Up Technician/Supervisor

TH408 4-Hour Review Seminar

Thursday, January 25 • 12:00 pm – 4:00 pm

THTUS 2-Hour Written Exam

Thursday, January 25 • 4:00 pm – 6:00 pm

Written Exam Fee: **\$440****

**Fee includes exam study guide.

NOTE: All WOC 4-Hour Certification Seminars are approved for 4.0 continuing education hours.



HANDS-ON TRAINING OPPORTUNITIES

Practice techniques, demonstrate skills, and produce sample concrete projects under the direction of industry professionals.

INTRO TO MIX DESIGN & TESTING LABS

[TUMD1-2][WEMD1-2] [THMD1-2]

Choose from 6 time slots to experience a laboratory setting working with mix design, quality control & fresh concrete properties

Tues–Thurs, 11 am–3 pm or 1:30 pm–5 pm

\$375; \$465 after 12/4/17

PLACE & FINISH FLOORS

[WEPTD1] [THPTD1] [THPTD2]

Choose from 3 time slots to place, screed, bull float and power trowel a concrete floor slab

Wed, 1 pm–5 pm; Thurs, 8 am–12 pm or 1 pm–5 pm

\$450; \$525 after 12/4/17

STAMPED CONCRETE

[TUSC1] [WESC1] [THSC1]

Choose from 3 time slots to place and stamp a driveway with curved sidewalk

Tues, 1 pm–5 pm; Wed–Thurs, 8 am–12 pm

\$450; \$525 after 12/4/17

NEW! CONCRETE STENCILING

[TUCS1] [WECs1]

Choose from 2 time slots to apply stencils and create decorative concrete floor designs

Tues, 1 pm–5 pm; Wed–Thurs, 8 am–12 pm

\$375; \$465 after 12/4/17

SURVEYING with Total Stations

[TUSTS1] [WESTS1]

Demonstrations and hands-on set up, calibrations & troubleshooting

Basics for Beginners—Tues, 8 am–12 pm

Advanced Surveying—Wed, 8 am–12 pm

\$350; \$440 after 12/4/17

For detailed descriptions and continuing education approvals, go to www.worldofconcrete.com, click on **Hands-On Training** on the **Education** page.



DECORATIVE TECHNICAL DEMONSTRATIONS

Four Decorative Technical Interactive WORKSHOPS & LIVE DEMONSTRATIONS

Take what you've learned in the classroom and watch decorative concrete industry experts in action as they demonstrate multiple trending decorative concrete applications.

Workshop/Demonstration Fee: \$315;
\$365 after 12/4/17

WECCD Concrete Countertops

Wednesday, January 24 • 12:30 pm – 4:30 pm
Jeff Girard

WEDOD Decorative Overlays

Wednesday, January 24 • 1:00 pm – 5:00 pm
Brian Farnsworth, Chris Sullivan,
Chris Becker

THASD Acid Stain Applications

Thursday, January 25 • 1:00 pm – 5:00 pm
Federico Jasso, Mauricio Zambrano

NEW! THVCD Vertical Concrete

Thursday, January 25 • 1:00 pm – 5:00 pm
Brian Farnsworth, Chris Sullivan,
Troy Lemon

For detailed descriptions and continuing education approvals, go to www.worldofconcrete.com, click on **Interactive Workshops & Live Demonstrations** on the **Education** page.

BUSINESS & PROJECT MANAGEMENT

NEW! MO24

Monday, January 22, 2018 • 8:00 am - 11:00 am
**Tactical LEAN Tools: Maximizing
Your Company Culture**

Karl Wadensten, VIBCO, Inc.

3.0 hours AIA/CES LU, PDH, MCAA, TCA

1. Tactical LEAN tools
2. System thinking versus process thinking
3. Identify strengths of an organization
4. Industrial Internet of Things (IIoT)

NEW! MO25

Monday, January 22, 2018 • 1:00 pm - 4:00 pm
**Estimating for Success: Are
Your Numbers In the Ballpark
or Outside the Stadium?**

Dennis Dixon, Dixon Builders

3.0 hours AIA/CES LU, PDH, MCAA, TCA

1. Great estimates to edit & adjust specifications
2. Cost categories and assemblies for estimates
3. Estimating tips, shortcuts & cost verifications
4. Allowances, change orders and pre-priced options

TU26

Tuesday January 23, 2018 • 8:00 am - 11:00 am
**Increasing Jobsite Productivity—A
Fifteen-Point Program**

Jim Adrian, PhD, PE, CPA, Adrian International LLC

Kristy Wolfe, Bradley University

3.0 hours AIA/CES LU, PDH, MCAA, TCA

1. Correction of small productivity defects that impact project time and cost
2. New techniques using best practices, productivity variation and defect analysis
3. Implementation of MORE, Six Sigma and LEAN
4. Acquire a new quantitative technique using MPDM
5. Prioritization of supervision time and actions

WE27

Wednesday, January 24, 2018 • 8:00 am - 11:00 am
**How to Establish Teamwork
on Every Crew & Job**

Jeff Stokes, Next Level Contractor System

3.0 hours AIA/CES LU, PDH, MCAA, TCA

1. Why "teamwork" is important to today's workers and jobs
2. What is needed to build and motivate a team environment
3. Personal skills to lead in a team-based environment
4. Next steps for your crew and project to become a team

See FR29 - Leadership Skills for Construction Contractors.

TH28

Thursday, January 25, 2018 • 8:00 am - 11:00 am
**Creating, Managing & Utilizing
a Construction Schedule**

Kristy Wolfe, Bradley University

Rocky Geans, Rocky Geans LLC

3.0 hours AIA/CES LU, PDH, MCAA, TCA

1. Create and define Critical Path Method (CPM)
2. CPM correlation to a Gantt Chart
3. Communication between general contractor and subcontractor
4. Schedule impact on quality and safety

NEW! FR29

Friday, January 26, 2018 • 8:00 am - 11:00 am
**Leadership Skills for
Construction Contractors**

Jeff Stokes, Next Level Contractor System

3.0 hours AIA/CES LU, PDH, MCAA, TCA

1. Leadership beyond management skills
2. Evaluate personal leadership style
3. Leadership skills in daily routines
4. Build an improvement plan



90-MINUTE SEMINARS

BUSINESS FINANCE & MONEY MATTERS

NEW! TU101

Tuesday, January 23, 2018 • 8:30 am - 10:00 am

Making Money with Change Orders & Allowances

Dennis Dixon, Dixon Builders

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Change orders and allowance policies & procedures
2. Payment for requested changes
3. Preparation of calculated allowances
4. Change order & allowance examples

TH102

Thursday, January 25, 2018 • 8:30 am - 10:00 am

Numbers Contractors Must Know & Track to Make a Profit

George Hedley, CSP, LPBC,

Hardhat Presentations

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Numbers needed to manage your company and make a profit
2. Pricing for job cost, equipment, labor, overhead, mark-up, and profit
3. Implementation of a scorecard tracking system
4. Progress and profits, accurate job costs and money management

NEW! TH103

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

Growing Your Business Without Growing Out of Business: Steps & Margins

Leslie Shiner, MBA, The Shiner Group

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Theory behind the growth plateau
2. 5 stages of small business growth
3. Breakeven analysis to manage growth
4. How to break through growth barriers

FR104

Friday, January 26, 2018 • 8:30 am - 10:00 am

Better Job Costing and Labor Controls to Increase Profits

Leslie Shiner, MBA, The Shiner Group

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Costs included in a fully burdened labor rate
2. Direct job costs hiding in your overhead costs
3. Utilize job costs to determine your billing rates
4. Avoid pitfall where growth in volume causes reduction of profits

BUSINESS LEADERSHIP & MANAGEMENT

MO105

Monday, January 22, 2018 • 8:30 am - 10:00 am

Leadership & Management: Be Successful by Knowing the Difference

Wally Adamchik, CSP, CMC, FireStarter Speaking and Consulting

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Differences between leading and managing
2. Choose the right technique when given a choice
3. Combine leadership and management to be more successful
4. Develop a more effective leadership style

See MO111 - NO YELLING! 9 Secrets of Leadership.

MO106

Monday, January 22, 2018 • 3:30 pm - 5:00 pm

Embracing Accountability to Increase Productivity

Randy Anderson, CSP, E3 Professional Trainers LLC

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Poor performance and patterns of unmet expectations
2. Drawing conclusions about expectations and performance
3. Break cycle of frustration
4. Mutual accountability and upstream accountability

NEW! TU107

Tuesday, January 23, 2018 • 8:30 am - 10:00 am

The 25 Hour Day—Time Management & Time Budgeting Strategies

Randy Anderson, CSP, E3 Professional Trainers LLC

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Organization for efficiency & saving time
2. Allocate time proactively
3. Areas that should be systemized or delegated
4. Strategies to overcome productivity loss

NEW! WE108

Wednesday, January 24, 2018 • 1:30 pm - 3:00 pm

How the Millennial Generation is Changing the Workplace

Jeff Stokes, Next Level Contractor System

Kristy Wolfe, Bradley University

Rocky Geans, Rocky Geans LLC

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Differences in work habits & values of each generation
2. Effectively manage & lead Millennials
3. Practical ways to keep Millennials engaged
4. Integration of Millennial workforce

NEW! TH109

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

Accidental Boss: Great Leaders Must Effectively Wear Multiple Hats to be Successful

Brian Gareau, Brian Gareau, Inc.

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Leader's role & impact on workforce
2. Four influencers of leader's actions & decisions
3. Employee engagement and increased performance
4. Basics of a successful leader

NEW! FR110

Friday, January 26, 2018 • 8:30 am - 10:00 am

Simple and Easy Techniques for Improving Communication in Your Organization

Brian Gareau, Brian Gareau, Inc.

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Minimize communication barriers
2. Key steps to effective communication
3. Change communication activities and employee behaviors
4. Apply practical communication techniques

GENERAL BUSINESS

MO111

Monday, January 22, 2018 • 10:30 am - 12:00 pm

NO YELLING! 9 Secrets of Leadership You Must Know to Win in Business

Wally Adamchik, CSP, CMC, FireStarter Speaking and Consulting

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Successfully lead people in a challenging labor market
2. Elements of the business success triangle
3. Engage employees and crew members for maximum productivity
4. Strategies to reduce turnover and increase onsite production

See MO105 - Leadership & Management.

MO112

Monday, January 22, 2018 • 1:30 pm - 3:00 pm

Sales 101: The Essential Elements of Sales Effectiveness

Randy Anderson, CSP, E3 Professional Trainers LLC

1.5 hours AIA/CES LU, PDH, MCAA

1. Engage customers and accurately target your approach
2. Break through boundaries
3. Establish a Unique Value Proposition
4. Difference between selling cost and selling value

INTERACTIVE BOOT CAMPS FOR INDUSTRY LEADERS

Three One-Day Construction BOOT CAMPS

Addressing business and project management challenges, World of Concrete offers all-day workshops tailored for management-level professionals.

Fee per Boot Camp: \$395; \$495 after 12/4/17

MOLBC Boot Camp for Field Leaders—Four Corners of Field Leadership Excellence

Monday, January 22 • 8:00 am - 5:00 pm

TULBC Boot Camp for Field Executives—Becoming a Strategic Thinker & Planner

Tuesday, January 23 • 8:00 am - 5:00 pm

NOTE: Purchase BOTH MOLBC & TULBC and save \$95; save \$105 if register after 12/4/17

NEW! TUEBC Boot Camp for Concrete Estimators: Strategies & Risk Management Techniques

Tuesday, January 23 • 8:00 am - 5:00 pm

For detailed descriptions and continuing education approvals, go to www.worldofconcrete.com, click on **Interactive Workshops & Live Demonstrations** on the **Education** page.

NEW! TU113

Tuesday, January 23, 2018 • 1:30 pm - 3:00 pm

Manage Project Changes Effectively Using BIM

Mitch Kittel, Ryan Companies

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Schedule Integration or 4D modeling
2. Manage owner expectations
3. Virtual pour, phasing and sequence
4. Operations and collaborated staging with site logistics

WE114

Wednesday, January 24, 2018 • 8:30 am - 10:00 am

Find, Hire, Train & Retain Self-Motivated Workers

Brad Humphrey, Pinnacle Development Group

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Look in "all the right places" to find your future workforce
2. Skills and tools for securing right workers the first time
3. Techniques to keep workers working longer
4. "Fire, hire & retain" template to suit your construction company

NEW! WE115

Wednesday, January 24, 2018 • 1:30 pm - 3:00 pm

How to Get More Life From Your Dead Meetings

Brad Humphrey, Pinnacle Development Group

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Five techniques to make meetings more organized
2. Bring quiet members alive & calm the "chatty Cathies"
3. Four tools that will bring greater solutions & ideas
4. "Pre and post" meeting disciplines

NEW! TH116

Thursday, January 25, 2018 • 8:30 am - 10:00 am

Build a Company Differentiation to Increase Sales & Profits

Jeff Stokes, Next Level Contractor System

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Company differentiation importance in the buying process
2. List and assess your company differentiation
3. Core competencies of differentiation for your company
4. Processes and systems of differentiation to incorporate

NEW! FR117

Friday, January 26, 2018 • 8:30 am - 10:00 am

Path of a Concrete Construction Project from Estimate to Closeout

Rocky Geans, Rocky Geans LLC

Tommy Ruttura, Ruttura & Sons Construction Co. Inc.

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Analyze which jobs fit within your business niche
2. Pitfalls in contracts, party advantages, plans & specifications
3. Formulate an execution plan
4. How to measure estimated costs & productivity

CONCRETE 101

MO118

Monday, January 22, 2018 • 3:30 pm - 5:00 pm

Cold Weather: Managing Concrete in Winter Conditions

Kim Basham, PhD, PE, FACI, KB Engineering LLC

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Cold weather conditions affecting fresh & hardened concrete properties
2. Mix design adjustments to minimize problems
3. Delayed setting, concrete hardening, finishability & strength gain
4. Cold weather placement plan to avoid problems & costly repairs

See TU119 - Hot Weather: Dealing with Concrete in Hot, Dry & Windy Conditions.

TU119

Tuesday, January 23, 2018 • 8:30 am - 10:00 am

Hot Weather: Dealing with Concrete in Hot, Dry & Windy Conditions

Kim Basham, PhD, PE, FACI, KB Engineering LLC

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Hot weather conditions affecting workability, setting, finishability, strength, and cracking
2. Mix designs & ordering concrete to minimize problems
3. Minimize problems from slump loss to rain showers
4. Hot weather placement plan to avoid problems and costly repairs

See MO118 - Managing Concrete in Winter Conditions.

TU120

Tuesday, January 23, 2018 • 1:30 pm - 3:00 pm

Introduction to Placing and Finishing Concrete: Best Practices

Jeff Groom, PE, GHD Inc.

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Basic finishing steps to install a steel-troweled floor
2. When and how to use finishing tools including the "bump cutter"
3. How to read the concrete
4. Use of walk-behind power trowel

See How to Place & Finish Floors **Hands-On Training:** Wed, 1:00 pm - 5:00 pm; Thurs, 8:00 am - 12:00 pm & 1:00 pm - 5:00 pm

NEW! WE121

Wednesday, January 24, 2018 • 8:30 am - 10:00 am

Introduction to Stamped Concrete: Best Practices

Todd Scharich, Decorative Concrete Resources

1.5 hours AIA/CES LU, PDH, TCA

1. Texture & pattern a fresh poured concrete slab
2. Clean & detail a slab with a long surface lifespan
3. Installation methods to fit project size, scope & budget
4. Adverse weather conditions & procedures for avoiding most common issues

See Stamped Concrete **Hands-On Training:** Tues, 1:00 pm - 5:00 pm; Wed & Thurs, 8:00 am - 12:00 pm

NEW! WE122

Wednesday, January 24, 2018 • 1:30 pm - 3:00 pm

Introduction to Creating Successful Acid Staining Projects

Federico Jasso, PE, Servicios Proconsa, SA de CV

1.5 hours AIA/CES LU, PDH, TCA

1. Basic concepts for a successful acid stain business
2. Acid stain system vs. other materials and coloring techniques
3. Products, tools and proper techniques for floor application
4. Protection systems for long lasting stone design

See Acid Staining **Live Demonstration:** THASD (Thursday, 1:00 pm - 5:00 pm)

NEW! TH123

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

Curing Concrete: Why We Do it and Why We Care

Tyler Ley, PhD, PE, FACI, Oklahoma State Univ.

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Importance of curing & impact of not curing properly
2. Impact of curing between setting & opening to traffic
3. Curing plans for different exposure conditions
4. Effect of poor curing practices on concrete quality

ENGINEERING

NEW! TU124

Tuesday, January 23, 2018 • 1:30 pm - 3:00 pm

Understanding & Using ACI 562-16 Concrete Repair Code for Practicing Professionals

John Lund, PE, Martin/Martin Inc.

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Assessing existing damaged structures
2. Unsafe structures identified using ACI 562 and IEBC Codes
3. Responsibilities of licensed design professionals, owners and contractors
4. Design basis reports for concrete repair projects

WE125

Wednesday, January 24, 2018 • 8:30 am - 10:00 am

Masonry Engineering 101: Designing Reinforced Masonry

Michael Schuller, PE, Atkinson-Noland & Associates Inc.

1.5 hours AIA/CES LU|HSW, PDH, MCAA

1. Materials including brick, block, mortar, and grout
2. Code sections that apply to masonry design and construction
3. Masonry flexural members following strength design approach of TMS 402
4. Capacity of reinforced masonry members

WE126

Wednesday, January 24, 2018 • 8:30 am - 10:00 am

Reinforcing Steel Bar: Jobsite Issues & Inspection

Jose Mendoza, PE, M.ASCE, Concrete Reinforcing Steel Institute

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Rebar specification for different seismic design categories
2. FAQ's on field inspection regarding rebar
3. Advantages and inherent characteristics of reinforced concrete structures
4. Identify different rebar markings on the field

Presented by the Concrete Reinforcing Steel Institute.

NEW! TH127

Thursday, January 25, 2018 • 8:30 am - 10:00 am

Understanding the Fundamentals of Reinforced Concrete Corrosion

Brent Anderson, PE, BDA Associates LLC

1.5 hours AIA/CES LU|HSW, PDH, MCAA, TCA

1. Fundamental absorption/expiration properties of concrete
2. Temperature, humidity, sunlight & tidal activity affecting water movement
3. Oxygen, water & semi-permeable materials
4. Increased cover, stainless steel bar, paints, sealers & coatings

TH128

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

Design & Construction of Slabs-on-Ground + Slabs on Metal Deck—Avoid Common Problems

Jerry Holland, PE, F.ACI, Structural Services Inc.

Rick Smith, Structural Services Inc.

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. How slabs are supposed to work versus how they actually work
2. Simple design procedures for contractors to check bad designs
3. Common problems in design and construction of systems
4. Proper solutions to avoid problems

MASONRY

NEW! TU129

Tuesday, January 23, 2018 • 8:30 am - 10:00 am

Masonry Cracks Prevention: Causes, Design Practices & Repair Methods

Michael Schuller, PE, Atkinson-Noland & Associates Inc.

1.5 hours AIA/CES LU|HSW, PDH, MCAA

1. Types of cracks found in masonry walls
2. Brick masonry expansion, concrete block shrinkage & movement joints
3. Monitoring masonry cracks to determine if active or dormant
4. Common crack repair methods & when to use

NEW! TU130

Tuesday, January 23, 2018 • 1:30 pm - 3:00 pm

Solving Moisture Problems in Masonry Walls

Rashod Johnson, PE, The Roderick Group Inc.

1.5 hours AIA/CES LU|HSW, PDH, MCAA

1. Conditions that lead to leaky masonry walls
2. Evaluating moisture penetration resistance of masonry walls
3. Masonry water repellents & sealers & when to use
4. Details contributing to water problems

TH131

Thursday, January 25, 2018 • 8:30 am - 10:00 am

Preventing & Handling Efflorescence in Masonry

Michael Schuller, PE, Atkinson-Noland & Associates Inc.

1.5 hours AIA/CES LU|HSW, PDH, MCAA

1. Efflorescence, its source and cause
2. Different types and sources of efflorescence
3. Cleaning procedures to remove efflorescence
4. Jobsite practices to reduce or eliminate efflorescence

NEW! TH132

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

Mortar & Grout Best Practices: Materials, Processes & Inspections

Nicholas Lang, National Concrete Masonry Association

1.5 hours AIA/CES LU|HSW, PDH, MCAA

1. Mortar and grout of materials standards and specifications
2. Impact on performance of masonry assemblies
3. Testing and inspection procedures
4. Code requirements and best practices

Presented by the National Concrete Masonry Association.

RESIDENTIAL CONSTRUCTION

NEW! MO133

Monday, January 22, 2018 • 1:30 pm - 3:00 pm

Precast in Residential Construction—Enhancing Speed & Quality

Claude Goguen, PE, LEED AP, National Precast Concrete Association

1.5 hours AIA/CES LU|HSW, PDH

1. Structural & decorative precast elements for home construction
2. Precast concrete home construction in disaster prone areas
3. Benefits of precast wall systems
4. Precast structures and efficiency on future projects

Presented by the National Precast Concrete Association.

NEW! TU134

Tuesday, January 23, 2018 • 1:30 pm - 3:00 pm

Residential, ICF & Light Commercial Construction: Critical Waterproofing

Brent Anderson, PE, BDA Associates LLC

1.5 hours AIA/CES LU|HSW, PDH, MCAA, TCA

1. Building code requirements for drainage & waterproofing
2. Reasons associated with drain pipe location & drainage efficiency
3. Waterproofing & drainage materials & techniques used in basement construction
4. Bracing walls options during backfilling

NEW! WE135

Wednesday, January 24, 2018 • 8:30 am - 10:00 am

Mastering Residential Winter Concrete Conditions

Shawn Hickey, CCS, GSC,

Site Cast Construction, Corp.

1.5 hours AIA/CES LU|HSW, PDH, MCAA, TCA

1. Winter conditions and how to mitigate adverse effects
2. Characteristics of concrete, admixture selections testing procedures
3. Temperature-related situations, i.e. when concrete & workers &/or equipment freezes
4. Strategies for heating and sheltering options

TH136

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

Residential Flatwork: Preplanning and Avoiding Conflict

Rocky Geans, Rocky Geans LLC.

1.5 hours AIA/CES LU|HSW, PDH

1. Proactive information/knowledge for root cause analysis
2. How to ask needed questions with confidence
3. Specifications and mix designs based on weather/environment and proposed use
4. Stop callbacks on finishes, joints, and functionality of slab

SAFETY & RISK MANAGEMENT

NEW! MO137

Monday, January 22, 2018 • 8:30 am - 10:00 am

Building & Harnessing the Power of an Elite Safety Culture

Carl Uhinck, Kokosing Construction

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Elite safety culture elements
2. Current safety culture and condition
3. Requirements of leadership to drive behaviors and build culture
4. Root of elite safety cultures

NEW! TU138

Tuesday, January 23, 2018 • 1:30 pm - 3:00 pm

Safety and OSHA Violations: The Good, The Bad & The Ugly

Matt Murphy, SEE Inc.

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. OSHA violation examples
2. How to research, review and understand OSHA violations
3. Abatement of OSHA violations
4. Commonly overlooked OSHA standards

NEW! WE139

Wednesday, January 24, 2018 • 1:30 pm - 3:00 pm

Incident Investigations: Determining the Cause

Daniel Fittanto, PE, Exponent

Jeff Travis, PE, SE, Exponent

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. Steps involved in a thorough investigation
2. Components of a good inspection kit
3. Scene inspection techniques and equipment
4. Analyzing data best practices and presenting results

NEW! TH140

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

OSHA Silica Regulations: Impact & Best Practices

Eric Hollister, Hilti

1.5 hours AIA/CES LU, PDH, MCAA, TCA

1. OSHA Silica Standard & recent changes
2. Requirements for compliance
3. Impact on concrete/masonry organizations
4. Best practices for implementation of control plans

TRAIN-THE-TRAINER WORKSHOPS FOR INDUSTRY LEADERS

Courses that meet state and federal safety requirements:

Presented by Overton Safety Training.

MOCFT Construction Forklifts

Monday, January 22 • 8:00 am - 12:00 pm

Fee: **\$645**; \$745 after 12/4/17

MOASL Aerial and Scissor Lifts

Monday, January 22 • 1:00 pm - 5:00 pm

Fee: **\$645**; \$745 after 12/4/17

TUFPT Fall Protection

Tuesday, January 23 • 8:00 am - 12:00 pm

Fee: **\$845**; \$945 after 12/4/17

NEW! TUCLT Construction Loaders

Tuesday, January 23 • 1:00 pm - 5:00 pm

Fee: **\$845**; \$945 after 12/4/17

Participants will receive a Trainer's Kit containing Trainer's Manual, PowerPoint slides and script, practice quizzes with grading keys, practical evaluation forms and student workbooks.

For detailed descriptions and continuing education approvals, go to www.worldofconcrete.com, click on **Interactive Workshops & Live Demonstrations** on the **Education** page.



TECHNICAL UPDATES

NEW! MO141

Monday, January 22, 2018 • 10:30 am - 12:00 pm

Managing Expectations—Key to Concrete Polishing Success

Chad Gill, Concrete Inc.

Ryan Lakebrink, Lakebrink's Custom Concrete

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Pre-construction meetings & pre-pour checklist
2. Testing methods & devices to predict outcome of concrete polishing
3. Faulty specifications leading to unmet expectations
4. General contractor & concrete contractor collaborations

Presented by the American Society of Concrete Contractors.

NEW! MO142

Monday, January 22, 2018 • 1:30 pm - 3:00 pm

Addressing Common Problems During & After Concrete Placement

Michelle Wilson, FACI, Portland

Cement Association

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Common problems in controlling fresh concrete properties
2. Issues concerning low strength results
3. Concrete surface defects and possible sources
4. Practical solutions for correcting existing problems

Presented by the Portland Cement Association.

NEW! MO143

Monday, January 22, 2018 • 3:30 pm - 5:00 pm

Extending Joint Spacing in Slabs- on-Ground: The Options

Charles Nmai, PhD, PE, FACI, BASF Corporation-
Admixture Systems

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Effects of concreting materials & construction practices on cracking
2. Current industry recommendations for joint spacing
3. Options for extending joint spacing
4. Efficiencies achieved through use of low-shrinkage fiber-reinforced concretes

NEW! TU144

Tuesday, January 23, 2018 • 1:30 pm - 3:00 pm

Moisture-Related Flooring Failures: Unlocking the Science for Understanding & Avoiding Problems

Peter Craig, FACI, FICRI, CCSMTT,
Concrete Constructives

Scott Tarr, PE, FACI, CCSMTT, North S.Tarr
Concrete Consulting

1.5 hours AIA/CES LU|HSW, PDH, TCA

1. Origin of moisture that can lead to a flooring problem
2. Moisture migration within & below a concrete floor slab
3. Testing evaluation of a concrete sub-floor
4. Mitigation of an unacceptable slab moisture condition

NEW! WE145

Wednesday, January 24, 2018 • 8:30 am - 10:00 am

Understanding Mass Concrete Placements: What Contractors MUST Know

Kim Basham, PhD, PE, KB Engineering LLC

1.5 hours AIA/CES LU|HSW, PDH

1. Concerns & issues associated with mass concrete placements
2. Thermal control plan
3. Maximum concrete core temperatures using rules of thumb and field tests
4. Temperature monitoring and control plan

NEW! WE146

Wednesday, January 24, 2018 • 1:30 pm - 3:00 pm

Best Practices of Pavement Rehabilitation with Rapid Strength Concrete

David Rothstein, PhD, PG, FACI

DRP, A Twining Company

1.5 hours AIA/CES LU|HSW, PDH

1. Strategies for pavement rehab with rapid strength concrete (RSC)
2. Methods of accelerating strength gain & principles of proportioning
3. Best RSC production & construction practices
4. Testing methods suitable for RSC

NEW! TH147

Thursday, January 25, 2018 • 8:30 am - 10:00 am

Advanced Shotcrete: Innovative Techniques for Architectural & Structural Projects

Frank Townsend, Superior Gunite

Marcus von der Hofen, Coastal Gunite
Construction Company

1.5 hours AIA/CES LU|HSW, PDH

1. Reinforced, thick monolithic concrete sections with multiple layers
2. How shotcrete provides enhanced bond
3. Shotcreting overhead applications
4. Materials, placing & finishing of architectural shotcrete

Presented by the American Shotcrete Association.

TH148

Thursday, January 25, 2018 • 1:30 pm - 3:00 pm

Reshoring—Conditions, Loads, Capacity & Calculations

Rodney Adams, PE, Baker Concrete Construction

1.5 hours AIA/CES LU|HSW, PDH

1. Reshoring terminology and assumptions
2. Reshoring calculations
3. Advanced reshoring conditions and characteristics
4. Potential reshoring 'red flags'

QUESTIONS

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2018 SHOW SCHEDULE

2018 WOC EXHIBIT HALL HOURS

Tuesday, Jan. 23 9:30 am – 5:00 pm

Wednesday, Jan. 24 9:30 am – 5:00 pm

Thursday, Jan. 25 9:30 am – 5:00 pm

Friday, Jan. 26 9:00 am – 12:00 pm

2018 WOC EDUCATION PROGRAM HOURS

Monday, Jan. 22 (Pre-Show Education All Day)

WOC 3-Hour Seminars:

8:00 am – 11:00 am; 1:00 pm – 4:00 pm

WOC 4-Hour Certification Seminars:

8:00 am – 12:00 pm; 1:00 pm – 5:00 pm

WOC 90-Minute Seminars:

8:30 am – 10:00 am; 10:30 am – 12:00 pm

1:30 pm – 3:00 pm; 3:30 pm – 5:00 pm

Tuesday, Jan. 23 – Thursday, Jan. 25

WOC 3-Hour Seminars:

8:00 am – 11:00 am

WOC 4-Hour Certification Seminars:

8:00 am – 12:00 pm; 1:00 pm – 5:00 pm

WOC 90-Minute Seminars:

8:30 am – 10:00 am; 1:30 pm – 3:00 pm

Friday, Jan. 26

WOC 3-Hour Seminars:

8:00 am – 11:00 am

WOC 90-Minute Seminars:

8:30 am – 10:00 am

Seminar schedule is subject to change.

Visit www.worldofconcrete.com for the most up-to-date information.

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