Upcoming Events

May 20, 2014: Troubleshooting Concrete Construction (ACI National Seminar)

Concrete 101 Full-Day Workshop A Great Success!
By Don Corson – ICACI Past-President

ICACI’s bi-annual workshop, “Concrete 101: What Every Concrete Professional Should Know!” was presented to a full house at American Structurepoint’s office in Indianapolis. Following a continental breakfast, John Melander of the Slag Cement Association kicked things off with a discussion of the varied uses and positive attributes of Slag Cement (aka “Ground Granulated Blast Furnace Slag”) and once rolling the workshop proceeded nearly non-stop for the full day.

The success of the program depended on the tremendous effort of the speakers and the ICACI Board members who participated in securing the venue, preparing the PowerPoint files, setting up and printing the handout materials and not least of all, securing meals and refreshments which were in good supply all day long.
The full ICACI Board and its officers extend a very sincere “Thanks!” to the speakers and also to all those that were able to attend. Comments and ratings from the participants via a feedback survey indicated a very good deal of satisfaction with the program. A full listing of this year’s *Concrete 101* topics and presenters:

**Using Slag Cement (GGBFS) in Concrete**
John Melander – Slag Cement Association

**ICF’s - Concrete Buildings Redefined**
Jill Lewis-Smith – Civic Consultants, Inc.

**Rebar Basics**
Michael Hagenberger – Valparaiso University

**Self-Consolidating Concrete**
John Schemmel – Valparaiso University

**Concrete Testing**
Tom Grisinger – Lehigh Cement

**Quality Concrete Finishing and Troubleshooting**
Marvin Obermeyer – Buzzi Unicem USA

**Concrete Floor Flatness and Levelness**
Ryan Decker – Wilhelm Construction

**Concrete Sealers**
Chris Wolf – Shelby Materials

*Jill Lewis-Smith of Civic Consultants, Inc., leads a session on the strength and energy-saving characteristics of buildings constructed with Insulating Concrete Forms (ICF’s).*
ICACI Welcomes New Board Member

Chad Clark of IMI has been approved by the ICACI Board of Directors to serve out the remaining Board tenure of Mike Browne, who resigned his directorship due to excessive work demands. Mike enthusiastically recommended Chad, who is the QC Manager for IMI North. His tenure will run through June, 2015.

Chad has been married to wife Claire for 5 years. They have a son Cas Michael who turned 2 in October. Claire works in skin care and Cas’s only focus is trucks and more trucks. They also have two pups, Paris a black lab & Sydney a short leg beagle.

Chad has been with IMI since the winter of 2005. Before then, he spent 8 years doing construction layout and field inspection for firms like USI Consultants and Floyd Boroughs & Associates. His career at IMI has been spent in the Quality Control Department. He is now the QC Manager for IMI’s North & Eastern Indiana facilities made up of 30 ready mix locations. Some of his larger markets include Lafayette, Kokomo, Muncie, & Oxford OH.

Welcome aboard, Chad!!

Winter and Spring Grading for Concrete Slab-On-Grade Construction

By John Krupski – ICACI Vice-President

The end of Winter and onset of Spring can often times be troublesome for site grading operations, especially those related to building pads where preparations are being made for concrete slab-on-grade construction.

With Spring thaw and rain showers, the project site can become a real quagmire.
Site grading for concrete slab-on-grade construction has the potential to be much more costly and a source of significant time loss in a project schedule during the months of rainfall and repeated freeze-thaw cycles. Managing these conditions successfully is essential to maintaining the critical path of a project’s schedule and if planned for appropriately can have a minimal impact on the project budget. The following is a discussion of several techniques that can be implemented to help mitigate the challenges of preparation for the construction of concrete slab-on-grade during the winter and early spring months.

Typically, subgrade for a building pad is graded to its finish elevation and left flat while adjacent foundation and below grade elements are installed. During winter and early spring months, this method is risky and can impart costly impacts to a project. As the project site becomes saturated, experiences freeze-thaw cycles, and incurs heavy construction traffic, the subgrade can lose strength requiring additional effort before the slab-on-grade can be placed. This additional effort often may entail undercutting of impacted soils and replacement with well-compacted structural fill material, which can require unaccounted for additional costs. The use of chemical modification or stabilization may also be an option for remediation but one that can be avoided with proper site management techniques. Grading the building pad above the required finish elevation and crowning it to promote positive drainage is one cost effective method to help alleviate the risk of loss of subgrade strength. Additionally, protecting the building pad subgrade soils from direct contact with the elements or construction traffic by means of a granular base cover can also decrease the risk of loss of soil support. Mitigation of the discussed conditions can also be accomplished by strategically selecting an alternative subgrade material such as a well graded stone.

As always, maintenance of the project site as a whole is very important. Keeping the site free from significant rutting due to construction traffic and having planned routes away from the building area will diminish the detrimental seasonal affects to the project site.

Subgrade preparation is of utmost importance to the short and long term quality of slab-on-grade construction. Winter and early spring weather conditions can increase project costs especially as they relate to grading for concrete slab-on-grade construction. With proper planning for operations occurring during the months where adverse conditions are present and the implementation of some basic strategies to help mitigate potential problems, these costs can be held to a minimum and help make your project a success.
ICACI to Host ACI National “Troubleshooting Concrete Construction” Seminar on May 20

By Don Corson – ICACI Past-President

This coming May 20, ICACI will host the one-day seminar “Troubleshooting Concrete Construction.” This program will cover problems with fresh concrete, concrete slabs, formed concrete walls and columns, and low concrete strength issues. Instructors for this seminar will be W. Calvin McCall and Charles K. Nmai and the program will be held at the American Structurepoint office in Indianapolis.

Anyone involved with concrete construction will gain new insight into the causes and solutions of problems. Whether you are a contractor, design engineer, specifier, material supplier, or government agency employee, you will come away from this seminar with answers to your most difficult questions.

Attendees will receive the following FREE publications (a $295.00 value):

- ACI 309.2R-98(05) Identification and Control of Visible Effects of Consolidation on Form Concrete Surfaces
- ACI 308R-01(08) Guide to Curing Concrete
- ACI 303R-12 Guide to Cast-In-Place Architectural Concrete Practice
- ACI 303.1-97 Standard Specification for Cast-in-Place Architectural Concrete
- ACI 302.1R-04 Guide for Concrete Floor & Slab Construction
- ACI 301-10 Specifications for Structural Concrete
- NRMCA/ASCC Pre-Construction Checklist
- Speaker Lecture Notes

Registration information can be acquired by contacting any ICACI Board member or at the ACI National website link:


In addition, a flyer and registration form are included with this newsletter.
Upcoming Certification Dates

ACI Concrete Field Testing Technician, Level 1 programs are indicated below.

**Indianapolis (Fishers):**
- March 14-15
- April 25-26
- May 30-31
- July 18-19

**Ft. Wayne:**
- April 11-12

**Evansville:**
- May 2-3:

First Day: Review Class; Second Day: Written and Practical Exams

Certification Program Policy: Examiners and Supplemental Examiners (Proctors) are required to be a Member of Indiana Chapter ACI; either through an Individual Membership or under a Company Membership.

For a registration flyer or questions about the program, please contact Eileen Dick ~ phone (317) 733-1902 or see our website www.indianaaci.org.

The ACI – Indiana Chapter extends a big “THANK YOU!!” to Sagamore Ready Mix (formerly Builders Concrete) for hosting the Indianapolis area certification programs in 2014.

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![Sagamore Ready Mix Logo](image)
ICACI Officers and Board of Directors

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Indiana Chapter ACI Website
The Indiana Chapter has a website where you can find information on upcoming events, such as, ACI certification classes, programs, and golf outings. Membership applications, Award nomination forms, Scholarship applications and other information are also available. Please go to www.indianaaci.org.

IC-ACI Tax-Exempt Status
As a tax-exempt organization, the Indiana Chapter American Concrete Institute is required to file an annual Return to the Internal Revenue Service. The Return is available for review by any member of IC-ACI. For information, contact Tom Grisinger, Secretary/Treasurer at 317-409-3218 or tgrisinger@lehighcement.com.
ACI ONE-DAY SEMINAR
Troubleshooting Concrete Construction
Indianapolis, IN, May 20, 2014

FREE PUBLICATIONS
As part of the seminar, you will receive FREE the following publication(s) a $295.00 value: Identification and Control of Visible Effects of Consolidation in Formed Concrete Surfaces, Guide to Curing Concrete, Guide to Cast-In-Place Architectural Concrete Practice, Standard Specification for Cast-in-Place Architectural Concrete, Guide for Concrete Floor and Slab Construction, Specifications for Structural Concrete, NRMCA/ASCC Pre-Construction Checklist and Seminar lecture notes.

SEMINAR OVERVIEW
When you have problems with concrete, this seminar provides the solutions.

FACULTY
W. Calvin McCall, PE, FACI, President, Concrete Engineering Consultants, Inc., Charlotte, NC., investigates field problems related to material deficiencies, admixture and cement compatibility, and mix designs that affect strength, setting, and finishing. and distress and provides cost-effective solutions.

Charles K. Nmai, PhD, PE, FACI is Manager of Engineering Services at BASF Corp. (Admixture Systems) a leading manufacturer of specialty construction chemicals headquartered in Cleveland.

For more detailed information on the faculty, go to www.concreteseminars.com.

ACI is not responsible for statements opinions expressed by instructors.

SEMINAR TOPICS
- **Problems with Fresh concrete**
  - Admixture incompatibility
  - False set
  - Plastic shrinkage cracking
  - Rapid slump loss
  - Variation in air content
- **Problems with Slabs**
  - Abrasion loss
  - Carbonation
  - Cracking
  - Curling
  - Discoloration
  - Drying shrinkage
  - Flatness
  - Joint failure
  - Misplacement of reinforcement
  - Popouts
  - Scaling
  - Identification of deterioration
- **Problems with vertical concrete**
  - Air surface voids
  - Bug holes
  - Form offsets
  - Form sticking
  - Honeycombing
  - Streaking layer lines
  - Identification of deterioration
- **Problems with Structural Concrete**
  - Cracks, and what they mean
  - Fire damage evaluation
  - Load tests
  - Identification of deterioration
- **Field and Laboratory Techniques used in Concrete Problem Solving**
  - Visual observation
  - Impact-rebound
  - Windsor probe
  - Petrography
  - Chemical tests

SEMINAR TIMES
Registration for this seminar begins at 7:45 am. The seminar will be conducted from 8:00 am to 5:00 pm. Lunch will be from 12:00 – 1:00 pm. Continental breakfast, lunch, refreshment breaks, and a complimentary publication are included in your registration fee.

WHO SHOULD ATTEND
Anyone involved with concrete construction will gain new insight into the causes and solutions of problems. Whether you are a contractor, design engineer, specifier, material supplier, or government agency, you will come away from this seminar with
ACI ONE-DAY SEMINAR
Troubleshooting Concrete Construction
Indianapolis, IN, May 20, 2014

SEMINAR REGISTRATION:
TR04INS

Seminar Location

American Structurepoint
7260 Shadeland Station, Grandview CR
Indianapolis, IN 46256

CoSponsor

Indiana Chapter ACI

FEES AND SIGN UP

$597 Nonmember Registration Fee
$457 ACI National Member and Employees of

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

REGISTER TODAY!

Web: On the web www.concreteseminars.com
Phone: Member Services, 248-848-3814 – 8:00-5:00 ET

$125 Full-Time Students
Discounted student seminar fee is for full-time students only. Include current proof of enrollment with your registration.

CONTINUING EDUCATION CREDIT

Attendees receive 0.75 CEUs worth 7.5 PDHs.
Approved course provider for:

- American Institute of Architects (G115; TRO)
- Florida Board of Professional Engineers (Provider #0003855)
- Louisiana Professional Engineering and Land Surveying Board
- North Carolina Board of Examiners for Engineers and Surveyors

REGISTRATION FORM

Name:____________________________________________Registration Fee:$_________________________
Company:_________________________________________________________________________________
Address___________________________________City, State, Zip___________________________________
Phone:_______________________Fax:_________________Email:___________________________________

Code: CHP

Registration fee includes complimentary copies of ACI publications worth $295.00, continental breakfast, lunch, and coffee breaks. The registration fee does not include hotel accommodations, travel costs, or any other expenses.

Make checks payable to ACI, or charge to ☐ VISA ☐ MasterCard
Account No.:___________________________________________Expiration Date:__________________________
☐ 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.
☐ If you have a disability that requires special accommodations, please check here and append a statement regarding your disability-related needs. We cannot assure appropriate accommodations without adequate information and adequate advance notice, so please provide this information at least 14 days in advance of the seminar. You will be contacted prior to the seminar.

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. In fairness to all attendees, 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.