



2010

ACI Nebraska Chapter

President's Message



The chapter had a good year as we once again were recognized as an Outstanding Chapter. I would like to thank **Bob Irwin** for his leadership in 2009 as well as the rest of the board for their efforts.

We will continue our focus on education. We had good attendance at our breakfast seminars last year and I look forward to even better

things to come this year. **Mike Gerdes** has already begun what I think will be a great series of seminars. Watch for fliers coming in the mail and make sure you sign up. The topics are always current and its an easy way to get continuing education or professional development hours.

Training and certification continues to be a big part of what we do. Thank you to **Mike Willman** and **Larry Schmidt** who volunteer a lot of time to teaching these classes. Thank you also to the members that help with the physical testing. We can't do it without you and appreciate all the help we can get.

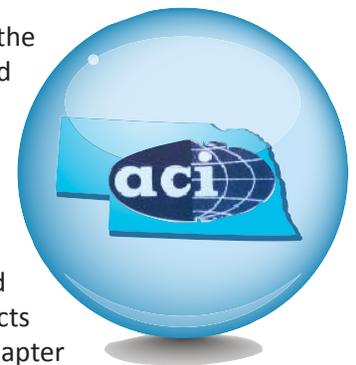
I would also like to thank **Tom Busboom** for his years of service to the board as he has completed his term. Welcome to **Dale Kisling** as he is the new addition to the board.

I look forward to another strong and productive year for the chapter. As always we are constantly looking for ways to improve. Let any of the board members or officers know if you have an idea or a comment. We would love to hear from you.

Steve Wobken

ACI Nebraska Chapter *Annual Awards of Excellence*

The Nebraska Chapter of the American Concrete Institute held its Annual Awards of Excellence Banquet on February 5th, 2010 at the Qwest Center in Omaha, Nebraska. Over 60 attendees from ACI-NE membership and project participants witnessed project highlights from four projects constructed last year. ACI-NE Chapter awarded two projects in the Category of "Outstanding Achievement" and two projects for the prestigious "Award of Excellence."



The purpose of this competition is to recognize outstanding work in concrete construction and practices within the State of Nebraska. Projects must be noteworthy for their use of concrete. The concrete may be precast, pre-stressed, cast-in place, tilt-up or concrete masonry. Special uses of concrete or innovative concrete construction techniques are mandatory for recognition.

More **AWARDS OF EXCELLENCE** . . . page 2

INSIDE

Board Member Bio - Dale Kisling	3
Awards of Excellence	4
Outstanding Achievement Awards	5
2010 Programs Report	6
Board Meeting Minutes	7
Technical Committee Report	8
Membership Report	8
Industry News Reports	9

printed quarterly by



**AMERICAN CONCRETE INSTITUTE
NEBRASKA CHAPTER**

Chartered, December 1987

OFFICERS

President	Steve Wobken
President Elect	Michael Gerdes
Vice President	Dale Mueller
Secretary	Jereme Montgomery
Treasurer	Mike Willman
Past President	Bob Irwin
Executive Secretary	Richard T. DeLorm

BOARD OF DIRECTORS

Larry Schmidt	2010
Randy Lane	2010
Aaron Luth	2011
Joseph Menard	2011
Joel Sedlacek	2012
Dale Kisling	2012

Visit Our Website at

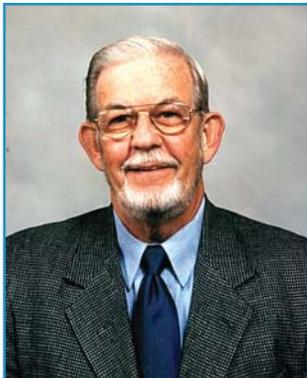
www.acinebraska.org

Webmaster

Jill Reeves
jillreeves@cox.net



EXECUTIVE SECRETARY AND NEWSLETTER EDITOR



Richard T. DeLorm

rdelorm@msn.com

Phone 402-466-3948



View this year's 2009 Awards of Excellence Presentation online! **Jereme Montgomery's** "Prezi" is an interactive presentation chock full of photos and information about this year's Awards of Excellence recipients.

You can view the Awards presentation and explore the photos and information in more detail by visiting our home page:
www.acinebraska.org

After the award ceremony, the 2010 ACI-NE Board of Directors was announced.

The slate is as follows: board members Randy Lane, Larry Schmidt, Dale Kisling, Joel Sedlacek, Aaron Luth and Joe Menard. The officers are Dick DeLorm-Executive Secretary, Jereme Montgomery-Secretary, Mike Willman-Treasurer, Dale Mueller-Vice President/Membership, Mike Gerdes-President Elect/Programs, Bob Irwin-Past President; Tom Busboom just finished his term on the board, and Steve Wobken-President.

Congratulations to all award winners...job well done!

For more on this year's Awards of Excellence, see pages 4 and 5 of this newsletter.

Board Member Bio

Dale Kisling



Dale Kisling went to work for Protex Industries in the late '80's as a sales and field technician working with chemical admixtures. While working for Protex he called on ready mix producers and construction companies in South and North Dakota and Nebraska for three years, coming to work for Nebraska Fly Ash Company as a production manager in 1990. Working in Sales in Nebraska and Iowa and overseeing improvements of storage and loading facilities at Omaha and Nebraska City O.P.P.D., Electric Generation Stations and the N.P.P.D. Gerald Gentlemen Station Sutherland, NE. Dale currently is Vice President of Nebraska Ash. He has enjoyed meeting many great people while serving on local government and association boards and committees over the years.

Dale is married. He and his wife Grace have three children, Sophia, thirteen, Olivia, eleven and Timothy, nine. They enjoy family vacations, spending time outdoors playing sports, swimming, fishing and driving or riding anything with a motor. Dale and his family live out in the country south of Lincoln.



Past Presidents

L to R: **Mike Willman**, **Tom Busboom**, **Mark Deetz** and **Bob Irwin**

Passing the Gavel

Now past president of the ACI Nebraska Chapter, **Bob Irwin** passes the gavel on to new president, **Steve Wobken**.



2009 Award of Excellence Midtown Crossing at Turner Park Structural Concrete

Midtown Crossing at Turner Park is a \$320 Million dollar redevelopment project in the heart of Omaha, Nebraska. The project consisted of seven buildings and two parking structures with a total of nearly 80,000 cubic yards of concrete, 10 million pounds and reinforcing steel and 260 miles of post-tension cables and 400,000 SF of precast concrete panels.



L to R, Front Row: Nelson Jacobs (Neilson Baumert Engineering) John Taylor (Weitz), Mark Deetz (Ready Mix), Angela Ullman (Terracon), Back Row; Bill Anthony (Weitz), Dan Rupprecht (Rupprecht Engineering), Colm Breathnach (Enterprise Precast), Rob Thornson (Weitz), Tom Blankmon (Weitz), Rob Zimmerman(Weitz), Scott Miller, (Terracon), Jason Camenzind (Terracon).

The equipment used employs a sacrificial data logger embedded in the wet concrete at the time of placement. The logger records the temperature of the concrete as it cures and calculated the Maturity Index in the sensor itself. This technology allows the user to confirm the strength of the concrete necessary to support construction activities at an earlier time than using traditional test cylinders.

2009 Award of Excellence Metropolitan Community College Pervious Concrete

Metropolitan Community College, Culinary Arts Building is the first pervious concrete placement in Nebraska and as it now stands, in the Nation, to utilize both newly formed testing standards; ASTM 1688, Standard Test Method for Density and Void Content and



L to R: Aaron Luth, Robert Nawojski, Magaret Platek, Randy Stark, John Cambridge, Michael Gredes, Stan Horrell (MCC), and Jereme Montgomery.

ASTM 1701, Standard Test Method for Infiltration. Also, a density curve was used to predict and control in place void content. The target range of 15-20% void content was selected and a targeted void content of 17.5% was established.

Testing for conformance, cores obtained averaged 16.7% void content, less than 1% from targeted 17.5%.

Also, six ASTM 1701 test for rate of infiltration were conducted. A high result of 2016 in/hr and a low of 62 in/hr were documented averaging just over 700 in/hr.

2009 Outstanding Achievement

Lake Wanahoo Dam

Roller Compacted Concrete



L to R: Jereme Montgomery and Brian Marple

Peltz Companies, Inc., was chosen as the Roller Compacted Concrete subcontractor for a major portion of the new Lake Wanahoo Dam Project being constructed in Saunders County, just north of Wahoo, Nebraska.



Roller Compacted Concrete was selected as the product of choice, due to its lower cost and speed of construction. Over 16,000 cubic yards of RCC were produced in the onsite continuous mix pugmill owned and operated by Peltz.

2009 Outstanding Achievement

Creighton Prep High School - Grind & Polished Concrete Floor

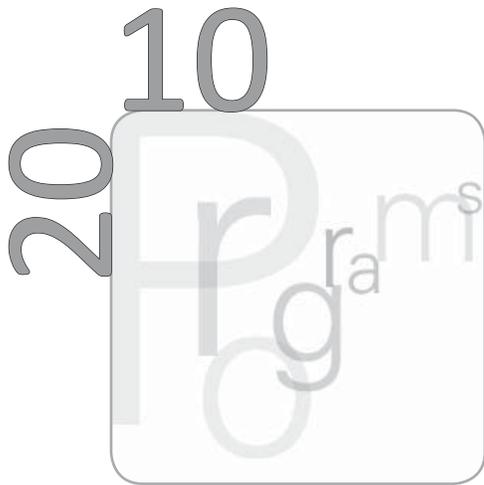


L to R: Larry Schmidt, Randy Stark (Consolidated Concrete), Aaron Luth (Consolidated Concrete), Kevin Flint (Creighton Prep), Joe Brudney and Mark Brim (HDR)

As part of the gymnasium and classroom addition to the Creighton Prep High School in 2009, DLR Group specified a "grind and polished" concrete floor system.

This gave Daedalus construction the opportunity to place a concrete mixture that included a special gradation of native Nebraska aggregates, to create what is now a polished concrete floor, seen as you enter the school.





*Submitted by
Michael Gerdes*

First of all, I would like to thank **Steve Wobken** for the overall organization and diversity of programs presented during our breakfast seminars in 2009. Steve did a wonderful job! As the new President Elect and programs committee chair for 2010, I have some big shoes to fill.

The 2010 programs kicked off with our annual ACI Nebraska Chapter Banquet and Awards Dinner held at the Qwest Center in Omaha in February. During the months of March through May of 2010, we will be presenting a short series of seminars that we will refer to as the "Back to the Basics of Concrete Series."



Beatrice Country Club
Beatrice, Nebraska

Leading into our construction season after such a harsh winter, we thought it would be good to focus on some of the fundamentals of our chosen material. The series of breakfast seminars during the spring will again be held at the Omaha Marriott at 10220 Regency Circle in Omaha. A rough outline of our spring programs and presentation content follows:

March, 2010 (middle to end of March)

Program Title:
"Concrete - from Stockpile to Site"

Summary: Presentation on materials, production, admixtures, transport and everything it takes to make a load of concrete and transport it to the site. Focusing on materials specifications and improving product quality and performance.

April, 2010 (middle to end of April)

Program Title:
"Concrete's Here"

Summary: Presentation on pre-delivery job site preparation, job site delivery methods and techniques, handling, placement, finishing, consolidating and curing.

May, 2010 (before May 20)

Program Title:
"Concrete Pavement and Structural Repairs"

Summary: How to properly remove and replace or repair concrete members.

In addition to our breakfast seminars, our annual golf outing will be held at the Beatrice Country Club on May 7, 2010. More information and event registration forms will follow in April.

We are looking for general ideas, topics, field trips, and presenters for our breakfast seminars that will resume in August and last through December of 2010. Please call or email me with your thoughts for presentations and or field trip sites. I can be contacted at either (402) 556-2171 or mgerdes@thielegeotech.com.

Nebraska Chapter ACI Board of Directors Meeting Minutes

February 9, 2010

Mahoney State Park

Attending: Bob Irwin, Mike Willman, Steve Wobken, Aaron Luth, Randy Lane, Michael Gerdes, Jereme Montgomery, Joel Sedlacek, Dale Mueller, Dale Kisling

Meeting Commenced: 7:45am

Opening Remarks: Recognition of Anti-Trust Statement

Approval of Past Minutes: Reviewed meeting minutes from January 12, 2010. A motion was made and a second to approve meeting minutes of January 12, 2010.

Treasurer's Report: The treasurer's report was distributed to group. Report included balance sheet and income statement as of February 8th, 2010. A motion was made and a second to approve treasurer's report. A Certificate of Deposit is going to mature next month. It was concluded that we should let it roller into another 6 month CD.

Executive Secretary's Report: No Report

Committee Reports:

Awards (Schmidt, Montgomery, Sedlacek, Kisling): Awards Banquet was held last weekend. Group thought it was well received. Committee thought we needed to improve on how awards were submitted. We need to have better details asking on what we are looking for. Committee will submit proposed submittal to BOD before sending out notifications next year.

Education (Mueller/DeLorm): Committee reported a drop off in scholarships across the board that required any type of letter requesting award of scholarship.

Libraries (Montgomery): No Report

Membership (Gerdes/Willman):

Committee reported on current membership status. Discussion on 60 national members that reside in Nebraska but are not local members. Need to campaign for these memberships. Committee also reported on how we can communicate to membership easier. Things such as google docs, was mentioned and will give more of an update next meeting.

Also, a list of current members with contact information was distributed to group.

*Submitted
by Jereme
Montgomery*



Newsletter (DeLorm): Articles Due Mid-March!

Nominating Committee (Busboom): No Report

Programs (Gerdes): A tentative schedule of 2010 programs was distributed to group. Potential programs:

- March – “Concrete – from Stockpile to Site,” Presenting on materials, production, admixtures, transport and everything it takes to make a CY of concrete and transport it to the site.
- April – “Concrete’s Here”, A presentation of job site delivery methods and techniques, handling placement, finishing, consolidating and curing.
- May – “Concrete Pavement and Structural Repairs”, How to properly remove and replace or repair concrete members.

Programs – Golf (Menard): ACI-NE spring golf outing is set for May 7th, 2010. Location will be Beatrice Country Club, Beatrice, NE.

Public Relations (Lane/Schmidt): We will publish New ACI NE BOD in any free local paper. A motion was made and seconded to publish award of excellence winners in the Omaha World Herald, not to exceed \$500.

Technical (Willman/Luth): Certifications are up and running. Willman indicated another busy year and did add 1 more ACI Field Testing Certification, in Grand Island.

LEED Information (Wobken/Luth/Montgomery): Committee reported PCA's new marketing ad campaign for sustainable concrete. www.think-harder.com

MEETING MINUTES. . . continued next page

MEETING MINUTES. . . . continued from previous page

Website (Willman/Irwin): Need to update new BOD on website and try to put awards prezi on website.

Liaisons:

- ACI International- ACI Annual Convention is being held in Chicago March 21-25th.
- NC&AA- NC&AA Annual Convention, February 18th and 19th in Kearney, Ne.
- NCPA- Workshop had 230 attendees, great speakers and topics.
- ASCE-No Report
- AIA-No Report
- PCA North Central Region-No Report
- ASTM- No Report

Old Business- No old business

New Business- Willman handed out budget for 2010. A motion was carried and a second to approve 2010 budget as amended.

End of Meeting: A motion was made, seconded and approved to dismiss at 8:50am



Technical Committee Report

*Submitted by
Michael Willman*

We have now finished six ACI Field Testing Grade I certification classes, one strength class and our first NDOR Plant class, with 5 more this month.

We will be testing Southeast Community College students on March 12, in Milford. This promises to be a busy year for the certification program.

2010 Membership Report



Submitted by Michael Gordes

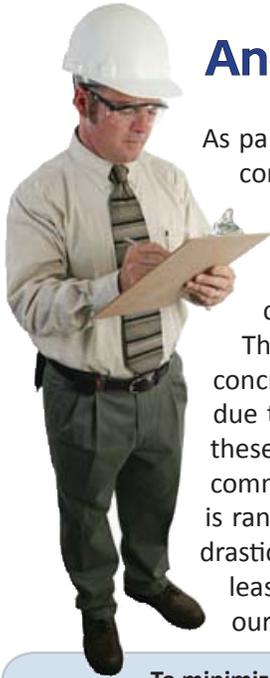
I would like to thank our membership for their commitment to keeping the Nebraska Chapter of ACI strong in a challenging economy. Our chapter has been awarded ACI's Outstanding Chapter status again for 2009. The Nebraska Chapter of ACI has a diverse membership of testing technicians, construction inspectors, product representatives, materials suppliers, contractors, architects, and engineers. The strength of our chapter membership is closely related to this diversity.

Membership renewal letters were sent out in January. The majority of you have renewed your memberships for 2010. If you did not receive a membership renewal form, please contact me. The cost of membership in the Nebraska Chapter of ACI is \$30 annually for regular associates and \$5 annually for full-time students. Members receive reduced rates for seminars and outings.

A focus area for expanding the Nebraska Chapter's membership over the next year will be our fellow Nebraskans that are members in ACI International. From researching the ACI website, we have about 60 fellow Nebraskans that are members of ACI International, but are not members of the Nebraska Chapter. We will be working to contact these individuals and invite them to participate and consider membership in the Nebraska Chapter. The benefits of increased membership will enhance our programs, increase networking opportunities in the industry, and further promote our technical training abilities.

A second membership focus for 2010 is finalizing a composite membership database. Once a composite membership database is in place, we can take advantage of electronic distribution of publications, newsletters and seminar and event announcements. The database can also be utilized as we move towards online registrations for seminars and events. By the fall of 2010, it is my plan to be able to allow members and non-members to register and pay online for seminars and events, renew their memberships and update their contact information online. It's a mighty goal for a group of volunteer members!

For questions regarding memberships or renewal status, feel free to contact me directly at (402) 556-2171 or mgerdes@thielegeotech.com. A membership form is also posted on the Nebraska Chapter website at www.acinebraska.org.



Another Building Code For Concrete?

As part of our commitment to the local Home Building Industry, we want to keep you informed of any concrete related information regarding new technologies or events that may impact your business.

Homeowners expect the highest quality and workmanship in every component of their new homes, including concrete. The concrete industry continues to offer solutions to meet the expectations of today's demanding homeowners. While it might be impossible to eliminate all complaints or call backs, it should be our mutual goal to significantly reduce them.

The city of Joliet, Illinois has recently adopted municipal building codes that strictly regulate residential concrete and installation procedures. The new codes and rigorous enforcement were implemented due to excessive residential concrete problems associated with the winter of 2000-2001. Addressing these issues now will forestall or eliminate the possibility of this occurring in our market area. The most common complaint seems to arise from surface scaling of exterior concrete. Another common complaint is random cracking of both exterior and interior concrete slabs. The good news is that it's feasible to drastically reduce the frequency of both problems. The following industry recommendations should at least be considered. Let's work together to assure that the situation in Joliet Illinois does not occur in our market area.

To minimize or eliminate the potential for Concrete Scaling, please consider:

1. Using a concrete mix designed for minimum compressive strength of at least 3500 psi.
2. Placing concrete with a maximum water-to-cement ratio of .45. Water-reducing admixtures should be used in lieu of water to achieve desired slump and workability.
3. Applying curing compound and a surface sealing product or applying a combination cure/sealer product.
4. Taking special precautions for late season or cold weather concrete placements.

To minimize or eliminate the potential for Random Cracking, please consider:

1. Assuring the thorough, uniform compaction of all subgrade.
2. Placing concrete with a maximum water-to-cement ratio of .45. Concrete containing too much water has a higher shrinkage coefficient and a greater potential to develop random cracks.
3. Using an inexpensive evaporation-retarding product during concrete placing and finishing.
4. Following recommended control (contraction) jointing practices. Jointing tools that cut one-inch minimum or early entry (Soff-Cut®) sawing have proven to be more effective than "knifing" or cutting joints with a margin trowel and then finishing the joint with a shallow jointer tool.
5. Following recommended isolation joint practices around basement and garage floor perimeters, slab penetrations and exterior masonry.

Use of Deicing Chemicals on Concrete

Anything that can melt snow/ice (artificially lower the freezing point of water) can "potentially" damage concrete surfaces by what is commonly referred to as "scaling."

This happens because the concrete surface becomes more saturated with moisture each time there is a thawing cycle. When the surface is subjected to several freeze-thaw cycles the saturated surface can no longer restrain the expansion of the moisture within, and this expanding force causes the surface to "pop" loose.

If, however, a suitable concrete mix (designed for 4000 psi minimum strength) was used at a moderate water/cement ratio of <.45, and a suitable curing compound (meeting ASTM C-309) was used per manufacturer's directions, the new concrete should be able to withstand moderate amounts of deicing product applied for traction and safety.





**nebraska chapter
american concrete institute**

PO Box 5144 Gateway Station
Lincoln, NE 68505

RETURN SERVICE REQUESTED

Non-Profit Org.
U.S. Postage
PAID
Lincoln, NE
Permit No. 828



*Welcome
Spring!*

NEWSLETTER EDITOR

R.T. DELORM

(402) 466-3948

Progress through Knowledge



2010 Officers and Board Members

Caption: L to R : Jereme Montgomery, Mike Willman, Aaron Luth, Dale Kising, Bob Irwin,
Michael Gerdes, Steve Wobken and Joel Sedlecak