Hello again! Time for another Newsletter from the Nebraska Concrete Paving Association

First, thank you to several of the people that helped us at the Concrete Paving Workshop.

- Mary Jo Oie and Jay Bailey from the NDOR for taking the great photos of the Paving Award Winners.
- Pete Sobetski from BASF for moderating the main session on day 2.
- Nicole Frankl from LTAP for taking pictures of all the sessions.
- Jereme Montgomery and Dennis Smith for MCing the Paving Awards Ceremony.
- And all the others who helped with the lights, the audio-visuals, moderating the sessions, registering the attendees, and keeping the doors from banging.

We had over 300 people attend the workshop. With speakers and exhibitors, we had about 340 registered to attend. Pictures of the Paving Award Winners appear later in the newsletter.

A couple of save-the-date items:

- The next Concrete Paving Workshop is Tuesday and Wednesday, January 20-21, 2015.
- Our golf outing will Monday, June 16, 2014, at the Quarry Oaks Golf Course.

For those that don’t it know yet, we moved from our old office on Cornhusker Highway to a new office at 5700 Seward Avenue in Lincoln. Stop by and see our new digs!

2014 NCPA Concrete Paving Workshop

The 35th NCPA Concrete Paving Workshop was held January 21st and 22nd, 2014, at the Cornhusker Marriott in Lincoln. About 340 registered for our Workshop, which included two days of keynote speakers and educational breakout sessions.

Numerous networking opportunities were also built into the Workshop, including a behind-the-scenes tour of the new Pinnacle Bank Arena in Lincoln. The arena features a combination of a concrete and metal panel facade, open-air roof deck, contemporary glass-encased entrance and concourse offering picturesque views of the State Capitol. Pinnacle Bank Arena is an architectural embodiment of aesthetics and modernity. The facility encompasses 470,400 square feet and cost $179 million to construct.

2013 Concrete Paving Award Winners

A highlight of each year’s NCPA Concrete Paving Workshop is the Awards ceremony held to recognize the best pavements designed and constructed during the current contract year. The Awards program is intended to encourage high quality workmanship in every concrete pavement project.

Turn to page 6 of this newsletter for photos and highlights of this year’s Paving Award winners

We want to thank all those that helped plan and execute the program this year.
Paulsen, Inc., just completed the first pass on the five-inch PCC overlay on US 30 between Cozad and Lexington. Dennis Sandrock from Paulsen, Inc. says they plan to start on the westbound lane in mid-June. Paulsen’s is completing about 1.5 miles daily of concrete paving on this project.
**Developer/Contractor Confirms Concrete as Best Value at Dollar General**

NRMCA Vice President, National Resources, Amy Miller was recently invited by a NRMCA Producer member to meet a developer who also serves as his own general contractor. This developer has built and continues to build Dollar General projects. When the pricing question arose, the contractor shared a spreadsheet he recently populated with numbers of initial construction of parking lots in both concrete and asphalt: concrete was lower. The contractor went on to add that the company had conducted a financial analysis on maintenance and learned that concrete maintenance was 20% of the cost of asphalt maintenance.

"The maintenance dollars are of particular importance to developers, like this one, who enter triple-net lease arrangements," Miller said. “These deals are becoming more popular as they place the full responsibility of maintenance on one party. In this scenario, the developer/contractor gathered pricing from his own subcontractors and determined he could save money at the time of construction and on an ongoing basis as well by building with concrete. “

“Needless to say, in 2014 this developer plans on constructing all upcoming Dollar General projects with concrete.”

For more information, contact Amy Miller at amiller@nrmca.org

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**Sam Olson Retires from the NCPA Board**

2013 was Sam Olson’s last year on the NCPA Board of Directors. Sam, one of the original incorporators of the NCPA, had been on the Board since the NCPA’s inception on June 16, 1980.

Why did the concrete paving industry decide to start a paving association? Sam told me he had seen what the Iowa Concrete Paving Association was accomplishing in Iowa, and because of that began advocating for a Nebraska Association. Eventually, five or six of the Nebraska pavers agreed with him and created the Nebraska Concrete Paving Association.

Sam saw many changes over the years with concrete paving. When he started, dry batching was very common. Then wet batch plants took over. Slipform pavers were being used in Colorado and elsewhere when Sam started with Roberts Construction fresh out of college, and then came to Nebraska. Full-depth PCC paving of the Interstate and Expressway system in Nebraska became the norm, and continues to be the norm today. He watched Nebraska go from plain pavement to baskets to mesh-reinforced pavement back to plain pavement then to using dowel bars at the joints. Sam witnessed the use of new admixtures to improve workability and placement. Sam saw the advent of stringless paving, quick width-changing pavers, and auto grade trimmers among other innovations by the industry.

Sam and his crews were proud of the work they did. Most people would welcome them back after completing a project. And Sam is proud of that.

In the future Sam sees the increased use of stringless and GPS equipment. He also expects to see contractors pick up more of the quality control in the production and paving operations.

I want to give Sam a special thanks for helping me get started as the Pavement Engineer at the NCPA. His advice and help were invaluable to me as I switched from a government agency to the industry side of work.

Good luck to Sam on his (semi-) retirement!
The Benefits of Light Colored Paving Materials

Pavements (and other human-made structures) are quite often constructed of heat-absorptive materials which capture and store solar energy only to later release it into the atmosphere. The result is that densely built urban areas see an increase in ambient temperatures relative to the temperatures of rural areas within the same climatic zone. This phenomenon is known as the Urban Heat Island (UHI) effect.

A recent article in the Pavement Preservation Journal, authored by Yetkin Yildirim, director of the Texas Pavement Preservation Center, explores the role that pavement, in particular, plays in UHI. Because pavements cover approximately 35-40 percent of populated areas, they are a major contributor to UHI. "Heat energy," Yildirim notes, "behaves differently depending on the color of the surface that it comes into contact with." Light colored surfaces generally reflect heat energy, while dark ones absorb it. A surface's degree of reflectance is known as its albedo, which is expressed as a numerical value between 0 and 1 and represents the percentage of the total light striking a surface that gets reflected. A light colored object has a high albedo - near 1, or 100 percent reflectance; a dark object has a low albedo - closer to 0.

Yildirim's article goes on to explain that asphalt pavement has traditionally been black; the albedo of a freshly installed asphalt pavement is about 0.05, meaning that 95 percent of the sun's energy is being absorbed. Aged asphalt, which has faded to a lighter color, generally has a solar reflectance somewhere between 0.10 and 0.18.

New, cured gray cement concrete pavement, on the other hand, has been shown in field tests to have an albedo in the range of 0.35 - 0.40. As concrete ages, it tends to darken because of dirt and tire wear, so most older concretes have albedos in the range of 0.20 - 0.30. The use of white cements and slag cements can improve upon asphalt to an even greater extent: white cement concrete pavements have albedos in the range of 0.70 - 0.80 when new and 0.40 - 0.60 when aged.

Varying the mix design of portland cement concrete can greatly increase its albedo. Researchers in the Heat Island Group at the Lawrence Berkeley National Laboratory performed experiments using laboratory fabrication and exposure (such as simulated weathering, soiling, and abrasion) of 32 different concrete mixes. Their studies confirmed the benefit of using light-colored aggregates and white cement; however, considering the higher costs associated with these materials, the study also indicated that certain blended cements (slag cements) may perform almost as well as white cement while offering a cost comparable to gray cement. And the cost savings obtained by switching from asphalt pavements to normal gray concrete pavements are incontrovertible: Lawrence Berkeley National Laboratory simulations of the influence of pavement albedo on air temperature demonstrate that high albedo pavements could save a city millions of dollars per year in cooling energy and smog-related medical and lost-work expenses.

"High albedo is yet another benefit of diamond grinding when it is used as part of a complete concrete pavement preservation (CPP) strategy for aging pavements," said John Roberts, executive director of the International Grooving & Grinding Association. "Unlike an asphalt overlay solution, CPP with diamond grinding lightens the pavement surface by removing the weather-worn and soiled surface, increasing the albedo and providing the cost savings and environmental benefits discussed above."

To learn more about diamond grinding and CPP, read the IGGA's Concrete Pavement Surface Restoration Fact Sheet: http://www.igga.net/ConcretePvmtSurfaceRestorationFactSheet.pdf

References:
Another Old

Concrete Overlay

Dick Johnson, Madison County Highway Superintendent, pointed me to an old PCC Overlay in Madison County.

The east one-half mile of Omaha Avenue between 25th Street and 35th Street southwest of Norfolk was overlaid with PCC in the middle 1980’s. For some reason, an armor coat was later applied to the concrete.

Here are some pictures of this 30-year old concrete overlay. Notice that some of the armor coat has been worn from the concrete.

An Example of a Concrete Pavement with Low Maintenance Cost

Chris Howser, Cuming County Highway Superintendent, and Dan Niemeyer, Cuming County Road Foreman, showed me a PCC road paved in the middle 1980’s. This PCC Road, called River Road, has required very little maintenance for the last 16 years that Chris and Dan have worked at the county. Maintenance has consisted of placing tar in some cracks, and replacing some panels undermined by flooding along the Elkhorn River. Here are some pictures of the road.
2013 NCPA Concrete Paving Awards

Hawaiian Village S.I.D. 97; Sarpy County

Pictured (L to R): Moe Jamshidi; Randy Pierce; Greg Manly; Ron Meyer; Steffon Adolf; Jason Dietz.

Owner Plaque: Hawaiian Village S.I.D. 97; Sarpy County

Owner Certificates: Dave Barry
Mike Ostransky
Dave Wennstedt
Ruth Evangelisti
Aaron Raszler
Jeff Warinski
Hawaiian Village S.I.D. 97 Board
Hawaiian Village S.I.D. 97 Board
Hawaiian Village S.I.D. 97 Board
Hawaiian Village S.I.D. 97 Board
Hawaiian Village S.I.D. 97 Board
Hawaiian Village S.I.D. 97 Board

Contractor Plaque: L.G. Roloff Construction Co., Inc.

Contractor Certificates: Greg Manley
Ron Meyer
Norm Henerson
Brandon Kildow
Kara Habrock
L.G. Roloff Construction
L.G. Roloff Construction
L.G. Roloff Construction
L.G. Roloff Construction
L.G. Roloff Construction


Eng. Rep Certificates: Steffon Adolf

Designer Plaque: Denny Kaven

Designer Certificates: E & A Consulting Group, Inc.
2013 NCPA Concrete Paving Awards

Dana Trail in Blair

Pictured (L to R): Moe Jamshidi; Bill Ringsdorf; Kent Rohren; Al Schoemaker; Mike Olson; Jason Dietz

**Owner Plaque:**
City of Blair

**Owner Certificates:**
- James Realph
- Kevin Hall
- Chris Jensen
- Brad Andersen
- Keith Christensen
- R.J. Ran
- Hal Kephart
- Marty Shepard
- Jon Stewart

**Contractor Plaque:**
Tab Construction

**Contractor Certificates:**
- Brian Doerr
- Matt Troge
- Bill Ringsdorf

**Eng. Rep. Plaque:**
Kent Rohren

**Designer Plaque:**
Mike Olson

**Designer Certificates:**
- Rich Robenson
- Jeff Knutson

**Owner Certificates:**
- James Realph
- Kevin Hall
- Chris Jensen
- Brad Andersen
- Keith Christensen
- R.J. Ran
- Hal Kephart
- Marty Shepard
- Jon Stewart

**City Council:**
- Mayor
- City Council
- City Council
- City Council
- City Council
- City Council
- City Council
- City Council

**Contractor Certificates:**
- Brian Doerr
- Matt Troge
- Bill Ringsdorf

**Olsson Associates:**
Kent Rohren

**Kirkham Michael Consulting Engineers:**
Mike Olson
- Rich Robenson
- Jeff Knutson
2013 NCPA Concrete Paving Awards

West Haymarket Core Area
Roadway & Utilities (Lincoln, NE)

Owner Plaque: West Haymarket Joint Public Agency (WHJPA)

Owner Certificates:
- Adam Hoebelheinrich
- Mayor Chris Buetler
- Tim Clare
- Doug Emery
- Steve Hubka

Contractor Plaque: Hawkins Construction Company

Contractor Certificates:
- Troy Alexander
- Ron Schuster
- Chris Blume
- Ron Mockelman
- Tom Crockett

Eng. Rep. Plaque:
(Kent Rohren Olsson Associates)

Eng. Rep Certificates:
- Brad Elting
- Brandon Koinzan

Designer Plaque:
- Thomas Leikam

Pictured (L to R): Moe Jamshidi; Ron Schuster; Ron Mockelman; Kent Rohren; Tom Crockett; Brad Elting; Troy Alexander; Jason Dietz.
2013 NCPA Concrete Paving Awards

Stuhr Rd., 2013-P-4- Bismark Rd. to BNSFRR Crossing (Grand Island)

Pictured (L. to R): Moe Jamshidi; Jess Palik; Craig Anderson; Kevin Gehring; Ron Anderson; Paul Schwaderer; Ryan Anderson; Mitt Loeb; Scott Griepenstroh; Jason Dietz

Owner Plaque: City of Grand Island
Contractor Plaque: Gehring Constr. & Ready Mix Co., Inc.
Contractor Certificates:
- Ryan Anderson Gehring Construction
- Craig Anderson Gehring Construction
- Ron Anderson Gehring Construction
- Vicente Ferrer Gehring Construction
- Kevin Gehring Gehring Construction

- Scott Griepenstroh City of Grand Island Pub. Works
Eng. Rep. Certificates: (during construction)
- Mitt Loeb City of Grand Island Pub. Works
- Paul Schwaderer City of Grand Island Pub. Works
Designer Plaque:
- Olsson Associates
Designer Certificates:
- Jeff Palik Olsson Associates
- Andrew Phillips Olsson Associates

Hartington Downtown Revitalization

Pictured (L. to R): Moe Jamshidi; Dale Bohac; Terry Mead; Brad Peitz; Gary Kruse; Jason Dietz

Owner Plaque: City of Hartington
Owner Certificates:
- Brad Peitz Mayor of Hartington
- Tim Burbach Hartington City Council
- Cody Christensen Hartington City Council
- Gary Kruse Hartington City Council
- Deb Addison Hartington City Council
Contractor Plaque: A&R Construction Co.
Contractor Certificates:
- Pablo Castellano A&R Construction Co.
- Santiago Marino A&R Construction Co.
- Santino Piniera A&R Construction Co.
- Tyler Prince A&R Construction Co.
- Anthony Zepeda A&R Construction Co.
- Abraham Zepeda A&R Construction Co.
- Gilbert Gonzales A&R Construction Co.
- Jason Aschoff A&R Construction Co.

- Dale E. Bohac JEO Consulting Group, Inc.
Designer Plaque:
- Terry Mead JEO Consulting, Inc.
Designer Certificate:
- Lou Guy JEO Consulting, Inc.
Terminal Ramp Access Taxiway Reconstruction, Eppley Airfield, Omaha

Pictured: Moe Jamshidi; Josh Kankovsky; Everett Owen; Virgil Oligmueller; Matt Lunzman; Ron Schuster; Brandon Scott; Bryan Kratky; Nick Gaebel; Randy Kuszak; Mitch Kennedy; Mitch Climer; Andy Wester; Joe Ootken; Larry Leuders; Jason Dietz.

**Owner Plaque:**
Omaha Airport Authority

**Owner Certificates:**
- Dave Roth
- Tom Swanek
- Tim Schmitt

**Contractor Plaque:**
Hawkins Construction Company

**Contractor Certificates:**
- Ron Schuster
- Mitch Climer
- Matt Lunzman
- Nick Gaebel

**Eng. Rep. Plaque:**
Joe Oetken

**Eng. Rep Certificates:**
- Bryan Kratky
- Randy Kuszak
- Mitch Kennedy
- Josh Kankovsky
- Everett Owen
- Brandon Scott

**Designer Plaque:**
Lamp, Rynearson & Associates, Inc.

**Designer Certificates:**
- Virgil Oligmueller
- Andy Wester
- Larry Leuders
C77 (14-1) S. 114th St. & Cornhusker Rd. Improvements (Sarpy County)

Owner Plaque: Sarpy County Public Works
Owner Certificates: Bill Herr, Dennis Wilson

Contractor Plaque: Charles Vrana and Sons Company
Contractor Certificates: Jarrod Ryan, Darrell Lasher, Gary Roberts, Noal Schinzel

Eng. Rep Certificates: Jeff Gandy

Designer Plaque: Anthony Egelhoff
Designer Certificates: Michael Bickford, Benjamin Grone

Pictured (L to R): Moe Jamshidi; Bill Herr; Tony Egelhoff; Shane Groh; Denny Wilson; Jason Dietz.
2013 NCPA Concrete Paving Awards

STP-URB-10-2 (119), 2nd Ave. 25th to 31 Streets (Kearney)

Pictured (Front Row L to R): Moe Jamshidi; Ron Blessing; Kevin McKay; Scott Blessing; Joe Lintell; Jason Dietz. (Back Row, L to R): Tom Farber; Phillip Write; Wade Harris.

Project Manager Plaque: Tom Farber  NDOR District 4
Owner Certificates of-Merit: Phillip Write  NDOR District 4
Wade Harris  NDOR District 4
George McNiel  NDOR District 4
Contractor Plaque: Blessing, L.L.C.
Contractor Certificates of-Merit: Scott Blessing  Blessing, L.L.C.
Kevin McKay  Blessing, L.L.C.
Joey Lentell  Blessing, L.L.C.
Ron Blessing  Blessing, L.L.C.
Designer Plaque: Bill Eberspacher  NDOR, Roadway Design Division
Designer Certificates of-Merit: Carl Humphrey  NDOR, Roadway Design Division
Paul Wisnieski  NDOR Roadway Design Division
Tom Foss  NDOR Roadway Design Division
NH-34-7 (124), Platteview Intersection at LaPlatte

Pictured (Front Row L to R): Moe Jamshidi; Ron Mockelman; Ron Schuster; Kurt Peyton; Jason Dietz. (Middle Row, L to R): Don Valla; Marty Weander; Andy Weiss; Tony Kessler. (Back Row, L to R): Don Valla; John Buscher; Dan Volk.

Project Manager Plaque: NDOR District 2
Owner Certificates: NDOR District 2
Contractor Plaque: Hawkins Construction Company
Contractor Certificates-of-Merit: Don Valla Hawkins Construction Co
Tony Valla Hawkins Construction Co
Ron Schuster Hawkins Construction Co
Ron Mockelman Hawkins Construction Co
Kurt Peyton Hawkins Construction Co
Consultant Coordinator Plaque: Tony Kessler NDOR Roadway Design Division
Designer Plaque: Andrew D. Wiest HDR Engineering, Inc.
Designer Certificates-of-Merit: Troy Norviel HDR Engineering, Inc.
Dan Volk HDR Engineering, Inc.
Dave Miner HDR Engineering, Inc.
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(p) = Preliminary data
Base Year: 2002 = 100

Source: Bureau of Labor Statistics
Ship Anchor Found Buried in Nebraska Hayfield!

Wes Wahlgren, NDOR District 4 Engineer, related a story of a riverboat anchor found buried in a hayfield near Brady, Nebraska. It seems possible that the riverboat El Paso lost an anchor while ascending the Platte River in early 1852 on its way to Scottsbluff.

For the entire article on the NDOR’s Roadrunner newsletter, visit this website: http://www.transportation.nebraska.gov/roadrunner/docs/archives/june-july-2008.pdf

Our Mission:

- TO assure that the quality of concrete pavement produced by the concrete paving industry members in Nebraska meets the highest standards.
- TO increase the market share of concrete pavement in highway and airport work within Nebraska
- TO serve the concrete paving industry members’ needs through effective leadership and representation with client agencies
- TO help the engineering community produce better and less costly designs for their clients
- TO recognize high quality design and construction through annual awards

See us at our new address:

5700 Seward Ave., Suite B
Lincoln, NE 68507
Phone: 402-467-2662
Fax: 402-467-2775
Cell: 402-499-7105
E-mail: bcook@nebrconc.org
Members

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Visit www.nebrconc.org for membership information

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A & R Construction
Cedar Valley Corporation
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Diamond Engineering Co.
Elkhorn Paving Construction Co.
Gehring Construction & Ready Mix Co., Inc.
Hawkins Construction Co.
Chester Bross Construction Co.
Iowa Erosion Control
Knife River Midwest, LLC
Paulsen, Inc.
Pavers, Inc.
TAB Construction
TCW Construction Inc.
Ten Point Construction
Upper Plains Contracting, Inc.

Consultants
E & A Consulting Group
HDR Engineering, Inc.
JEO Consulting Group, Inc.
Kirkham Michael Consulting Engineers
Lamp, Rynearson and Associates
Mid-State Engineering
Olsson Associates
The Schemmer Associates
Thiele Geotech

Supplier Members
Arps Red-E-Mix
Ash Grove Cement Co.
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Central Plains Cement
Concrete Industries, Inc.
Dakota Fluid Power
General Resource Technology
GCC of America
GOMACO Corporation
Holcim (US)
FSI by Thrasher
Kerford Limestone
Logan Contractors Supply
Lyman-Richey Corp.
Martin Marietta Materials
Murphy Tractor & Equipment, Co.
Nebraska Ash Co.
NMC Cat
NEBCO, Inc.
Nebraska Truck & Equipment Co., Inc.
Overland Sand and Gravel Co.
Ready Mixed Concrete Co.
Rose Equipment, Inc.
Western Sand and Gravel Co.
Wise Mack
Transwood Carriers
PCA-North Central Region
Richie Bros. Auctioneers

Individual Members
Sarpy County