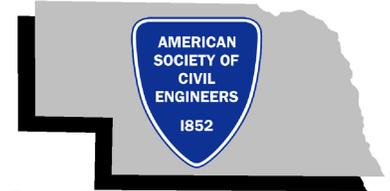


# The Nebraska Civil Engineer



Official Publication of the Nebraska Section of the American Society of Civil Engineers

## Calendar of Events:

### March:

2 - Younger Member & Student Section Discussion Panel at UNO.

4-5 - Water Law, Policy and Science Conference, University of Nebraska College of Law. See <http://snr.unl.edu/waterconference2004> for details.

18 - Environmental Meeting 5:30 PM at Anthony's Restaurant in Omaha

26 - Happy Hour (FAC) The Upstream Brewery, 171st and Center 5:00 pm @ the pool tables.

### April:

22-24 - Mid Continent Regional Conference. (Steel Bridge, Concrete Canoe, and other activities)

### May:

20 - Annual Meeting and Banquet and Order of the Engineer Ceremony

## Annual Banquet and Meeting

Thursday May, 20<sup>th</sup> at the Tiburon Golf Club

Entertainment will be provided at this years banquet; "The Amazing Arther" is a comedy hypnotist with many other entertaining talents.

### Schedule of Events:

Cocktail Hour	6:00 PM (cash bar)
Dinner(Buffet)	7:00 PM
Program	7:45 PM
Comedy Show	8:15 PM

Tiburon is conveniently located on 168<sup>th</sup> Street between Cornhusker Rd and HW 370

## The Environmental Group Presents:

Missouri River Restoration Activities  
Thursday, March 18<sup>th</sup>

**Featuring:** *John Remus II, P.E.,  
Chief, Sedimentation and Channel  
Stabilization Section, United States  
Army Corps of Engineers*

*As chief of the section, John is responsible for the execution of the Omaha District's mission related to sedimentation and channel stabilization projects. The work involves design, construction oversight, and monitoring of navigation, channel restoration, stream bank and bed stabilization, reservoir sedimentation management, and environmental improvement projects. Mr. Remus has Bachelor of Science in Civil Engineering and Masters of Science degrees from the University of Nebraska. He is a member of ASCE and SAME and the Corps' Committee on Channel Stabilization. John is a registered professional engineer in the State of Nebraska.*

**Abstract:** *Mr. Remus will discuss the current and projected Corps' programs to restore the Missouri River ecosystem.*

**Location:** Anthony's 7220 F Street, Omaha

<b>Times: Social Hour</b>	<b>5:30</b>
<b>Dinner</b>	<b>6:30</b>
<b>Presentations</b>	<b>7:30</b>

<b>Menu: Petite Sirloin . . . . .</b>	<b>\$20.50</b>
<b>Broiled Salmon . . . . .</b>	<b>\$21.00</b>
<b>Chicken Alvito . . . . .</b>	<b>\$21.50</b>

**Spouses and guests welcome**  
*RSVP by Thursday, March 11<sup>th</sup>*

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The Nebraska Civil Engineer  
March 1 2004

# From the President

- Mark Stark, P.E.



Mark Stark, P.E.  
NE-ASCE President

After what seems like forever, I can see my front yard again! It seems that Spring 2004 may be here soon and I for one am ready to see it. Spring 2004 brings a number of exciting events for us in Nebraska. Aside from a new football team for the Spring football game, the UNL Student Section of ASCE is sponsoring the Mid-Continent Regional Conference here in Lincoln April 22 through 24. Schools from throughout the Midwest will be here competing in events such as concrete bowling, steel bridge competition, K-nex competition, and the concrete canoe races at Oak Lake. Should be three days of competition and fun and I hope that you can attend. The time commitment and dedication of the students arranging this is simply amazing. The ½ inch thick rules for the concrete canoe judging is an indication of just how involved these competitions are and how much planning effort goes into pulling something like this off. My hat goes off to **Jason Hascall** and all of the other students.

On a somewhat similar note, I thought you might be interested to know that the Nebraska Future City Team didn't fare as well this year as last. The kids tried, but didn't make it to the final round of judging and this year's top five teams in descending order are: Pittsburgh; New York City; Philadelphia; Ohio; and Chicago.

Kudos to **Ed Prost** and the rest of the Geotechnical Committee for bringing nationally recognized speakers to the February meeting and the Geotechnical Conference the next day. A little over 200 individuals attended this year's conference including attendees not only from Nebraska and Iowa, but from Kansas too. The Geotechnical Committee outdoes itself every year as this annual event gets bigger and bigger.

This month's Magic Box tidbit comes from George Koster's "A Story of highway Development in Nebraska". Those of us involved in the transportation field have often heard of the "armor coat" road treatment and I'm sure that several of you have also driven through this mess and cursed the fact that you get it all over your vehicle. As it turns out this type of road construction was developed here in Nebraska by an engineer named Orville Lund during the Depression as a means to save money. In a 1985 interview Mr. Lund stated, "In the thirties, we under-designed the asphalt highways and tried to do everything cheaply. We always seemed to be short of money. On highways where the soil was firm, we tried to eliminate the use of asphalt throughout the pavement depth. We called this soil "aggregate base course". It would have been a much better material if we added asphalt as a cementing agent to hold it together, yet that cost a lot of money so we tried it without the asphalt. We placed a thin layer of asphalt on top which we called an "armor coat" that was one-half inch thick. Of course, we didn't get much performance and we might have to be out patching the road within the year".

The money that was saved was later used to purchase equipment and one of the more interesting pieces was the experimental "road magnet" truck. This vehicle consisted of a large electro magnet attached to a truck frame that was energized as it was driven on the highway to pick up nails and miscellaneous other metals from the roadway. In the first year of operation, this vehicle cleaned 2,105 miles and picked up 6,022 pounds of metal from the highways, an average of 2.9 pounds per mile. The record was set a few years later when the truck traveled the 10 miles between Crete and Wilbur, picking up an average of 18.9 pounds between the two cities.

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## Zone III Younger Member Council Feb 13 - 15 Chicago

*Marie Maly, E.I., ASCE Younger Member Co-Chair*

The 2004 Zone III Younger Member Council, YMC, was held Feb. 13 to 15 in Chicago, IL. The annual event is in conjunction with the Section & Branch Leaders Workshop and Student Chapter Leaders Workshop. **Marie Maly** attended as the Nebraska section delegate to the YMC. **Loras Klostermann** and **Dan Mahrt** attended the Section & Branch Leaders Workshop.

The Friday afternoon sessions found all the participants together to hear welcome messages from Bob Thorn, ASCE Zone III VP, Pat Galloway, ASCE President and Pat Natale, ASCE Executive Director. Jeff Russell presented an update on **Policy Statement 465**, PS 465, from the Committee on Academic Prerequisites for Professional Practice. PS 465 is in the implementation stage, with the ultimate goal of helping prepare future engineers to work in an increasingly complex world. Jeff suggested that **Nebraska may be among the first states to adopt a new model for civil engineers** based on the body of knowledge ASCE is proposing. For more information, see [www.asce.org/raise\\_the\\_bar](http://www.asce.org/raise_the_bar).

There was also a very informative and upbeat presentation about K-12 **Outreach Activities** available through ASCE – talk to **Marie Maly** if you are going to a school, scouting, or other youth event and would like some engineering-related activity ideas. Friday's last major session was an overview of ASCE and its organization.

Saturday morning, the younger members began with group reports – a time for idea sharing and advice seeking. Some of the activities other younger member groups are doing include meeting for lunch, going to see a play or on a hayrack ride, mentoring with veteran ASCE members, and PE study groups. The younger members had sessions on public speaking, "Real" leadership, and technical writing. Breakout sessions on state infrastructure report cards, recruiting and retaining members, public policy, and the proposed governance restructuring were also held.

This summer, ASCE's membership will be given the opportunity to vote on whether or not to change the structure of the organization from the current zone and district format to one with regions. They are hoping to minimize the number of board members while creating additional opportunities for leadership on regional councils and more paths to board service to better reflect the mobility of

# NE-ASCE News

today's members. For more information, see [http://www.neasce.org/Younger\\_member/Z3National/governance/Governance.htm](http://www.neasce.org/Younger_member/Z3National/governance/Governance.htm).

The YMC business meeting was also on Saturday. There was much conversation on the governance issue – in the end, a resolution was passed in support of restructuring; however, no specific region map was endorsed. A resolution was also passed to propose Houston, TX as the location for the 2006 Zone III Conference. The day's official activities ended with district level interaction between section & branch leaders, younger members, and students.

Sunday morning, over 40 ASCE members, including **Dan Mahrt**, were inducted into **The Order of the Engineer**. This was followed by open Q&A with Pat Galloway, Pat Natale, and Bill Henry (ASCE President-elect). The final two sessions were on fundraising and better member communication. Hopefully, the Nebraska section representatives at the Zone III leadership conference will be able to apply some of the great ideas presented over the three days. If you have any questions, feel free to contact **Marie Maly** at 493-4800 or [mmaly@schemmer.com](mailto:mmaly@schemmer.com)

## Leadership & Management

Civil engineering professionals must possess leadership and management skills to complement their technical expertise, advance in their careers, and advance the profession as a whole. Successfully communicating the importance of a project to stakeholders and achieving buy-in, motivating employees and co-workers, and leading in a global and diverse environment, are only a few examples where leadership and management skills are needed to bring about results. ASCE has journals, continuing education seminars and self-study materials, conference sessions, and awards in the leadership and management area to help members' improve these skills, discuss new issues, share ideas, and promote their value.

**Take the Leadership and Management Survey at  
[www.asce.org](http://www.asce.org) by March 18th!**

We want to hear from you! This is your opportunity to help identify important civil engineering leadership and management issues and shape the focus of the Committee on Leadership and Management. The survey should only take about 3 to 4 minutes to complete. Thank-you in advance for your participation.

# NE-ASCE News

## The Order of the Engineer

The Nebraska Section plans to hold an initiation ceremony for the Order of the Engineer at this year's Annual Meeting in May. The Section's first initiation ceremony was held at 2003's Annual Meeting, where twelve engineers accepted the Obligation.

If you are interested in joining the Order of the Engineer, contact **Rick Kaufmann** in Omaha at [webmaster@neasce.org](mailto:webmaster@neasce.org) or 330-2202. Additional information will be forwarded to those interested.

See the Section's website, [www.neasce.org](http://www.neasce.org), or the Order of the Engineer website, [www.order-of-the-engineer.org](http://www.order-of-the-engineer.org), for additional information.

The Nebraska Civil Engineer  
2004  
4  
March

## CHARTING THE FUTURE



ASCE invites you to look ahead! Plan to participate in the 2004 Civil Engineering Conference & Exposition to "**Chart the Future**" for the civil engineering profession, your business, and your career! Opportunities to "**Chart the Future**" will be offered where the magnificent Chesapeake Bay reaches in to embrace the City of Baltimore at the Inner Harbor, one of America's most notable and enjoyable urban renewal sites.

For more information visit [www.ASCE.org](http://www.ASCE.org)

### Note from the Editor:

Please submit news articles for publishing in the April Newsletter by Monday, April 5.

If you'd like to see your project in an upcoming NE-ASCE Newsletter please send articles and pictures to: [peggy-m@lra-inc.com](mailto:peggy-m@lra-inc.com)

Spotlights will be 1- 2 pages as space permits. Companies supporting the NE-ASCE Newsletter will be given precedence, but any company with ASCE members may participate.



Come Join us for a few games of pool and an opportunity meet your engineering peers!

The Younger Members Happy Hour (FAC) is **Friday, March 26** after work at the new "**Upstream Brewery**" 171<sup>st</sup> and Center.

Spouses and Guest Welcome

## Geotechnical Meeting

Thanks to **Ed Prost** and the Geotechnical group for doing an excellent job hosting "Compression Top Lad Reaching Shaft Bottom - Theory vs. Tests"

The names listed below can be considered official documentation of attendance at the February meeting worth 1 PDH credit.

Scott T. Anderson  
Michael Barnett  
Mike Baumen  
Ryan Beckman  
Corey Bergman  
Steve Bottum  
Aaron Buettner  
David K. Crappr  
Ronald Christenham  
Barry Christopher  
Joe Foley  
Aaron Gaul  
Rich Gombs  
John Harcan  
Dave Hamilton  
Richard Handy  
Brian Havens  
Mike Hayes  
John Hill  
Dave Johnson  
Steve Kathol  
Rick Kaufmann  
Loras Klostermann  
Jeff Kortan

Heidi Kramer  
Brad Levich  
Alan Lutenegger  
Lindsay Madsen  
Dan Mahrt  
Marie Maly  
Jeff Manger  
Charles Mansur  
Mike McIntosh  
Dave McIvor  
Ray Moore  
Mike Nacearats  
Steve Nickel  
D. Joe Oetken  
Ryan Paradis  
Andrew Phillips  
Ken Pollard  
Patrich Popsel  
Bill Powers  
Ed Prost  
Steven Sams  
Mark Stark  
Joe Waxse  
Andy Wester  
John Zey