

# THE NEBRASKA CIVIL ENGINEER



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Volume XLIX

October 2001

Number 2

## 2001-2002 Nebraska Section Officers

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## Meeting Information

**DATE:**  
**Thursday, October 25, 2001**

**HOST:**  
Construction Group  
Nebraska Section ASCE

**TOPIC:**  
"Underground Construction  
at the New Omaha Con-  
vention Center"

**SPEAKER:**  
**Terry Atkins**  
**Lamp, Rynearson &  
Associates**

**TIMES:**  
5:30-6:30.....Social Hour  
6:30-7:30.....Dinner  
7:30-8:30...Meeting and Program

**LOCATION:**  
**El Bees 2**  
10402 South 144<sup>th</sup>  
Omaha, NE 68138  
(1/2 mile south of I-80 Exit 440)

**MENU:**  
Macho Chimichanga  
Burrito Fantastico  
Tacolada

**PRICE:**  
\$13 (including tax and  
gratuity)

## DINNER RESERVATIONS

*RSVP with menu choice by noon  
on Monday 10/22/01*

*In Omaha and Eastern Nebraska:  
contact Bob Kalinski at (402) 894-2678  
or [president@neasce.org](mailto:president@neasce.org)*

*In Lincoln and Central/Western Nebraska:  
contact Brad Levich at (402) 466-3911  
or [president-elect@neasce.org](mailto:president-elect@neasce.org)*

## Become a Subscribing Mem- ber of the Nebraska Section

Article II of the Nebraska Section  
Constitution reads:

"Section 1. All members of the American Society of Civil Engineers of all grades, who subscribe to the Constitution and Bylaws of the Nebraska Section, who have paid the current dues of the Section, shall be Subscribing Members of the Section. All other members of the American Society of Civil Engineers of all grades, whose addresses are within the boundaries of the Section, as defined by the Society, shall be Assigned Members of the Section."

"Section 2. Only Subscribing Members shall have the right to vote, to hold office, to serve on committees, or to represent the Section officially."

Another benefit of Subscribing Membership is receiving this newsletter on a monthly basis. To become a subscribing member, simply pay the \$15.00 Section dues on your ASCE renewal application. You will then be eligible to receive full Section membership benefits.



9.11.2001

## President's Comments

### What Can We Do?



Bob Kalinski, President  
Nebraska Section, ASCE

U.S. Attorney General John Ashcroft recently warned citizens that there is a 100% chance of additional attacks on U.S. interests in response to the ongoing war effort to eliminate terrorism. As the country's premier organization for civil engineers, it is our responsibility to be aware of what we can do as part of a necessary response action both at the national and local levels.

As an example, ASCE members on both national and local levels responded quickly to the events of September 11.

#### ASCE National Response

On the National level, ASCE immediately authorized the formation of two teams to study damage to the World Trade Center and the Pentagon. Each team consisted of four members who are experts in the design of complex structures. The team members were tasked to use their contacts in their area of expertise and work with local officials in the disaster area to gain access to the site. When the teams complete their assignment their work will be documented in the form of a report that is made available to the ASCE membership and other interested parties.

The teams were assembled under ASCE Disaster Response Procedure (ASCE Policy Statement 294). This procedure has been in place for approximately 10 years, and this was the fifth time that it has been used to create study teams. Earlier teams, whose members were experts in earthquakes and lifeline engineering, were dispatched to study and document the devastation from the earthquakes in El Salvador, India, the Seattle area, and Peru. Funding for the teams is made available through the ASCE Voluntary Fund.

#### Local Response

On the local level, the New Jersey Branch of ASCE quickly (via email) solicited and assembled a list of names, phone numbers, and areas of expertise of members who were interested in helping at the World Trade Center. A total of 125 engineers from New Jer

sey, New York, and Pennsylvania responded to the request. The ASCE members became part of "Jersey Task Force-1 Urban Search and Rescue Team", a volunteer organization under the New Jersey State Police of Emergency Management. Local ASCE members provided expertise in utility and underground structure mapping to assist rescuers in finding victims, and with supervising transportation of debris materials from the disaster site.

#### So What Can We Do in Nebraska?

I have contact the Nebraska Emergency Management Agency (NEMA) and some local Red Cross Sections to find out the best avenues for involving our members should we be needed for a response in Nebraska. As you would imagine, both organizations were quite receptive to the potential for our involvement. At this time, I am assembling a list of volunteers from the Nebraska Section ASCE who could be involved with disaster response. The list, along with descriptions of specific areas of expertise, will be forward to NEMA and local Red Cross Sections. If you are interested in volunteering to be available, please email me at [president@neasce.org](mailto:president@neasce.org) and I will contact you for more information. Let's hope that we do not have to use the list.

### 2001-2002 Important Dates

- Oct 25 OCTOBER MEETING (Hosted by Construction Group), Omaha
- Nov 11 West Point Bicentennial Engineering Design Contest begins
- Nov 14 NOVEMBER MEETING (Hosted by Management Group), Lincoln
- Jan 16 JANUARY MEETING (Co-hosted by Water Resources Group and UNL Student Chapter), Lincoln
- Feb TBA FEBRUARY MEETING (Hosted by Geotechnical Group), Omaha
- Feb TBA **Annual Geotechnical Conference**
- Feb 17-23 **National Engineers Week**
- Mar TBA MARCH MEETING (Hosted by Environmental Group), TBA
- Apr TBA APRIL MEETING (Co-hosted by Transportation Group and UNO Student Chapter), Omaha
- May TBA ANNUAL MEETING

**ASCE** American Society  
of Civil Engineers

### ASCE Represented at Parade

The Nebraska Section participated in the "Spirit of America Heartland Parade" held by the City of Ralston, Nebraska on Sunday, Oct. 7. The parade was held to "recognize our fellow American Citizens, Firefighters and Police Officers who lost their lives in New York and Washington." The parade received local television and newspaper coverage.

The Section had a contingent marching in the parade with a new CME-75 drill rig to represent the civil engineering profession. The ASCE banner, E-Week posters, and a large American Flag were displayed on the drill rig, and those present carried hard hats in which to collect donations for the American Red Cross and the Salvation Army.

ASCE members present included: Susan Jorgensen-Leo A Daly, Mikhail Ginsburg-Leo A Daly, John Hill – LRA, Aaron Gaul-Terracon, Rick Kaufmann-Terracon, Joe Waxse-Terracon. Also present was Scott Pfouts-Terracon (driver), and many members brought spouses and children.



Above: John Hill and our "float", a brand new CME-75. Scott Pfouts is driving.

Below: L-R, Joe and Caroline Waxse, Tricia and Kate Kaufmann march along the parade route.



### Last Month's Meeting

Below: L-R, Structural Technical Chair Gary Krause; Guest Speaker Dave Jesse, Vice President, Harry A. Koch Co.; and President Bob Kalinski at the September Meeting at Charlie's on the Lake.



#### 50 people attended the Sept. meeting:

- |                        |                         |
|------------------------|-------------------------|
| John Hill              | Robert Gregalunas       |
| Mike Naccarato         | Ryan Paradis            |
| Wes Moore, guest       | Loren Steanson          |
| Shannon Lewis, guest   | David Peterson          |
| Bill Liddy, guest      | Thomas Marnik           |
| Mike Baumert           | Gary Krause             |
| Jeremy Befort, student | Rich Kotan              |
| Reed Schwartzkopf      | David Fanella, guest    |
| Daryoush Razavian      | Sandi Keehn             |
| Steve Bottum           | Kristi Nohavec          |
| Helen Bottum, guest    | David Klostermeyer      |
| Steve Kathol           | Scott Gilliland         |
| Ed Thiele              | Jeff Kopocis            |
| Bob Kalinski           | Dan Owens               |
| Loras Klostermann      | Joe Sherrard            |
| Mark Stark             | Tom Strauss             |
| Joe Waxse              | Nelson Jacobs           |
| Rick Kaufmann          | Matt Kralik             |
| Aaron Gaul             | Nathan Dickerson        |
| Dan Mahrt              | Vince Drieling, student |
| Brad Levich            | Aaron Grote, student    |
| Bob Lapke              | Mary Renken, student    |
| Susie Jorgensen        | Weston Ensel, student   |
| Steve Jorgensen        | Jeff Riesberg, guest    |
| Brian Erickson         | Jim Schwamman, guest    |

The 21st Annual Structural Conference was held the following day in downtown Omaha. Thanks to Dr. Krause for organizing another great meeting and to the Structural Committee for planning the conference.

Our web address has changed!  
The new URL is

**www.neasce.org**

Be sure to update your bookmarks

## Attention Younger Members (And All Who Know A Young Engineer)

By Rick Kaufmann, Nebraska ASCE Newsletter Editor

I had the opportunity to attend this year's Younger Member Leadership Symposium at the Civil Engineering Conference and Exposition in Houston. Younger Member Groups (YMG's) have sprung up in sections and branches across the country, and are enjoying much success. Typically, the YMG's membership includes college students, recent graduates, and young engineers who are 35 years of age and under. The major objectives of these groups are:

- To provide networking opportunities for young engineers by getting to know their peers in the industry
- To interact with schools and the general public to promote civil engineering
- To work with the student chapters to help graduates make a smooth transition to the professional section
- To enhance career development

All of these are admirable goals. At the Symposium, the point was raised that typical membership in organizations such as ASCE, especially in leadership positions, tends to consist of older, more experienced engineers, who have perhaps more available free time, as opposed to younger engineers with small children, classes, longer work weeks, more active social lives, or less money. Younger engineers also may not recognize the value in participating in ASCE as much as their older counterparts, and thus would not make it a priority.

While we should respect our elders, interact with them frequently, and consider them invaluable sources of wisdom and knowledge, it is also important to interact with our peers. This is where the Younger Member Group comes in. The Nebraska Section recently established a Younger Member Committee, led by chair **Ryan Paradis**. To date, the Nebraska Section YMG has organized two successful site visits to the Tower at First National Center. In the coming months, we hope to recruit several younger members to assist with "Building Big" presentations in local schools. I will have some information and tips for making these presentations to a notoriously difficult audience (5th - 8th graders) which I obtained at the Symposium. But the YMG should be more. Some of the events other YMG's are holding include technical meetings, professional development meetings, happy hours, and various volunteer activities throughout the year, a tailgate for the football game, golf tournaments, Habitat for Humanity projects, engineering project tours, and study groups for the licensing exam.

However, we need your help to establish a successful and vital YMG in our Section, from both young and not-so-young engineers. If you meet the above criteria for younger members (or are close...we won't be checking ID's), join the Younger Member Committee to begin planning some of these events (contact Ryan Paradis at [rparadis@hdrinc.com](mailto:rparadis@hdrinc.com)). We need ideas, help planning events, and help promoting events. If you do not fall under the "YM" criteria, you can help by encouraging your younger coworkers to participate. I also encourage those of you who are principals or supervisors to provide time and resources to assist your young engineers in getting involved. (I'm fortunate to work for a company that encourages ASCE membership and active involvement) Stay tuned to this newsletter for updates and meeting information.

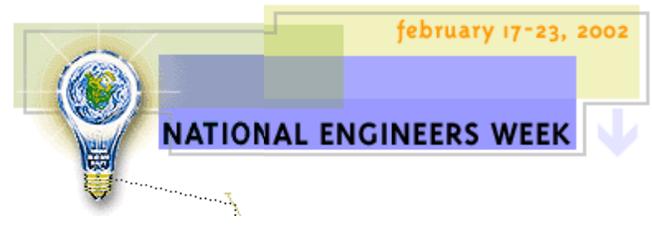
## The West Point Bicentennial Engineering Design Contest November 11, 2001 – February 28, 2002

The United States Military Academy at West Point, the nation's first engineering school, is sponsoring a nationwide engineering design contest for U. S. students in Grades K through 12.

Learn about engineering, earn national recognition, and win valuable prizes! Anyone can participate in this contest, but only eligible contestants — U. S. students in Grades K through 12 — may compete for prizes. Contestants may compete individually or in teams of two.

The contest begins on November 11, 2001. For more information and complete contest rules, visit <http://bridgecontest.usma.edu/>.

This contest was developed by the [United States Military Academy](#), West Point, New York, to commemorate its Bicentennial, and is sponsored by the [American Society of Civil Engineers](#) in celebration of its 150th birthday.



The biweekly **ASCE E-Newsletter** is your gateway to the latest information about the American Society of Civil Engineers as well as news from the world of Civil Engineering. It can now be found on the Nebraska Section's website. Just go to [www.neasce.org](http://www.neasce.org) and click on the *News* link.

In the October 5 issue:

- \* 2002 ASCE Bridges Calendar Now On Sale
- \* ASCE Names 2001 Excellence in Journalism Winner
- \* 2001 Membership Drive Winners Announced
- \* This Week in Washington: Economic Stimulus Package Being Considered
- \* Book of the Week: Collective Excellence: Building Effective Teams, Second Edition
- \* Lifelong Learning: Evaluating Your Organization's Risk Management and Business Continuity Program
- \* CERF Side: Designing and Managing Vulnerability Conference in the Works
- \* Institutes Info: CI AND EWRI Updates
- \* Conference of the Week: 2002 International Air Transportation Conference
- \* Take Note: Resources and Information Available on ASCE Web Site



## National Engineers Week Future City Competition™

### Engineer Mentors: Helping Young People — And Others — Better Understand The “Stealth” Profession

Engineer mentors who volunteer for the 2002 National Engineers Week Future City Competition™ will help introduce a new generation of young people to the essence of engineering. At the same time, however, they'll be sharing that message with a much larger audience, as schools, teachers, parents, businesses, and local and national media get involved with this increasingly popular educational effort.

Engineering is sometimes called the stealth profession. For all the good that engineers do, most people rarely consider the critical role they play in society. That makes the Future City Competition, now in its tenth year, an ideal way to showcase the many facets of engineering, its challenges and rewards. And, not coincidentally, it allows engineers a chance to shine as individuals, too.

The Future City Competition invites seventh- and eighth-grade students — working in teams of three under the guidance of a teacher and engineer — to design a city of tomorrow, first on computer and then in large, three-dimensional scale models. Beginning at the school level, and then in regional competitions across the United States, the student teams vie for a chance to win a free trip to Washington for the national finals. Using SimCity 3000 software donated free to every participating school by Maxis Corporation of Walnut Creek, California, students plan and design their city through the fall and then build their models in December and January. Regional competitions are held in January, with national finals during National Engineers Week, February 17-24, 2002.

Besides building the models, which are often dazzling, and defending their city's design at the competition, the Future City program also calls on the teams to write abstracts and essays about their city. The 100-to 200-word abstract describes how each city operates. Developments such as communication chips implanted under every citizen's fingernails at birth and solar powered monorails were just two of the more intriguing ideas proposed by students at the 2001 competition.

The 300- to 500-word essay gives young people a chance to test their mettle with different topics each year. The essay for the 2002 competition will explore the environment, requiring students to explain how their particular city design deals with conservation, recycling, pollution controls and other important ecological issues.

At every stage of the process, mentors engage the students to work as a team, solve problems, overcome obstacles and achieve success — in short, the very things engineers do for a living. They also help the students “keep it real,” to borrow a Gen Y phrase, by ensuring that every contrivance, innovation, and invention is based on sound engineering principles. A team that wants a wind-generated power source to run their city, for example, must face the consequences of that decision, such as budgeting sufficient city funds to pay the higher initial building costs. If a town is dependent on a series of transmission towers for its communications system, the students must also

make back-up plans in case the towers are destroyed in a natural disaster.

In the end, the students learn the basics of engineering and they learn it from a pro, someone who can reveal the profession's nitty-gritty in a way that helps these young people achieve their goals and gain valuable insights on a profession they might otherwise miss.

Last year, 25 regions held competitions, reaching more than 26,000 students. In 2002, the competition is expected to expand to 8 additional areas.

The Future City Competition is sponsored by the National Engineers Week Committee, a consortium of engineering societies and major U.S. corporations, in 2002 co-chaired by the American Society of Civil Engineers (ASCE) and DuPont. The national champion team receives a free trip to U.S. Space Camp in Huntsville, Alabama, donated by the National Engineers Week Committee. The second-place team receives a large cash grant for the school's technology program, donated by the Society of Manufacturing Engineers. A scholarship for the third-place team's school technology curriculum is provided by The National Society of Professional Engineers. Nearly 20 special awards are also presented by various engineering societies, corporations, and government agencies. Other prizes are awarded at the regional competitions.

For more information on volunteering as an engineer mentor for the Omaha regional Future City Competition, please contact **Kirby Woods** at 533-6550 or [futurecity@neasce.org](mailto:futurecity@neasce.org). Also, visit [www.futurecity.org](http://www.futurecity.org) for more info.

### A Note from the Editor

The deadline for the October edition of *The Nebraska Civil Engineer* is September 28. Send ideas for items that could be included in this newsletter, articles, or information to:

ASCE Newsletter Editor  
c/o Rick Kaufmann

Terracon

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email address: [editor@neasce.org](mailto:editor@neasce.org)

The Section's website can be found at

**[www.neasce.org](http://www.neasce.org)**

Direct any items of interest or comments to the Section Webmaster, **Brad Chambers**, at (402)444-6866 or [webmaster@neasce.org](mailto:webmaster@neasce.org). These can include job position postings, RFP's, corporate news releases, editorials, articles, or photos of ASCE-related events. We send out notices, reminders and an electronic copy of this newsletter via email. To be included in our email database, email Brad Chambers at the above address.

### **CHANGE OF ADDRESS?**

Please notify ASCE national of any address changes by calling 1-800-548-ASCE (2723) or contact them through their web site at [www.asce.org](http://www.asce.org). Address changes made at the national ASCE office are updated monthly at your local Nebraska Section.



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