

# THE NEBRASKA CIVIL ENGINEER



OFFICIAL PUBLICATION OF THE NEBRASKA SECTION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS

**Volume L**

**November 2002**

**Number 3**

## 2002-2003 NE-ASCE

### Officers

**President** Brad Levich, P.E.  
Terracon  
(V) (402) 466-3911, (F) (402) 466-0811  
balevich@terracon.com

**President-Elect / Program & Annual Meeting Committee Chair / Management Committee Chair**

Mark Stark, P.E.  
Olsson Associates  
(V) (402) 474-5913, (F) (402) 474-516  
mstark@oaconsulting.com

### **Vice President**

Loras Klostermann, P.E.  
Thompson Dreessen & Dornier  
(V) (402) 330-8860, (F) (402) 330-5866  
lklostermann@td2co.com

**Past President** Bob Kalinski, P.E.  
RDG Geoscience & Engineering  
(V) (402) 894-2678, (F) (402) 894-9043  
rkalinski@rdgge.com

**Secretary** Tom Marnik, P.E.  
Lamp Rynearson & Associates  
(V) (402) 496-2498, (F) (402) 496-2730  
tom-m@lra-inc.com

**Treasurer** John Hill, P.E.  
Lamp Rynearson & Associates  
(V) (402) 496-2498, (F) (402) 496-2730  
john-h@lra-inc.com

**Director / Geotechnical Technical Chair**  
Ed Prost, P.E.  
Terracon  
(V) (402) 330-2202, (F) (402) 330-7606  
edprost@terracon.com

**Director** Reed Schwartzkopf, P.E.  
ESP  
(V) (402) 421-2500, (F) (402) 421-7096  
reed@espeng.com

**Webmaster** Brad Chambers, E.I.T.  
HWS Consulting Group, Inc.  
(V) (402) 333-5792, (F) (402) 333-2248  
webmaster@neasce.org

**Newsletter Editor** Rick Kaufmann, E.I.T.  
Terracon  
(V) (402) 330-2202, (F) (402) 330-7606  
rkaufmann@terracon.com

## Meeting Information (NOTE - LUNCH MEETING)

**DATE: Thursday, November 21**

**HOST:** Management Group  
Nebraska Section ASCE  
(Mark Stark, Chair)

**TOPIC:** "Current Conditions and  
Happenings in D.C."

**SPEAKER:**  
**Tom Janssen**  
**State Director,**  
**U.S. Senator Chuck Hagel**

**TIMES:**  
**11:30-12:15**.....Social Time/Lunch  
**12:15-1:00**.....Speaker  
**1:00**.....Adjourn

**LOCATION:**  
**El Bee's**  
10402 South 144th Street  
Omaha, Nebraska

(Order off the menu)

**If you are receiving this newsletter for the first time this term, you have not paid Section dues with your ASCE Renewal. Please check the Section Dues box on your 2003 renewal, and support the Nebraska Section.**

## DINNER RESERVATIONS

*RSVP by noon on  
Monday 11/18/02*

Contact Loras Klostermann in Omaha at  
330-8860 or [lklostermann@td2co.com](mailto:lklostermann@td2co.com)

or

Rose Jones in Lincoln at 458-5603  
or [RJones@OAConsulting.com](mailto:RJones@OAConsulting.com)

## Tom Janssen

**State Director,**  
**United States Senator Chuck Hagel**

Tom Janssen began his career with Senator Chuck Hagel as the Organizational Director for Hagel's United States Senate campaign in 1996. Janssen was responsible for organizing all of Nebraska's 93 counties to form Hagel's grassroots support. The organization that Janssen headed has been noted by Nebraska political leaders as one of the best in the history of Nebraska politics.

Janssen now serves as Senator Hagel's State Director. He is responsible for managing and leading Hagel's four state offices in Scottsbluff, Kearney, Lincoln and Omaha. Tom's duties include managing staff and office operations, traveling throughout Nebraska representing Senator Hagel and meeting with constituents.

Prior to working for Senator Hagel, Janssen served in the United States Air Force as a security policeman. He is a Veteran of the Persian Gulf War. Among his military Decorations are: The Kuwait Liberation Medal, Air Force Good Conduct Medal, Air Force Outstanding Unit Award, Southwest Asia Service Medal with 2 Bronze Service Stars, and the Air Force Achievement Medal. He is a member of the American Legion and the Veterans of Foreign Wars.

Janssen is a native Nebraskan. He grew up in Crofton and graduated from Crofton Community High School. He received his degree in Communications Studies from the University of Nebraska-Lincoln in 1994. Tom currently lives in Omaha.

# President's Comments



Brad Levich, P.E.  
NE-ASCE President

Greetings fellow ASCE members! Last month's meeting was a real success! It was another great team of speakers. Susan Jorgensen and James Fisher provided a look at the challenges of construction of an addition over the existing Immanuel Hospital while maintaining the hospital services. This was a huge challenge due to the need for additional support columns extending through the existing structure.

I'd like to thank Marti Cieslik, Chair of the Construction Group, for arranging another great meeting. It was also great to see students at the meeting.

Mr. Mark Stark, Chair of the Management Group, has arranged a noon meeting at El Bee's on November 21, 2002. This will be the first afternoon meeting in many years. The board agreed to try an afternoon meeting this year. If we have a good attendance we may try to have a couple of afternoon meetings a year. The speaker for this meeting will be Mr. Tom Janssen, State Director for U.S. Senator Chuck Hagel. Hope to see you all there.

Mr. Ed Prost, Jr. P.E. (Geotechnical Committee Chair) indicated that the Geotechnical Committee has decided to give \$1000 per year to a University of Nebraska student, in the form of The Peck-Benak / Nebraska ASCE Geotechnical Scholarship. The student will have to meet the following criteria:

- Have an emphasis in geotechnical engineering,
- be a Student Member of ASCE, and
- be full time student.

First priority will be given to Juniors and Seniors, and the committee will consider geotechnical internships in their selection.

We still need a volunteer to take over the newsletter editor position. Please contact me if you would be interested in becoming involved in ASCE. In addition, I would like to encourage any member who would like to participate on any committee to call any committee chair or me. With your help we can provide better programs and increase participation in the Society and promote Civil Engineering.

The Nebraska Section will not have a program meeting or newsletter for December. Therefore, I would like to take this opportunity to extend my warmest wishes to all of you and your families for a joyous Holiday Season.

*Bradley A. Levich*

# 2002-2003 Important Dates

## November:

- 3-7 - Washington DC 2002 - Civil Engineering Conference & Exposition
- 7-8 - ACI / PCA Seminar: ACI 318-02 Building Code, Omaha
- 21 - MONTHLY MEETING (Hosted by Management Group), Omaha
- 18-19 - NSBA / NaBRO Steel Bridge Design Seminar, St. Louis, MO

## December:

- 11-13 - 2002 FHWA Steel Bridge Conference, Salt Lake City, UT

## January:

- 23 - MONTHLY MEETING (Co-hosted by Water Resources Group and Univ. of Nebraska-Lincoln Student Chapter), Lincoln

## February:

- 20 - MONTHLY MEETING (Hosted by Geotechnical Group), Omaha
- 21 - Annual Geotechnical Conference, Omaha

## March:

- 20 - MONTHLY MEETING (Hosted by Environmental Group), Lincoln

## April:

- 17 - MONTHLY MEETING (Co-hosted by Transportation Group and Univ. of Nebraska-Omaha Student Chapter), Omaha

## May:

- 16 - ANNUAL MEETING

## **ASCE MEMBERS WIN BY RENEWING EARLY**

**YOU COULD BE THE NEXT WINNER!**

Renew your ASCE membership by December 1, 2002 to be eligible to win a laptop PC, a Palm Pilot or other attractive gifts and be entered in the December 14 drawing.

Renew by December 14, 2002 and you could win a Palm Pilot or one of many other attractive gifts.

NOTE: By renewing online you will be entered in each drawing twice so you double your chances of winning in each category. Renew online at [www.asce.org/renewal/](http://www.asce.org/renewal/)

In many cases members intend to renew but procrastinate or inadvertently forget to return their renewal payment. This seemingly minor oversight costs ASCE thousands of dollars each year in printing and mailing fees. Thus, ASCE continues the Early Renewal Drawing.

**Student membership is FREE**

**Remember to check the Section Dues box and help support the Nebraska Section.**

# ASCE National News

## ASCE Calls for Comment on Proposed Standard

Media Contact: Lindsay Keller  
tel: 202-326-5131  
[lkeller@asce.org](mailto:lkeller@asce.org)

October 2, 2002

Reston, VA. - The American Society of Civil Engineers (ASCE) is calling for public comments on its proposed standard, the Regulated Riparian Model Water Code, which would essentially treat water as public property to be managed by a public agency rather than individual users. The standard reflects the approach adopted in Hawaii and approximately half of the states to the east of the Mississippi River to reform the traditional law of riparian rights. ASCE will conduct a public ballot period for the new standard October 7 - November 20, 2002.

The proposed water code addresses the direct use of water only; for example, ordinary household purposes, including immediate human consumption (including sanitation and washing); the watering of animals held for personal use or consumption; and home gardens and lawns. It also speaks to the difficult question of multi-jurisdictional transfers of water, whether across a water basin boundary or across a state line. It does provide some provisions for the coordination of the regulation of all human activity relevant to the waters of the state, but the code does not address directly human activities other than direct uses that, often unintentionally, despoil the waters of the state.

Riparian rights are the basic water law for the states east of Kansas City and in Hawaii. This code addresses concerns arising in the transition from common law riparian rights to a regulated system of rights that are still based on the riparian water rights tradition. "It is an important step in developing a model for those states to consider," said ASCE President H. Gerard Schwartz, Jr., Ph.D., P.E., F.ASCE. "Requesting public comment on the proposed model code is essential to the consensus process used by ASCE in developing its standards."

The public comment process is one of the final stages of the consensus standards development process. ASCE will review and address all comments submitted through the public ballot. To obtain a copy of the public ballot and standard, send a written request accompanied by a \$10.00 check or money order made payable to ASCE, c/o Kimberly Brubaker, Standards Coordinator, 1801 Alexander Bell Drive, Reston, VA, 20191. Payment must accompany the request. ASCE will not accept facsimile requests.

## DEMOGRAPHICS AND INDUSTRY EMPLOYMENT OF CIVIL ENGINEERING WORKFORCE

**By Neil S. Grigg, Fellow, ASCE**

This paper provides a road map to studies and databases about civil engineering demographics and industry involvement by tracing workforce statistics, engineering degrees, data on industries and government, and economic forecasts. It is aimed at helping civil engineering managers, educators, and policy makers understand how their workforce evolved and what it will face in the future.

The paper is available for download at

**<http://www.asce.org/pdf/Grigg.pdf>**

## An ASCE Journals Special Publication Vulnerability and Protection of Infrastructure Systems: The State of the Art

The Critical Infrastructure Response Initiative (CIRI) was approved by ASCE's Board of Directors in October 2001. Through the CIRI, ASCE will play a leading role in addressing infrastructure vulnerability and in developing strategies and guidelines for mitigating the effects of natural and man-made disasters on critical elements of the nation's infrastructure.

To that end, ASCE offers a new digital product, Vulnerability and Protection of Infrastructure Systems: The State of the Art, an electronic compendium of 24 seminal ASCE journal articles (in PDF format) on such topics as assessment of infrastructure vulnerability; infrastructure renovation based on the results of vulnerability assessments; research and development directions that will help to protect critical elements of infrastructure; retrofit of designs to mitigate disaster damage; new design procedures, including codes and standards; and disaster preparedness and response procedures. Also included is a special foreword by ASCE President H. Gerard Schwartz, Jr., and an overview article, 'Risk, Vulnerability, and Protection of Civil Infrastructure,' prepared especially for this compilation by Samer Madanat, editor of ASCE's Journal of Infrastructure Systems.

The following is just a sampling of the articles included:

*"Why Did the World Trade Center Collapse? ..."*

*"Operation of Airport Security Checkpoints ..."*

*"Blast Resistant Design of Commercial Buildings"*

*"Reducing Vulnerability of Water Supply Systems to Attack ..."*

*"Protecting Buildings Against Vehicle Bomb Attacks"*

*"Model Disaster Response Planning"*

Upon purchase of the collection, you will have access to the PDF of each article for a period of sixty (60) days from the time of purchase. Please visit <https://ascestore.aip.org/> for additional details, pricing information, article abstracts, and information on accessing the articles.

## **ACI NEBRASKA CHAPTER** **2003 AWARDS**

The ACI Awards Committee is currently accepting nominations for the Tom Reading Achievement Award and the Award of Excellence for the use of concrete in Nebraska. These awards will be presented during the 2003 Annual Awards Banquet.

Application forms to nominate an individual for the Tom Reading Award, or a project for innovative use of concrete for the Awards of Excellence can be found on the ACI Nebraska Chapter website at [www.acinebraska.org](http://www.acinebraska.org).

Last year many outstanding projects were submitted, and we look forward to receiving many more this year. Please take the time to nominate a deserving individual or an outstanding project from our state by December 15, 2002.

If you have any questions, please feel free to contact me any time at (402) 649-5068.

Mike Willman, Chair  
ACI Nebraska Chapter -Awards Committee

## **Last Month's Meeting**

Thirty-two people attended the Construction meeting held at El Bee's on Oct. 24 to hear Susan Jorgensen and Jim Fisher talk about the Immanuel Hospital Addition. Thank you to first-time organizer Marti Cieslik, Construction Technical Chair.

Paul Gonzalez	Katie Heyd (UNL Student)
Dan Mahrt	Ray Moore
John Hill	Daren Konda
Mark Stark	Lindsay Madsen
Mike Naccarato	Virgil Olegmueller
Susan Jorgensen	Steve Bottum
Brock Beran	Helen Bottum (guest)
Brad Levich	Ed Prost
Marti Cieslik	Steve Kathol
Brian Erickson	Nate Dickerson
Jim Fisher (speaker)	Ed Thiele
Brad Chambers	Tom Strauss
Sandi Keehn	Mike Langer
Jeremy Schnoaljohn	Dan Owens
(student)	Jeremy Bowers (UNL student)
Mike Baumert	Jimmy Harding (UNL student)
Loras Klostermann	



This Week  
in  
Washington



Check out the Nebraska Section's website for these weekly news updates from ASCE, and much more.

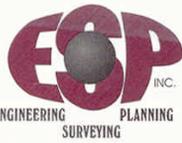
Visit [www.neasce.org](http://www.neasce.org)

## **A Note from the Editor**

The deadline for the January edition of *The Nebraska Civil Engineer* is December 30. Send ideas for items that could be included in this newsletter, articles, or information to:

ASCE Newsletter Editor  
c/o Rick Kaufmann  
Terracon  
2211 South 156th Circle  
Omaha, NE 68130-2506  
Office No.: (402)-330-2202  
Fax No.: (402)-330-7606  
email address: [rakaufmann@terracon.com](mailto:rakaufmann@terracon.com)

Update your mailing address, phone number, or email address at [www.asce.org/myprofile](http://www.asce.org/myprofile) or call 1-800-548-2723



601 Old Cheney Road  
Suite A  
Lincoln, NE 68512  
Ph: (402) 421-2500  
Fax: (402) 421-7096

Vision for the future



**THOMPSON, DRESSEN & DORNER, INC.**  
Consulting Engineers & Land Surveyors

10836 Old Mill Road  
Omaha, Nebraska 68154  
Telephone (402) 330 - 8860

**DAVIS RECTION COMPANY**

STEEL & PRECAST ERECTION  
CONCRETE REINFORCING - HEAVY RIGGING

Omaha, Nebraska



Michael A. Naccarato PE  
Project Manager/Structural Engineer  
5910 S 27th Street • Omaha, NE 68107  
Office: 402-738-6160 • Fax: 402-731-1116  
Mobile: 402-306-2005 • Nextel: 191-2000877  
www.cranerent.com • mnaccarato@cranerent.com

www.schemmer.com



THE  
**SCHEMMER**  
ASSOCIATES  
Architects Engineers

402.493.4800



United We Stand

**Olsson Associates**  
engineers planners scientists surveyors  
1111 Lincoln Mall • Lincoln, NE 68508  
402.474.6311 • fax 402.474.5160

LINCOLN, NE  
OMAHA, NE  
GRAND ISLAND, NE

HOLDREGE, NE  
SOUTH SIOUX CITY, NE  
KANSAS CITY, MO

PHOENIX, AZ  
DENVER, CO

www.oaconsulting.com



**Lou Sobczyk, P.E.**  
Sales Manager  
(Engineer)

**KATELMAN FOUNDRY INC.**  
230 South 11th Street • Council Bluffs, Iowa 51501

PHONE (712) 323-3131 FAX (712) 323-3154

**hgm**  
ASSOCIATES INC.

ENGINEERS ARCHITECTS SURVEYORS

"Turning Visions... Into Reality"

5022 S. 114<sup>TH</sup> Street, Suite 200  
Omaha, NE 68137  
(402) 346-7559 (800) 332-1005  
www.hgmonline.com

**GeoSystems / KLEINFELDER**  
an employee owned company

9312 G Court, Omaha, Nebraska  
(402) 331-2260/2346 fax (800) 930-4960  
www.geosystemseng.com

**NIELSEN-BAUMERT ENGINEERING, INC.**  
Structural Engineering Analysis and Design

Michael F. Baumert, PE., S.E.  
Principal

9802 Nicholas Street, Suite 105 • Omaha, NE 68114  
Phone: (402) 496-4750 • Fax: (402) 496-1147

**Integrated Resources for Responsible Solutions**



EA Engineering, Science, and Technology, Inc.  
121 South 12th Street, Suite 204  
Lincoln, NE 68508  
Telephone: 402-476-3766  
Fax: 402-476-7825  
www.eaest.com

IN-SITU GEOTECHNICAL ENGINEERING

THOMAS V. STRAUSS, P.E.  
President and Principal Engineer

Geotechnical Investigations  
Slope and Retaining wall Analyses  
Geotechnical Services  
Geotechnical Drilling  
Soil Laboratory Testing  
Construction Testing Services

14730 Weir Street  
Omaha NE 68137  
Ph: 402-614-6957  
Fax: 402-614-6957  
Mob: 402-201-4109  
Email: TS64436@attel.net



Practical Solutions with Superior Service

Omaha • 402.339.6104  
Grand Island • 308.381.1987  
Lincoln • 402.466.8154

www.gsiretwork.com

Geotechnical Engineering, Materials Testing & Environmental Consultants

A great place to work since 1946



**KIRKHAM MICHAEL**  
Consulting Engineers

Check out www.Kirkham.com for local and national job opportunities



A.S.P. ENTERPRISES, INC.  
Your GeoSource Distributor

9840 S. 140th Street, Suite 5 & 6 • Omaha, NE 68138  
402.861.8579 • 402.861.8592 Fax • 877.678.8027

Geosynthetics:  
Geotextiles/Geogrids  
Geoweb • Drainage

Erosion Control:  
Gabions • Blankets

T.C. Mirafi • North American Green • Presto Products • A.D.S.



Transportation Engineering Services

Roadway, Traffic, Environmental Planning and Track Design  
Roadway and Rail Bridge Design  
Field Surveys  
and Construction Management

kjmichel@transystems.com  
(402) 895-5400  
Fax (402) 895-500

5332 So. 138th St. - #300  
Omaha, NE 68137  
www.transystems.com



Quality Materials to Build America's Future  
Count on Concrete

Ready Mixed Concrete Co.  
Gerhold Concrete Company, Inc.  
Lyman Richey Sand & Gravel Company  
Central Sand and Gravel Company  
United Products Company

General Offices:  
4315 Cuming Street  
Omaha, NE 68131  
Phone (402) 558-2727  
www.lymanrichey.com

L U M B E R M E N ' S



EROSION CONTROL  
& GEOSYNTHETICS

(402) 894-2222 FAX (402) 894-2262  
jfunk@lumbermens-omaha.com  
spudenz@lumbermens-omaha.com

nebraska's locally owned  
erosion control and geosynthetics supplier



Geotechnical  
Material  
Environmental  
Engineering

**THIELE GEOTECH, INC.**  
13478 Chandler Road  
Omaha, Nebraska  
68138  
402/556-2171  
Fax 402/556-7831

Engineering Support  
Responsive To Your Needs!

Geotechnical Exploration Construction Materials Testing  
UBC Special Inspections Segmental Retaining Wall Design  
Site Evaluation Phase I & II Environmental Site Assessments

www.thielegeotech.com

info@thielegeotech.com

architecture ■ engineering ■ interior design ■ planning

**DLR Group** www.dlrgroup

402.393.4100



Over 58 Years of Solutions Through Service to Improve the Quality of Life



Transportation Engineers • Geotechnical Engineers  
Municipal and Public Works • Environmental Services  
Construction Services

Lincoln, Nebraska  
402.479.2200 • FAX 402.479.2276  
hwsinfo@hws-con.com

Omaha, Nebraska  
402.333.5792 • FAX 402.333.2248  
hwsoma@hws-con.com

www.hws-con.com  
Offices also in Manhattan, KS; Chicago, IL; and Denver, CO

**URS**

12120 Shamrock Plaza  
Suite 300  
Omaha, NE 68154  
Phone (402) 334-8181  
Fax (402) 334-1984

- ◆ Environmental and Pollution Control
- ◆ Hazardous / Solid Waste Management
- ◆ Design and Construction Management
- ◆ Asbestos / Industrial Hygiene Services
- ◆ Indoor Air Quality Consulting
- ◆ Civil Engineering
- ◆ Urban Planning
- ◆ Transportation

**Lamp, Rynearson & Associates**

Engineers - 3D Services - Planners -  
Land Surveying - Construction Administration -  
Geographic Information Systems



www.LRA-inc.com

Professional Services for  
Global Solutions

8404 Indian Hills Drive  
Omaha, NE 68114-4049  
Phone 402 399 1000  
Fax 402 399 1238



**HDR**

ONE COMPANY | Many Solutions™

www.hdrinc.com



**E&A CONSULTING GROUP, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

Omaha, Nebraska  
402-895-4700

Lincoln, Nebraska  
402-420-7217

http://www.eacg.com

**Terracon**

Delivering Success for Clients and Employees

- Geotechnical Engineering
- Environmental Services
- Construction Materials Observation & Testing
- Facilities Engineering
- Pavement & Asset Management

Offices located throughout the  
Central, Southeastern and  
Western United States

Omaha 402.330.2202  
Lincoln 402.446.3911  
www.terracon.com



*Civil Design, Land Planning, Site Development, Surveying*

630 North Cotner Blvd., Suite 105, Lincoln, Nebraska 68505  
Phone (402) 464-4011 Fax (402) 464-4058

For the finest in  
land improvement products call  
**CONTECH® Construction Products**



INNOVATIVE SITE SOLUTIONS & STORMWATER MANAGEMENT

Aluminized ULTRA FLO® Storm Sewer Pipe ■ Corrugated Metal Pipe  
A2000™ PVC Pipe ■ Earth Retention Systems ■ TENSAR® Geogrids  
Geotextiles ■ Sheeting & Erosion Control Products

Bruce Dreessen, Sales Engineer  
Wayne Wendel, Sales Engineer

Phone: 402-330-4170  
Fax: 402-330-6487

**rdg Geoscience & Engineering**

- Geologic Site Characterization
- Water Resources
- Computer Modeling & Imaging
- Environmental Site Assessments
- Environmental Engineering

10360 Sapp Bros Drive  
Omaha, NE 68138  
www.rdgge.com

(402)894-2678  
fax (402)894-9043  
rdgge@rdgge.com

*Thank you to the businesses that support this newsletter through their contributions.*

*For underwriting information, contact Ben Higgins, Fund-Raising Committee Chair, at (402) 441-7589 or  
bhiggins@ci.lincoln.ne.us*

**The Nebraska Civil Engineer**

C/O Dan Mahrt

Terracon

2211 South 156th Circle

Omaha, Nebraska 68130

FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
Omaha, NE  
Permit No. 479