

THE NEBRASKA CIVIL ENGINEER



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

Volume L

March 2003

Number 6

2002-2003 NE-ASCE Officers

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Meeting Information

DATE: **Tuesday, March 18**

HOST: Environmental Group
(Chris Talley, Chair)

TOPIC: "EPA - Regional and National Priorities"

SPEAKER:
Jim Gulliford
Region 7 Administrator,
U.S. Environmental Protection Agency

TIMES:
7:00-7:30.....Social Time
7:30-8:15.....Dinner
8:15.....Meeting & Program

LOCATION:
Country Inn and Suites
5353 N. 27th Street
Lincoln, NE

MENU:
Pasta Primavera - \$17
Chicken Cordon Bleu - \$21
Prime Rib - \$24
Dinners include a salad, dinner roll, a drink
(coffee, tea, or soda), and a dessert item

DINNER RESERVATIONS

RSVP by noon on **Friday 3/14/03**

Contact Loras Klostermann in Omaha at
330-8860 or lklostermann@td2co.com

or

Rose Jones in Lincoln at 458-5603
or RJones@OACConsulting.com

Nebraska Team Wins National Future City Competition in Washington D.C.

(See Page 4)



James B. Gulliford

Region 7 Administrator,
U.S. Environmental Protection Agency

Jim Gulliford has been the Region 7 administrator for the U.S. Environmental Protection Agency since September 13, 2001. As regional administrator, he is the interface between EPA headquarters in Washington and the citizens of Iowa, Kansas, Missouri and Nebraska. That means that while he represents EPA in the four-state region, he also represents the concerns of the region to EPA headquarters.

Jim had 25 years of professional experience administering environmental programs in the agricultural and mining areas before he was appointed regional administrator. He received a bachelor's degree in forestry management and a master's degree in forestry economics and marketing from Iowa State University. He worked at Iowa State University and Southern Illinois University in mine reclamation and environmental protection program areas until 1982, when he became director of Iowa's Department of Soil Conservation. Jim was named director of the Division of Soil Conservation when the Department of Soil Conservation merged into the Department of Agriculture and Land Stewardship.

President's Comments



Brad Levich, P.E.
NE-ASCE President

Cheers,

Wow! February was a great month for Engineering activities. The Eighth-graders at Mission Middle School in Bellevue, Nebraska won 1st Place at the 11th Annual National Engineers Week Future City Competition in Washington D.C. I would like to congratulate the entire team: **Megan Horton, Casey Laski, Mitchell Laski**; teacher **Susan Hester**; and mentor **Lt. Com-**

mander Freddie Bazen on a job well done. Hope to see you at the April meeting.

The 20th Annual Geotechnical Seminar had another outstanding attendance. This was another successful seminar with some great speakers and topics. Hope you did not miss this opportunity. I would like to thank the **Geotechnical Planning Committee** for the hard work organizing this seminar.

The March meeting will be in Lincoln this year. The plans for Grand Island did not come together. Maybe next year. Please plan to attend this meeting.

I attended the Younger Member FAC on Friday February 28, 2003. This event was well attended and I hope that this will encourage more Younger Members to get involved in ASCE. Thanks **Marie Maly** and **Lindsay Madsen** for organizing this meeting.

Last month, I had the opportunity of representing the Nebraska Section at proclamation signing ceremony at the Capitol as **Governor Mike Johanns** proclaimed February 16 though 22 as E-Week in Nebraska. In addition, I attended a proclamation signing by Lincoln **Mayor Don Wesley** at Lefler Middle School. We had an opportunity to talk to students and it was fun.

I would like to encourage everyone to get involved with the **Professional Engineers Coalition**. On Wednesday, March 5, the 2003 Legislative Day will be held at the State Capitol. **Mark Stark** will be looking for another ASCE representative to take over his duties for next year. Please contact Mark if you are interested.

Hope you had the opportunity to attend some of the great events in February. See you at the Environmental meeting.

Bradley A. Levich

2002-2003 Important Dates

March:

11-12 - Bracing of Steel Structures Short Course, Omaha

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

28 - Younger Member FAC, Omaha

April:

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

May:

16 - ANNUAL MEETING, TBA

ASCE
Younger members
Nebraska

Since it was such a hit...

FAC (Friday Afternoon Club)

For all Nebraska Section ASCE Younger Members!

(and Wanna-Be Younger Members, spouses, significant others and friends)

FRIDAY MARCH 28, 2003

4:30pm - ??? (note time change)

DJ'S DUGOUT

114th & Dodge Streets in the
Miracle Hills Shopping Center

636 North 114th St.

Omaha, NE

402-498-8855

Contact Marie Maly or Lindsay Madsen with any questions

(402-493-4800 or mmaly@schemmer.com or lmadsen@schemmer.com)

The Fellowship of the Ring

The **Order of the Engineer** is the roster of engineers in the United States who have publicly accepted the "Obligation of an Engineer." The Obligation is the formal statement of an engineer's responsibilities to the public and to the profession; the Obligation is publicly accepted by an engineer during induction at a Ring Ceremony; and a stainless steel ring is accepted to be worn on the working hand. Please contact Rick Kaufmann at 330-2202 or rkaufmann@terracon.com if you are interested in joining

www.order-of-the-engineer.org

Zone III Younger Member Council Update

By Marie Maly, NE-ASCE Younger Member Group Co-chair

On February 7, 8, and 9, I attended the Zonal Younger Member Council in Dallas, TX. Friday afternoon, we began with all the Younger Members, the Section / Branch Leaders, and the Student attendees together for some general sessions on ASCE, its history, and Policy 465. We also played a few games to acquaint us with the other attendees and their Sections. Saturday, the three groups at the workshop split up for the majority of the day. The Younger Members (YMs) had a presentation about the proposed changes to ASCE's governance structure and a Q&A session on Policy 465 with Jeff Russell of the Task Committee on Academic Prerequisites for Professional Practice (TCAP³). We also had round table discussions on public service, infrastructure security, public awareness, and governance. Also, the Zone III Younger Member Council (YMC) passed three resolutions. The first was in response to a proposal from the Zone I YMC to change the name "Younger Members" to "Future Leaders." The Zone III YMC delegates felt that many YMs are leaders today, so a resolution was passed to continue to be called Younger Members. The second resolution passed states that the Zonal YMC meeting should continue to be held in each Zone, rather than combining the four zones into one large meeting held at the annual conference each fall. The third dealt with the governance proposal currently being considered by the ASCE. The Younger Members were resolved that the Committee on Younger Members should continue and that it would report to the Executive Committee instead of the Council of Vice Presidents (since the VP position would be eliminated in the new structure). The workshop ended on Sunday with closing comments and a Q&A session with Pat Natale (Executive Director), Tom Jackson (President), and Pat Galloway (President-Elect).

If you have any questions or want to hear more about what YMs are doing elsewhere, email me! (mmaly@schemmer.com)

PEC Update

By Mark Stark, President-Elect

On January 26, 2000, representatives from several engineering organizations met to form an alliance known as the Professional Engineers Coalition or PEC. The Professional Engineers Coalition's purpose as stated in Article 2 of the Constitution,

"shall be to coordinate and promote the legislative interests of the constituent organizations represented in the Coalition by providing a unified effort devoted to the advancement of professional, technical, educational, and ethical interests and standards of professional organizations which are engaged in the various branches of engineering."

Three organizations, the American Consulting Engineers Council of Nebraska (ACEC), the Nebraska Society of Professional Engineers (NeSPE), and the American Society of Professional Engineers (ASCE), each submitted membership fees of \$2,000 to form the PEC at the January 26 meeting. By submitting a membership fee of \$2,000, each organization is entitled to a constituent membership and has two voting representatives on all activities of the PEC. A single voting representative can also be obtained by an organization after submitting membership dues of \$1,000.

Associate membership is available for organizations that wish to participate in discussions and to be kept aware of PEC activities. Annual dues for Associate membership are \$100.

The Executive Committee sent Requests for Proposals to professional lobbyists interested in representing PEC and monitoring legislative issues on our behalf. The Committee interviewed four lobbyists and selected the firm of Kissel/E&S Associates. The firm's principal, Gordon Kissel, has been active in the Nebraska Legislature since 1980. PEC formally executed a contract with Kissel/E&S Associates in February of 2000 and Mr. Kissel has been actively pursuing our interests since that time.

For the last two years the top priority for the Legislature has been the state budget and keeping Nebraska solvent. The Legislature is looking at ways to raise funds or the transfer funds from accounts that appear to have excess monies in them. A list of the bills that PEC is watching and presenting testimony on includes:

- **LB453** - Introduced by Senator Aguilar to place a sales tax on services provided by Engineers, Architects, and Attorneys. The public hearing for this bill was held on February 20th and subsequent conversations with the lobbyist and senators indicate that this bill will be killed in committee.
- **LB 599** – Introduced by Senator Tyson to place limitations on the size and costs of a building construction project for which the services of a registered Engineer or Architect is required. The PEC decided to conditionally support this bill provided that no amendments are added when it reaches the floor for debate.
- **LB135** – Introduced by Senator Thompson to change the allocation of the Highway Trust Fund. This bill takes five percent of the monthly allocation to the Highway Trust Fund and transfers it to the Nebraska State Patrol Cash Fund for four years (FY2003 to FY2006). The State Patrol's Cash Fund currently is allocated from the General Fund.
- **LB639** – Introduced by Senator Schrock to transfer \$3.0 million from the Highway Trust Fund to the Nebraska Environmental Trust Fund each year for two fiscal years (FY2003-FY2004 and FY2003-FY2005).
- **LB639** – Introduced by Senator Schrock to transfer \$500,000 funds from the Highway Trust Fund to the Nebraska Resource Developmental Fund each year for two fiscal years (FY2003-FY2004 and FY2003-FY2005).
- **LB780** – Introduced by Senator Beutler to transfer an amount equal to one-half the sales and use taxes derived from motor vehicles, trailers, and semitrailers from the Highway Trust Fund to the General Fund for two fiscal years (FY2003-FY2004 and FY2003-FY2005).

The hearings for all of the bills attacking the Highway Trust Fund are scheduled in March so we will be looking your help by writing or e-mailing your state Senator. Senator Thompson sponsored four bills last summer attempting to use funds from the "untouchable" Highway Trust Fund. One bill out of the four passed taking \$14.4 million from the Trust Fund. Half of that money came from the State side portion of that account and the remaining \$7.2 million came from the local share (Cities and Counties). That has a direct impact on your local public works department as well as reducing the amount of maintenance and construction that can be accomplished at the state level.

Your voice does count and we need your help. You can contact your state senator on the Internet at www.unicam.state.ne.us. If you have any questions or want to become involved in PEC, please contact me at (402) 458-5616 or by email at mstark@oaconsulting.com.

MISSION MIDDLE SCHOOL IN BELLEVUE, NEBRASKA WINS 2003 NATIONAL ENGINEERS WEEK FUTURE CITY COMPETITION

WASHINGTON, February 19 -- A city of the future -- "Candeo Glacia" -- designed by students from Mission Middle School in Bellevue, Nebraska, has won the eleventh annual National Engineers Week Future City Competition™. Students Megan Horton, Casey Laski and Mitchell Laski (yes, they are twins) teamed up with their teacher Susan Hester and engineer mentor Lt. Commander Freddie Bazen of the U.S. Navy. Candeo Glacia, located on the South Carolina coast, offers unlimited opportunity, high quality living and innovative technology. Its name means "glowing ice," referring to the hydrogen fuel extracted from underwater methane deposits. (A complete description of the city can be found at the end of this release.)

Winning teams from 30 regional competitions held in January participated in the competition that took place Monday through Wednesday, February 17 to 19 at the Hyatt Regency Capitol Hill in Washington, D.C., in the midst of one of the largest snowstorms ever to hit the region. More than 30,000 students from more than 1,000 schools participated nationwide.

The competition asks students to create -- first on computer and then in large 3-D scale models -- their visions of the city of tomorrow. Students work with engineer mentors who help guide the youngsters through the rigors of building a functioning city. Using SimCity 3000™ -- donated by Maxis, a software firm in Walnut Creek, Calif. -- the students fabricate a metropolis from the ground up, balance a city budget and deal with social issues and solve intricate problems of math, science, and technology along the way. Then they present and defend their city to engineer judges at the competition, write an essay about how biotechnology can be used to solve pollution problems, and an abstract describing their city and its services.

The winning team receives a free trip to U.S. Space Camp in Huntsville, Alabama, donated by national finals host Bentley Systems. The second place team, from St. Thomas More School of Baton Rouge, Louisiana receives \$2,000 for the school's technology program, donated by the Society of Manufacturing Engineers. Third place went to Atascocita Middle School in Humble, Texas which receives a \$1,000 scholarship for their school technology curriculum, provided by The National Society of Professional Engineers. Franklin Middle School from Wheaton, Illinois placed fourth, while St. Mary Parish School in Hales Corners, Wisconsin, finished fifth. All 30 regional winning teams received an all-expense-paid trip to Washington for the finals.

Mission Middle School also took one of the special awards, which were sponsored by various engineering societies, corporations and organizations:

Best Indoor Environment, sponsored by the American Society of Heating, Refrigerating and Air-Conditioning Engineers.

The "People's Choice" award, voted on by all the Future City students, went to Heritage Middle School in Westerville, Ohio. Certificates of Technological Innovation -- a special recognition of the top three teams, were presented by the U.S. Department of Commerce, Technology Administration.

The Future City Competition is sponsored by National Engineers Week, founded in 1951 by the National Society of Professional Engineers to increase public awareness and appreciation of the engineering profession and of technology. Co-chairs for 2003 are the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and Lockheed Martin. The local competition is sponsored by the Nebraska Section.

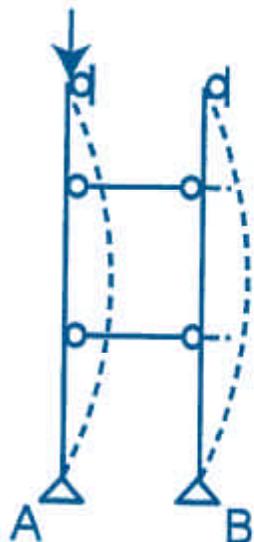


Congratulations to the 2003 National Future City Competition Winners!
Left to right: Mitchell Laski, teacher Susan Hester, Megan Horton, Casey Laski
Not pictured, Engineer Mentor, Lt. Commander Freddie Bazen

Mission Middle School - Bellevue, Nebraska Future City: Candeo Glacia

Candeo Glacia, located on the South Carolina coast, offers unlimited opportunity, high-quality living and innovative technology. Our name means "glowing ice", referring to the hydrogen fuel extracted from underwater methane deposits. Industrial activity centers on hydrogen power production, which is clean and inexpensive. Hydrogen processed from methane hydrate deposits is sold worldwide. Carbon waste from the production process is bioremediated back into the ocean floor in an engineered bioreactor. No cars are found in Candeo Glacia. Transportation is provided by mag-lev trains and our Mobility People Mover. Emergency personnel respond by hovercraft. Engineers designed Candeo Glacia in hexagon-shaped segments containing residential, commercial, and industrial zones, separated to control pollution. This organization provides quick mobility between work, home, and school. Education is top-notch. Schools, libraries, and museums are digitized and provide virtual reality interactions. Student desks are computer/ virtual reality systems. Houses are voice controlled. Refrigerators reorder missing items. Central computer systems control household. Buildings adjust automatically to temperature changes. Building materials resist fire and the building memory metal returns to its original shape after damage. Candeo Glacia looks for fun along a waterfront of shops, restaurants, casinos, and stadiums. Money transfers are done electronically using iris biometric scans.

Short Course 2003
Bracing of Steel Structures



Last chance to attend this informative AISC/SSRC seminar!

Don't miss out!

Presented by:

The American Institute of Steel Construction

and

The Structural Stability Research Council



Philadelphia, PA
 January 7-8

Charlotte, NC
 January 9-10

Omaha, NE
 March 11-12

San Francisco, CA
 March 13-14

Bracing of Steel Structures

This course covers stability bracing for frames, columns and beams with emphasis on simplicity and practicality. The seminar and the 80-page handout document present principles, case studies, and recommendations along with an extensive compilation of design examples. The design methods presented are the basis for bracing provisions that are included in the 1999 AISC Specification. Physical models are used to experimentally verify the design methods.

The short course, sponsored jointly by the American Institute of Steel Construction and the Structural Stability Research Council, was first given to a standing-room-only audience at the National Steel Construction Conference in San Antonio in May 1995. Since then, the program has been presented numerous times throughout the country. Because of the continued high interest, it will be presented in Philadelphia, Charlotte, Omaha, and San Francisco in 2003.

Continuing Education

7.0 Professional Development Hours (PDHs) or
 0.7 Continuing Education Units (CEUs)

Featured Speakers

Joseph A. Yura is the Cockrell Family Regents Chair in Engineering at the University of Texas at Austin. He has been a leader in research and design recommendations for structural stability and bracing, and has received numerous awards and prizes for his expertise.

Todd Helwig is an associate professor of civil engineering at the University of Houston. His interests include an expertise in research in structural stability and bracing and he served as chairman of the SSRC Task Group on Structural Bracing from 1998-2002.

Seminar Locations

Tuesday-Wednesday, March 11-12Omaha, NE
 Clarion Omaha
 4888 South 118th Street
 Tel. 402.895.1000

For more information on these or other AISC seminars, please check the AISC website (www.aisc.org) or email Carol Pivonka at cpivonka@aisc.org.

Short Course 2003
Bracing of Steel Structures

Please mark your location:

<input type="checkbox"/> January 7-8 Philadelphia, PA	<input type="checkbox"/> March 11-12 Omaha, NE
<input type="checkbox"/> January 9-10 Charlotte, NC	<input type="checkbox"/> March 13-14 San Francisco, CA

Seminar Cost:
 AISC and SSRC Members \$200
 Non-Members \$250

Registration

NAME _____		AISC or SSRC MEMBER # (if applicable) _____	
COMPANY _____			
ADDRESS _____		E-MAIL _____	PHONE _____
CITY _____	STATE _____	ZIP _____	FAX _____
NAME _____		AISC or SSRC MEMBER # (if applicable) _____	
COMPANY _____			
ADDRESS _____		E-MAIL _____	PHONE _____
CITY _____	STATE _____	ZIP _____	FAX _____
AISC or SSRC Members _____		\$ \$200 _____	
Non-Members _____		\$ \$250 _____	
Add \$25 to registration fee if registering within 3 days of the seminar.		Total _____	
<input type="checkbox"/> Check (payable to AISC Seminars)		<input type="checkbox"/> VISA	<input type="checkbox"/> MasterCard
CARDHOLDER NAME _____		CARD NUMBER _____	EXPIRATION _____
SIGNATURE _____			

HOW TO REGISTER:
 Pre-registration is recommended. Registration information cannot be taken by phone.
If paying by check:
 Please fax just the registration form to 630.369.3773 and mail copy of registration form and check to: AISC Seminars, LBX 619704, P.O. Box 6197, Chicago, IL 60680-6197.
If paying by credit card:
 Please fax registration form with credit card # and expiration date to 630.369.3773 (fax is secure).
Questions?
 Call 630.369.7784

Handout materials are included. An individual's AISC or SSRC membership number is required to receive discount. **Attendees registering within 3 days of seminar are not guaranteed handouts at the seminar, but will receive them by mail.**
Registration Discounts: For firms or agencies registering three or more people, discount the above fees by \$20 per person.
Payment: Payment by check should be made payable to AISC Seminars. Payment is also accepted using VISA or MasterCard.
Cancellation Policy: Substitutions may be made at any time. Cancellations received less than three business days prior to the seminar are subject to a service charge of \$25.

West Point Bridge Design Contest

As the primary sponsor, ASCE is pleased to offer the second annual West Point Bridge Design Contest. The purpose of this contest is to introduce middle and high school students to engineering. Contest participants must be at least 13 years old at the time of registration and enrolled in middle school or high school in the US. The contest runs from January 11 through April 10, 2003. For more information on this exciting contest and to download the bridge design software go to <http://bridgecontest.usma.edu>.

Advance to Member Grade

If your career has advanced since you first joined ASCE, you're probably eligible for advancement to another membership grade. Once you have received your PE license, you may be eligible to upgrade your membership to Member grade.

You deserve to be recognized as a Professional Engineer, and Member grade is a step in the career of a civil engineering professional. This advancement is also a first step to eventually becoming an ASCE Fellow. Once advancement is approved/completed, you will receive a membership certificate for your new grade.

To ensure that our records are current, please complete an online application at www.asce.org/join, indicating the grade to which you wish to advance. We will contact you if any additional documents will be needed. Or, simply call 800-548- 2723 or 703-295-6300, or email memapp@asce.org for more information.

A Note from the Editor

The deadline for the April edition of *The Nebraska Civil Engineer* is April 3. Send ideas for items that could be included in this newsletter, articles, or information to:

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Office (402)-330-2202/Fax (402)-330-7606
email address: rakaufmann@terracon.com

If you are not receiving regular email updates and monthly meeting announcements, please send your updated email address to Rick Kaufmann at the above address.

Send items of interest for our website -- www.neasce.org -- to Brad Chambers, at webmaster@neasce.org

Last Month's Meeting

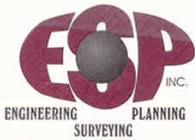


Dr. Jorj Osterberg's presentation, entitled "It Shouldn't Have Happened", drew 58 people to the Geotechnical meeting held at Caniglia's Venice Inn in Omaha on Feb. 20. Pictured above from left: **Ed Prost** (Director / Geotechnical Technical Chair), **Dr. Ralph Peck**, Dr. Osterberg, **Brad Levich** (President), and **Mr. Dick Short**. The attendees were:

Andrew Phillips	Chuck Tiltrum	Dave Svingen
Aaron Buettner	Mark Stark	Kord Wissman
Steve Bottum	Darren Konda	Brad Chambers
Helen Bottum (guest)	Teresa Kub	Rick Kaufmann
Kevin Miller	Joshua Storm	Lok Sharma
Dave Richer	Casey Jones	Ed Keating
Ed Prost	Alex Wu	Dick Short
Brad Levich	Rick Pershall	Steve Saye
Brent Wilkins	Mike Baumert	Brian Havens
Marie Maly	Ray Moore	Ryan Beckman
Corey Bergman	John Zey	Ken Pollard
Dave Hamilton	Michael Barnett	Nathan Dickerson
Ray Hajek	Ryan Paradis	Joe Waxse
Bill Gonzalez	Loras Klostermann	Tom Marnik
Matt Kralik	Steve Nickel	Jorj Osterberg
Steve Scherer(guest)	David Knoepke (student)	Ralph Peck
Loni Nickerson (guest)	Dan Mahrt	Tom Strauss
Jeff Kopocis	Aaron Gaul	Brian Erickson
Patrick Poepsel	Bob Lapke	(One unregistered)
	Jeff Kortan	

The following day, the Nebraska Section's 20th Annual Geotechnical Seminar, **GEO-Omaha 2003**, was held in Omaha. Dr. Peck, Dr. Osterberg, and Mr. Short, as well as **Dr. Donald Bruce**, **Mr. Steven Scherer**, **Dr. James Long**, **Mr. Arturo Resse-Di Cervia**, and **Mr. Joe Waxse** presented at the seminar. A major theme was reflecting on the past and present of the geotechnical field, and on some new innovations already applied in Europe. Other topics covered were the design, testing and installation of micropiles, and load testing of drilled shafts with the Osterberg load cell, including local experience with this technology.

For once, Mother Nature cooperated and no snow fell. As in past years, a portion of the proceeds from the seminar will be donated to the Peck-Benak Geotechnical Scholarship. Thank you to Ed Prost and the Geotechnical Committee for organizing the outstanding dinner meeting and successful conference.



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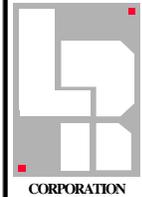
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