

THE NEBRASKA CIVIL ENGINEER



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Volume L

February 2003

Number 5

2002-2003 NE-ASCE Officers

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ASCE American Society of Civil Engineers Nebraska Section presents

20TH ANNUAL GEOTECHNICAL SEMINAR

GEO-Omaha 2003

February 21, 2003 - Kiewit Conference Center
Omaha, Nebraska

The annual geotechnical seminar provides a forum for the presentation of a wide variety of geotechnical field, design, and construction-related topics. This year we are honored to have as presenters **Dr. Ralph Peck, Dr. Jorj Osterberg, Dr. Donald Bruce, Mr. Steven Scherer, Dr. James Long, Mr. Arturo Ressi-Di Cervia, Mr. Dick Short, and Mr. Joseph Waxse**. Please join us for what promises to be an interesting and informative program. A certificate verifying 7.5 Professional Development Hours will be provided to registered attendees. See enclosed brochure for more information.

Meeting Information

DATE: Thursday, February 20

**HOST: Geotechnical Group
(Ed Prost, Chair)**

TOPIC: "Geotechnical Engineers: Wake Up!"

**SPEAKER:
Dr. Jorj Osterberg, PE, Ph.D.**

**TIMES:
5:30-6:30.....Social Hour
6:30-7:30.....Dinner
7:30-9:00.....Meeting & Program**

**LOCATION:
Caniglia's Venice Inn
6920 Pacific Street, Omaha**

**MENU:
Prime Rib.....\$22
Grilled Salmon Fillet.....\$22
Chicken Parmesan.....\$19**

DINNER RESERVATIONS

RSVP by noon on **Monday 2/17/03**

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

or

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

Dr. Jorj Osterberg



Professor Emeritus of Civil Engr., Northwestern University; Adjunct Professor, University of Colorado

Jorj Osterberg has degrees from Columbia, Harvard and Cornell. During his formal education he worked during summers and for short periods for foundation contractors. His first full time employment was a three year period with the Corps of Engineers at the Waterways Experiment Station in Vicksburg, Mississippi, after which he entered the academic world. While at Northwestern University, he rose through the ranks to Chair Professor. He designed and built the soils laboratory, and developed the Osterberg Hydraulic Piston Sampler. Since his retirement he has been active in consulting and developing the Osterberg Load Cell method for load testing drilled shafts and driven piles. He holds 11 patents.

Osterberg is a former Chairman of the Soil Mechanics and Foundation Division of ASCE. He is an Honorary Member of the ASCE, and is a member of the National Academy of Engineering. He delivered the Terzaghi Lecture in 1985 and later received the Terzaghi Award. He is one of the few surviving founding members of the International Society of Soil Mechanics and Foundation Engineering and the only survivor who both attended and had a paper in the proceedings of the first International meeting of the Society in 1936 and had a paper and attended the fifteenth meeting in Istanbul in 2001. He received The Distinguished Service Award from the Deep Foundations Institute and The Lifetime Achievement Award from the Association of Drilled Shaft Contractors.

ASCE has recently published "A History of Progress: Selected U.S. Papers in Geotechnical Engineering. From the highly theoretical to the elegantly practical, the 78 historical papers are significant for their contribution to the geotechnical engineering literature". Two of these papers were written by Dr. Osterberg.

President's Comments



Brad Levich, P.E.
NE-ASCE President

Cheers,

Hope you are enjoying the mild winter weather. The Water Resources meeting was a huge success. The joint meeting with the UNL student section of ASCE was held in the newly completed Othmer Hall. I would like to thank **Rick Wilson** for helping **Carter Hubbard** setup this meeting. This was a great job of creating a committee to set-up monthly meetings. **Mr. Wade**

Kress provided an interesting look using soil resistivity to locate highly permeable soils, scour hole depths, and to help in locating contamination.

The Geotechnical meeting is February 20, 2003, and will focus on the projects where problems occurred. **Dr. Jorj Osterberg**, P.E., Ph.D. will be the speaker on Thursday night and will also be a speaker at the seminar on Friday. The 20th Annual Geotechnical Seminar will be another great seminar. **Dr. Ralph B. Peck** will be back to provide a look at the "Significant Geotechnical Projects Over the Last 100 Years". Another great job by the Geotechnical Planning Committee. Don't miss this opportunity!

Need CEU's? In addition to the Geotechnical Seminar, other opportunities for continuing education are planned for Omaha and nearby areas. Information on upcoming seminars/courses on Engineered Wood Design and Deep Foundations is given in this issue.

National Engineers Week 2003 is the week of February 16-22. The Nebraska Section will be placing an advertisement in the E-Week Section of the Omaha World Herald, thanks to the efforts of **Rick Kaufmann**. One of the activities sponsored by NE-ASCE during E-Week is the Balsa Wood Truss competition held at the Westroads Shopping Center on Saturday February 22, 2003. Many thanks to Mr. **Bruce Harris** for his outstanding work over the years coordinating this event. Other events to attend include the E-Week Banquet at the Omaha Henry Doorly Zoo TreeTops Restaurant on Friday 21, 2003. Additional information about these events can be found in these pages.

The Younger Member Group had a meeting on Saturday January 25, 2003. If you were unable to attend please contact **Marie Maly** or **Lindsay Madsen** to get involved. Either can be reached at The Schemmer Associates Omaha office at 493-4800.

Hope you take the opportunity to attend some of the great events planned for February. See you at the Geotechnical meeting.

Bradley A. Levich

2002-2003 Important Dates

February:

16-22 - National Engineers Week

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

21 - Annual Geotechnical Conference, Omaha

21 - E-Week Banquet, Omaha

22 - Balsa Wood "Truss-Bustin' " Competition, Omaha

28 - Younger Member FAC, Omaha

March:

5 - Engineered Wood Products Seminar, Omaha

6-8 - Deep Foundations Seminar, St. Louis, MO

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

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

Mark your calendars...

FAC (Friday Afternoon Club)

For all Nebraska Section ASCE Younger Members!
(and Wanna-Be Younger Members, spouses, significant others and friends)

FRIDAY FEBRUARY 28, 2003

4:00pm - ???

BUFFALO WILD WINGS BAR & GRILL

4287 S 144th Street

Omaha, NE

402-861-9464

Contact Marie Maly or Lindsay Madsen with any questions

402-493-4800 or mmaly@schemmer.com or

lmadsen@schemmer.com

Foundation Courses, Inc. Presents:

***Geotechnical and Structural Design & Construction
Monitoring of Deep Foundations***

March 6-8, 2003

St. Louis, Missouri

This course is intended for geotechnical specialists, structural designers, engineering geologists, and deep foundation contractors and materials suppliers involved in the design and construction monitoring of driven piles, drilled shafts, auger cast and micropiles.

For more information or a brochure please contact:

Foundation Courses, Inc.

Ph:(303)494-070/Fax:(303)494-5027/Email: law@bridgetest.com

ASCE Annual Conference / Younger Member Leadership Symposium

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

From November 3 to November 6, 2002, I attended the ASCE Annual Conference and Exposition in Washington DC. Most of the events I attended were part of the Younger Member Leadership Symposium. Sunday afternoon the Younger Members and the Student Members had a teambuilding session that included a speaker as well as ice breakers and group activities. Monday morning, I attended a session for the main conference and the opening plenary that included comments from Tim Russert, host of *Meet the Press*. Monday afternoon, the Younger Members had a session on Policy 465 - the "Bachelor's + 30 credits" proposal for licensure. It was by far the most understandable explanation of Policy 465 I have heard or read. Then, each section or branch had an opportunity to share with the others what kinds of activities their Younger Member Group had done in the last year. I hope that Lindsay and I will be able to put to use some of the ideas I heard from other Younger Member Groups (or Younger Member Forums, as some of them call themselves) here in Nebraska. Some of the groups are quite large and have entire boards and budgets nearly as large as our state section, but all of them started small and were more than willing to share thoughts for things we could do to get started. Tuesday the Younger Members began with presentations by the student and younger member winners of the Mead Ethics Contest, which is held every year. Also, Tom Smith, General Counsel for ASCE, spoke about the legalities of unethical behavior for the Civil Engineer. The Younger Member Leadership Symposium wrapped up on Tuesday afternoon with a session on risk and a discussion with Pat Galloway, the ASCE president-elect. Next fall, she will become the first female president of ASCE, and she seemed to feel very strongly about the importance of younger engineers in today's world. In addition to the sessions, each night the DC area Younger Members Group hosted social activities for the Younger Members. I really enjoyed the opportunity, through the sessions and the socials, to meet other young engineers. There is nothing like being able to share your experiences and learn from others' to help learn about our profession.

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 rakaufmann@terracon.com if you are interested in joining.

www.order-of-the-engineer.org

E-WEEK BANQUET

FRIDAY, FEBRUARY 21, 2003

Sponsored by the Engineer's Roundtable through the corporate support of:

HDR Engineering Inc., URS Corporation, Kirkham Michael Consulting Engineers, TranSystems Corporation, Lamp Rynearson Associates, DLR Group, The Schemmer Associates, E & A Consulting Group Inc. and Alvine & Associates.

"Using Virtual Reality to Help Design and Fund Raise All in One Package"

Dr. Lee G. Simmons, Director of Omaha's Henry Doorly Zoo

Location:	Dinner Selections & Prices:
Omaha Henry Doorly Zoo	Entrée Choices:
TreeTops Restaurant	Slow Roasted Prime Rib
3701 South 10 th Street	\$30.00
	Southwestern Chicken
Time:	\$28.00
6:00 PM – Social Hour	Halibut w/ Lemon Butter
(Cash Bar)	\$26.00
7:00 PM – Banquet & Speaker	

Lead Society & Master of Ceremonies:

The lead society for this year's national E-Week is the American Society of Heating Refrigerating and Air Conditioning Engineers.

Our Master of Ceremonies will be Ray Alvine.

In order to provide a total attendance count to the TreeTops Restaurant, only advanced reservations will be accepted. Advanced reservations, menu choices, attendee's name and payment must be received by **Monday, February 17, 2003**. Checks should be made payable to the "E-Week Roundtable." Please clip the reservation form below (add an additional sheet if required), attach payment and send to the address shown.

Send to: **Phil Rossbach, HDR Engineering, Inc.**
8404 Indian Hills Drive,
Omaha, NE 68114-4049

Attendee's Name(s)	Quantity	Menu Choice	Total Cost
_____	_____	Prime Rib x	\$30 _____
_____	_____	Southwestern Chicken x	\$28 _____
_____	_____	Halibut x	\$26 _____
		Total Cost	_____

PROGRAM DESCRIPTION

The annual geotechnical seminar provides a forum for the presentation of a wide variety of geotechnical field, design, and construction-related topics. This year we are honored to have as presenters Dr. Ralph Peck, Dr. Jorj Osterberg, Dr. Donald Bruce, Mr. Steven Scherer, Dr. James Long, Mr. Arturo Ressi-Di Cervia, Mr. Dick Short, and Mr. Joseph Waxse. Please join us for what promises to be an interesting and informative program. A certificate verifying 7.5 Professional Development Hours will be provided to registered attendees.

WHO SHOULD ATTEND

All professionals who are involved in geotechnical exploration, design, construction, or observation. This would include:

- Engineers/Geologists
- University Instructors
- Technicians/Contractors

INFORMATION

ADMISSION to the seminar is by registration. To ensure admission, complete the registration and mail early.

THE REGISTRATION FEE covers coffee breaks, lunch and handout material.

REFUNDS will be made if the conference is canceled or if the applicant cancels no later than five working days prior to the conference date.

MAIL your registration and fee to:
Geotechnical Seminar
Department of Civil Engineering
University of Nebraska
Omaha, Nebraska 68182

SPONSORED BY:

AMERICAN SOCIETY OF CIVIL ENGINEERS,
NEBRASKA SECTION

IN COOPERATION WITH:

UNIVERSITY OF NEBRASKA
DEPARTMENT OF CIVIL ENGINEERING
AND THE COLLEGE OF ENGINEERING AND
TECHNOLOGY

20th ANNUAL GEOTECHNICAL SEMINAR

GEO-Omaha 2003

FEBRUARY 21, 2003
KIEWIT CONFERENCE CENTER
OMAHA, NEBRASKA

LOCATION

The Kiewit Conference Center is located at 13th and Farnam, across from the Central Park Mall, downtown Omaha, Nebraska. Parking is provided directly south of the Center in the Omaha Park II garage.

PLANNING COMMITTEE:

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GEOTECHNICAL SEMINAR
DEPARTMENT OF CIVIL ENGINEERING
UNIVERSITY OF NEBRASKA
OMAHA, NEBRASKA 68182



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OMAHA, NEBRASKA 68182
PHONE: (402) 554-2463

FULL TIME STUDENTS please list

College _____ and _____
class _____

ANNUAL GEOTECHNICAL SEMINAR

GEO-Omaha 2003

DATE: FRIDAY, FEBRUARY 21, 2003

Name _____
Title _____
Phone (Area Code) _____
Company _____
Address _____
City _____ State _____ Zip _____

Registration fee is \$110.00 on or before February 12, 2003; \$130.00 after this date. Full time students pay \$25.00.

D e t a c h & m a i l



AMERICAN SOCIETY OF CIVIL ENGINEERS
PRESENTS:

**20TH ANNUAL GEOTECHNICAL
SEMINAR
GEO-Omaha 2003**

**FEBRUARY 21, 2003
KIEWIT CONFERENCE CENTER
OMAHA, NEBRASKA**

MORNING SESSION

- 7:30 - 8:00 Registration, Kiewit Conference Center
- 8:00 - 8:15 Welcome, Dr. Ray Moore, UNL
- 8:15 - 9:15 "Significant Geotechnical Projects Over the Last 100 Years"
Dr. Ralph Peck, Ph.D.
Consultant
- 9:15 - 10:00 "Micropiles: National and International Perspective"
Dr. Donald Bruce, Ph.D.
Geosystems, Venetia, PA
- 10:00 - 10:30 Break/Vendor Displays
- 10:30 - 11:15 "High Capacity Micropile Practice in the Midwest – Design, Testing, and Installation"
Mr. Steven D. Scherer, P.E.
Vice President, Midwest Region of Hayward Baker, Inc.
- 11:15 - 12:00 "Lateral Load Tests on Micro Piles"
Dr. James H. Long, Ph.D.
Professor of Civil Engineering,
University of Illinois
- 12:00 - 1:00 Lunch/Vendor Displays

AFTERNOON SESSION

- 1:00 - 1:45 "Reflections on Our Industry"
Mr. Arturo Ressi-Di Cervia
TREVICOS Corporation
- 1:45 - 2:45 "Innovative Technologies Emerging From the 2002 European FHWA Scan Tour"
Mr. Dick Short, P.E., G.E.
Kleinfelder
- 2:45 - 3:15 Break/Vendor Displays
- 3:15 - 4:00 "Load Testing High-Capacity Drilled Shafts"
Dr. Jorj Osterberg, P.E., Ph.D.
Professor Emeritus of Civil Engineering, Northwestern University
- 4:00 - 4:30 "Nebraska Experience With Osterberg Cell Load Testing"
Mr. Joseph A. Waxse, P.E.
Terracon

VENDOR DISPLAYS

A display of products, equipment and services associated with the geotechnical, drilling, and construction industries will be provided by vendors and consultants. A variety of products and information on professional services will be presented. Firms that currently plan to attend include:

- ♦ A.S.P. Enterprises*
- ♦ Berkel & Company Contractors, Inc.*
- ♦ Colog Division (Drilled Shaft Evaluation)
- ♦ Contech Construction Products, Inc.*
- ♦ Durham Geo/Slope Indicator*
- ♦ Geopier Foundation Company*
- ♦ Geotechnical Services, Inc.
- ♦ Hayes Drilling Company*
- ♦ Hayward Baker, Inc.*
- ♦ Humboldt Manufacturing Company*
- ♦ Lumberman's*
- ♦ Kleinfelder
- ♦ Saberprobe Direct Push Technology
- ♦ Terracon
- ♦ Vance Brothers*
- ♦ Watkins Concrete Block Company, Inc.*

* - Conference Break Sponsors

National Engineers Week

February 16-22, 2003



Check out the 2003 National Engineers Week Web site, www.eweek.org. It contains a variety of information pertinent to engineers, educators of all age groups, and persons interested in how things work. The sponsors of the upcoming Engineers Week, February 16-

22, have created a new program to encourage young engineers in the profession: Fresh Faces of Engineering. In addition, there are a variety of ongoing programs to encourage youth to consider engineering as a career, such as Zoom into Engineering, which targets grades 1-6, Introduce a Girl to Engineering Day, Future City Competition, involving middle schoolers, and DiscoverE, which reaches out to grades K-12. Also visit www.engineeringsights.org, a Web site developed by the National Society of Professional Engineers for National Engineers Week 2001. Called A Sightseers Guide to Engineering, this Web site provides an online introduction to the engineering innovations all around us.

LOCAL STUDENTS COMPETE IN MATHCOUNTS COMPETITION

Teams of 6th, 7th, and 8th grade student "mathletes" from Omaha Metropolitan area schools will compete in the local contest of the national MATHCOUNTS competition on Saturday, February 22, 2003. Nebraska's Eastern Chapter of the National Society of Professional Engineers has organized the contest to be held in Omaha at the Holiday Inn Convention Centre.

MATHCOUNTS is a nationwide middle school math enrichment program designed to answer the problem of declining math skills among U.S. students. Sponsors target 6th, 7th, and 8th grade students, who are at the crucial stage in developing and sustaining interest and ability in math. In addition it allows students to develop self-confidence in their academic ability and problem solving skills.

Approximately 300 students from 40 schools will compete. The schools include Archbishop Bergan Catholic, Bellevue Christian Academy, Bennington Junior High School, Beveridge Magnet School of the Arts, Brownell Talbot, Bryan Middle School, Christ the King, Elkhorn Middle School, Conestoga Middle School, Elmwood Murdock, Fremont Middle School, King Science Center at Mann, LaVista Junior High School, Logan Fontenelle Middle School, Mary Our Queen, McMillan Magnet Center, Mission Middle School, Monroe Middle School, Morton Middle School, Mount Calvary Lutheran, Nathan Hale Middle School, Norris Middle School, Otte Blair Middle School, Papillion Junior High School, Plattsmouth Middle School, Ralston Middle School, Saint Cecilia Elementary School, Saint James/Seton, Saint Joan/Gerald Middle School, Saint Margaret Mary, Saint Marys Home and School Association, Saint Marys School of Omaha, Saint Philip Neri Grade School, Saint Pius/Leo, Saint Stephen the Martyr, Saint Vincent De Paul, School District of Arlington, Valley Middle School, and Westside Middle School.

Teachers and students have been preparing for the contest since last fall. Students will compete individually and as teams in written and fast-paced oral matches. Subjects include probability, statistics, linear algebra, and polynomials. The winners will receive trophies and advance to the state competition set for March 22, 2003 in Lincoln. State winners will win a trip to the national competition in Chicago in May.

Local competition sponsors include 3M, American Bottlers, American Public Works Association, Albertson's, Bakers Supermarkets, Bruegger's Bagels, and Hy-Vee.

The MATHCOUNTS Foundation Founding Sponsors are the CNA Foundation, National Society of Professional Engineers, and National Council of Teachers of Mathematics. National Sponsors include the Dow Chemical Company Foundation, General Motors Foundation, Lockheed Martin, National Aeronautics and Space Administration, Phillips Petroleum Company, Texas Instruments Incorporated, and 3M Foundation.

For more details about MATHCOUNTS contact Steve McCullough, NSPE Eastern Chapter MATHCOUNTS Coordinator at SMcCullo@hdrinc.com or visit the MATHCOUNTS website at <http://mathcounts.org>.

Balsa Wood "Truss Bustin' " Competition

One of the local activities sponsored by the Nebraska Section during Engineers Week is the metro area High School Balsa Wood Truss competition. The competition will be held at the Westroads Shopping Center, 102nd and West Dodge Road in Omaha. The testing machine that will load the trusses to failure will be set up in the mall leading to Von Maur. The testing will start at 1:00 P.M. and run most of the afternoon. So, if you like to see the creativity of High School students, or just hear and see things "get broke", join us at the Mall on Saturday, February 22, 2003. For any questions or further details, please call **Bruce Harris**, High Schools & E-Week Committee, at 221-4440 (W) or 498-0296 (H).

Check out the Nebraska Section's Website!

www.neasce.org

Last Month's Meeting



27 members attended the joint Water Resources/UNL Student Chapter meeting held at UNL on Jan. 23 to hear Wade Kress of USGS, pictured during his presentation about geophysical survey techniques. Thank you to Mr. Kress for his presentation and to the Water Resources Committee and UNL Student Chapter.

Thomas Strauss
Brad Levich
Steve Nickel
Tom Franti
Kim Parland
John Hill
Marie Maly
Lindsay Madsen
Wayne Woldt

Deb Ohlinger
Holly Lionberger (guest)
Joe Waxse
Daryoush Razavian
Matt Lindburg (guest)
Mohamed Dahab
Dan Mahrt
Aaron Buettner
Jeff Kortan

Guy Lindeman
Chris Taley
Jeff Thompson
Daren Konda
Ryan Beckman
Paul Gonzalez
Matthew Kruse
Rick Wilson
Paul Dierking

A Note from the Editor

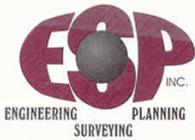
The deadline for the March edition of *The Nebraska Civil Engineer* is March 3. Send ideas for items that could be included in this newsletter, articles, or information to:

NE-ASCE Newsletter Editor
c/o Rick Kaufmann
Terracon

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Fax No.: (402)-330-7606

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Update your mailing address, phone number, or email address at www.asce.org/myprofile or call 1-800-548-2723



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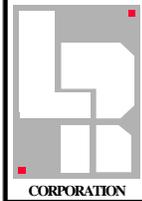
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