

**EVENT CALENDAR:**

**January**

16th - January Meeting  
hosted by Water Resources  
Group

**February**

6th - February Meeting  
7th - Geotechnical  
Conference  
20th - E-Week Banquet

**ISSUE HIGHLIGHTS:**

January Meeting

From the President

December Management  
Meeting Summary

31st Annual Geotechnical  
Seminar (GEO-Omaha  
2014)

Geotechnical Short Course

Upcoming Meetings and  
Conferences (NEASCE)

**January Meeting**

January 2014

**Hosted by the Water Resources Technical Group**

Thursday, January 16, 2014

- Host:** Nebraska Section ASCE, Water Resources Technical Group
- Presenters:** Chad Smith, Director of Natural Resources, Platte River Recovery Implementation Program  
Tom Riley, President, The Flatwater Group  
Pat Engelbert, Vice President, HDR Engineering
- Program:** "Central Platte River Sediment Augmentation - A Pilot Study"
- Location:** University of Nebraska-Lincoln  
Othmer Hall, Room 106  
17th & Vine Streets  
Lincoln, NE
- Times:** 6:15 p.m. Social & Pizza  
7:00 p.m. Meeting and Presentation
- Menu:** Pizza and Pop
- Price:** ASCE Nebraska Section Members - \$10 per person with or without meal  
Students - Free  
All persons planning to attend, regardless of price, must register. Please pay at the door. A receipt will be given upon request.
- Registration:** Register online by 1:00 p.m. on Wednesday January 15, 2014 at: <http://meeting.neasce.com/signup/>
- Parking Note:** Most nearby campus parking meters are free after 6 pm; otherwise, paid garage parking is available at 17th & R Streets.

Deadline for articles to be published in the February newsletter will be January 24th. Email articles to Greg Seib at [gseib@olssonassociates.com](mailto:gseib@olssonassociates.com)

## 2013-2014 NE-ASCE OFFICERS

### **President**

Mike Sklenar, P.E., M.ASCE  
Nebraska Department of Roads  
402-479-4844  
president@neasce.org

### **President-Elect/Region 7 Assembly Rep.**

Andres Torres, P.E., M.ASCE  
Valmont Industries  
402-359-6158  
president-elect@neasce.org,  
region7rep@neasce.org

### **Vice President**

Joe Flaxbeard, P.E., M.ASCE  
Lamp Rynearson & Associates  
402-496-2498  
vp@neasce.org

### **Past President**

Shannon DeVivo, A.M.ASCE  
URS Corporation  
402-952-2585  
shannon.devivo@urs.com

### **Treasurer**

Tyler Klusaw, A.M.ASCE  
Lamp, Rynearson & Associates  
402-496-2498  
treasurer@neasce.org

### **Director**

Marie Stamm, P.E., M.ASCE  
The Schemmer Associates, Inc.  
402-493-4800  
marie.asce@gmail.com

### **Director**

John Hill, P.E., M.ASCE  
Lamp Rynearson & Associates  
402-496-2498  
john.hill@lra-inc.com

## From the President

Happy New Year to the Nebraska Section. Hope you all had a safe and Happy Holiday season. We are looking forward to a new year of meetings, conferences and outreach programs. We are pleased to announce that we will now be able to accept Visa, MasterCard, Discover and American Express debit and credit cards for payment at the Section meetings. I encourage you to sign up for the January meeting since this provides an excellent opportunity for the UNL students to attend a Section meeting and meet potential employers. See you in January.

-Mike Sklenar, M. ASCE

## December Management Group Meeting Summary

The Nebraska Section's Management Group hosted the December meeting and presentation on December 19, 2013. Earl Imler, of the Nebraska Emergency Management Agency, delivered a presentation on the state's role in emergency response. Derek Gardels also gave an overview of the Envision Sustainable Infrastructure Rating System. The list below can be considered official documentation of attendance at the December 19, 2013 meeting worth one (1) PDH credit.

Daren Konda  
James Conroy  
Renata Hubel

Derek Gardels  
Lara Syrocki  
Tyler Klusaw

Nick Kinsman  
Mark Nelson  
Brandon Gardels

Mike Sklenar  
Matt Hubel  
Loras Klosterman



*December Management Meeting and Presentation*

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# 31st Annual Geotechnical Seminar (GEO-Omaha 2014)

## 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 Bengt Fellenius, Sri Sritharan, Timothy Stark, Emad Farouz, Ching Tsai, Vern Schaefer, Caleb Douglas and Jordan Larsen. 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 process early. To register, go to [www.neasce.org](http://www.neasce.org) on or after January 1, 2014 and click on the GeoOmaha registration link.

**REGISTRATION FEE** is \$170.00 on or before February 3, 2014, \$190.00 after this date. Full time students pay \$25.00. Proceeds benefit the ASCE funded Peck/Benak Engineering Achievement Scholarship, Future City Competition, and local ASCE Student Section.

**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.

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## IN COOPERATION WITH:

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AND THE COLLEGE OF ENGINEERING AND  
TECHNOLOGY

## 31<sup>st</sup> ANNUAL GEOTECHNICAL SEMINAR

### GEO-Omaha 2014

FEBRUARY 7, 2014  
SCOTT CONFERENCE CENTER  
OMAHA, NEBRASKA

## LOCATION

The Scott Conference Center is located at 6450 Pine Street, on the University of Nebraska Omaha AKSARBEN campus, in Omaha, Nebraska. Travel directions and an area map are available online at [www.scott-center.com](http://www.scott-center.com). Complimentary parking is provided in Lot 9, directly across the street from the Scott Center.

## PLANNING COMMITTEE:

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# 31st Annual Geotechnical Seminar (GEO-Omaha 2014)



## Nebraska Section

PRESENTS:

### 31<sup>st</sup> ANNUAL GEOTECHNICAL SEMINAR GEO-Omaha 2014

FEBRUARY 7, 2014  
SCOTT CONFERENCE CENTER  
OMAHA, NEBRASKA

#### MORNING SESSION

7:30 - 8:00	Registration, Scott Conference Center
8:00 - 8:15	Welcome Address, John Rohde, PhD, PE
8:15 - 9:45	"Two Case Histories of Analysis of Results of Static Loading Tests on Instrumented Piles Greatly Influenced by Residual Load – Sandpoint Idaho and Singapore Skyway" Bengt Fellenius, Dr. Tech., P.Eng Bengt Fellenius Consultants Inc.
9:45 - 10:15	Break/Vendor Displays
10:15-11:15	"Louisiana DOTD's Foundation Design Practice Using CPT" Ching Tsai, PhD, PE Louisiana Department of Transportation and Development
11:15 - 12:00	"Council Bluffs Interstate System Ground Improvement Approach" Emad Farouz, PE CH2M Hill
12:00 - 1:00	Lunch/Vendor Displays

#### AFTERNOON SESSION

1:00 - 2:00	"Seismic Retrofit of Tuttle Creek Dam in Manhattan, Kansas" Timothy Stark, PhD, PE, D.GE University of Illinois at Urbana-Champaign
2:00 - 3:00	"Efficient LRFD Procedures for Design and Construction of Bridge Piles" Sri Sritharan, PhD Iowa State University
3:00 - 3:30	Break/Vendor Displays
3:30 - 4:00	"Development of LRFD Field Pile Driving Equation for Nebraska Department of Roads" Jordan Larsen, PE Nebraska Department of Roads
4:00 - 4:45	"GeoTechTools: An Alternatives Analysis Tool" Vern Schaefer, PhD, PE Iowa State University Caleb Douglas, PhD, PE Union Pacific Railroad

#### 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:

- ASP Enterprises
- Berkel&Company\*
- Checkmate Geosynthetics
- Geotechnology
- Ground Improvement Engineering\*
- Hayes Drilling\*
- HDR Engineering, Inc.\* (Break sponsor only)
- Humboldt
- KC Piermasters\*
- L.B. Foster
- Olsson Associates\* (Break sponsor only)
- Lumbermen's
- Subsurface Constructors\*
- Tensar\*
- Terracon\* (Break sponsor only)
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- Thiele Geotech\* (Break sponsor only)
- Thrasher Basement Systems\*
- Uretex\*

\* - Special Thanks to our Refreshment Break Sponsors!

### REGISTRATION FOR ANNUAL GEOTECHNICAL SEMINAR

GEO-Omaha 2014

DATE: FRIDAY, FEBRUARY 7, 2014

Registration is now online: Please go to [www.neasce.org](http://www.neasce.org) on or after January 1, 2014 and click on the GeoOmaha registration link.

Registration fee is \$170.00 on or before February 3, 2014, \$190.00 after this date. Full time students pay \$25.00. Proceeds benefit the ASCE funded Peck/Benak Engineering Achievement Scholarship, the Future City Competition, and local ASCE Student Section.

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# Geotechnical Short Course

NEASCE is planning a one-day short course prior to the Geotechnical Conference. The course is planned for February 6th at the Scott Conference Center in Omaha. See the flyer below for additional information.

## PROGRAM DESCRIPTION

The course presents the essentials of the Unified Method of deep foundations design for capacity, drag load, settlement, and downdrag for single piles, pile groups, and piled foundations. The presentations are illustrated with several case histories of testing and design analysis including how to evaluate strain-gage measurements from instrumented pile loading tests and to assess residual load. Settlement analysis is of vital importance to the design of piled foundations, and the course addresses principles of settlement analysis and how to calculate settlement of piled foundations supported on single piles, and small and large pile groups. Pertinent aspects of Load and Resistance Factor Design are discussed and some aspects of construction procedures are addressed.

A certificate verifying 7.5 Professional Development Hours will be provided to registered attendees.

## WHO SHOULD ATTEND

All students and professionals who are involved in geotechnical exploration, design, construction, or observation.

This would include:

- Engineers/Geologists/Contractors
- University Instructors
- State Agencies
- Engineering/Construction Students

## INFORMATION

**ADMISSION** to the short course is by registration. To ensure admission, complete the registration process early. To register, go to [www.neasce.org](http://www.neasce.org) on or after January 8, 2014 and click on the GeoOmaha registration link.

**REGISTRATION FEE** is \$125.00 on or before January 30, 2014, \$150.00 after this date. A part of the proceeds benefit the ASCE funded Peck/Benak Engineering Achievement Scholarship, Future City Competition, and local ASCE Student Section.

**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.

## ASCE GEOTECHNICAL SHORT COURSE Basics of Design of Piled Foundations by

**Bengt H. Fellenius**  
Dr. Tech., P.Eng

FEBRUARY 6, 2014  
SCOTT CONFERENCE CENTER  
OMAHA, NEBRASKA

## LOCATION

The Scott Conference Center is located at 6450 Pine Street, on the University of Nebraska Omaha AKSARBEN campus, in Omaha, Nebraska. Travel directions and an area map are available online at [www.scott-center.com](http://www.scott-center.com). Complimentary parking is provided in Lot 9, directly across the street from the Scott Center.

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**Nebraska Section**

PRESENTS:

## GEOTECHNICAL SHORT COURSE Basics of Design of Piled Foundations

By  
**Bengt H. Fellenius**  
Dr. Tech., P.Eng.

FEBRUARY 6, 2014  
SCOTT CONFERENCE CENTER  
OMAHA, NEBRASKA

## MORNING SESSION

8:15 - 8:45 Registration, Scott Conference Center

8:45 - 9:00 Welcome and Introduction

9:00 - 10:30 Analysis of Load Transfer, Capacity, and Response to Load

10:30 - 10:45 BREAK

10:45 - 12:30 The Static Load Test: Performance, Analysis, and Instrumentation

12:30 - 1:30 LUNCH

## AFTERNOON SESSION

1:30 - 3:15 Piles and Pile Groups: Long Term Behavior

3:15 - 3:30 BREAK

3:30 - 4:45 The Unified Design Method

4:45 - 5:30 Questions and Discussion

5:30 END

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## Upcoming Meetings and Conferences (NEASCE)


Please save the dates for these upcoming NEASCE meetings and conferences. More information on these events will be provided later.

### Geotechnical Conference

Friday, February 7th, 2014 at the Scott Conference Center (Omaha)

### E-Week Banquet

Thursday, February 20th, 2014 at the Strategic Air & Space Museum (Ashland)



SAVE THE DATE  
E-WEEK Banquet  
Thursday *February 20, 2014*

**Banquet Location:**  
Strategic Air & Space Museum  
28210 West Park Hwy  
Ashland, Nebraska

**6:00 PM – Social Hour  
(Cash Bar)**  
**7:00 PM – Banquet &  
Speaker**

WATCH FOR MORE INFORMATION AND REGISTRATION FORMS COMING SOON!!

Engineer's Roundtable Website: <http://engineerroundtable.org>



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