

## 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 James Mitchell, Chuck Dowding, John Christian, Stephen Wright, Radhey Sharma, Donald Bruce, John Davis, Lok Sharma and Binod Sapkota. 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 upon request.

## 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:

2005 Geotechnical Seminar  
c/o Mr. John Christiansen, P.E.  
Thiele Geotech, Inc.  
13478 Chandler Road  
Omaha, NE 68138-6174

## 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

# 22<sup>nd</sup> ANNUAL GEOTECHNICAL SEMINAR

## GEO-Omaha 2005

FEBRUARY 18, 2005  
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:

RYAN BECKMAN, P.E.  
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TERRACON



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



MAKE CHECK PAYABLE TO:

**ANNUAL GEOTECHNICAL SEMINAR**

MAIL PAYMENT WITH THIS ATTACHMENT TO:

2005 Geotechnical Seminar  
c/o Mr. John Christiansen, P.E.  
Thiele Geotech, Inc.  
13478 Chandler Road  
Omaha, NE 68138-6174

FULL TIME STUDENTS please list

College \_\_\_\_\_ and \_\_\_\_\_  
class \_\_\_\_\_

D e t a c h   &   m a i l

**ANNUAL GEOTECHNICAL SEMINAR**

**GEO-Omaha 2005**

**DATE: FRIDAY, FEBRUARY 18, 2005**

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

Registration fee is \$120.00 on or before February 4, 2005, \$140.00 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.



**Nebraska Section**

PRESENTS:

**22<sup>nd</sup> ANNUAL GEOTECHNICAL SEMINAR  
GEO-Omaha 2005**

**FEBRUARY 18, 2005  
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 "Time: The Fourth Dimension of Soil Behavior in Geotechnical Engineering"  
James K. Mitchell, Ph.D., PE  
University Distinguished Professor,  
Emeritus, Department of Civil and Environmental Engineering  
Virginia Tech
- 9:15 - 10:15 "Control of Construction Vibrations with Autonomous Crack Measurement"  
Chuck Dowding, Ph.D., PE  
Professor, Department of Civil and Environmental Engineering  
Northwestern University
- 10:15 - 10:45 Break/Vendor Displays
- 10:45 - 11:45 "What Does Reliability Analysis Add To Our Understanding Of Geotechnical Engineering?"  
John T. Christian, Ph.D., PE  
Consulting Engineer  
Waban, Massachusetts
- 11:45 - 12:45 Lunch/Vendor Displays

**AFTERNOON SESSION**

- 12:45 - 1:45 "Tiered MSE Retaining Wall Design"  
Stephen G. Wright, Ph.D., PE  
Professor  
Geotechnical Engineering Department  
of Civil Engineering  
University of Texas
- 1:45 - 2:30 "Model for the Behavior of Unsaturated Soils"  
Radhey Sharma, Ph.D., PE  
Assistant Professor, Dept. of Civil,  
Construction and Envr. Engineering  
Iowa State University
- 2:30 - 3:00 Break/Vendor Displays
- 3:00 - 3:45 "Drilling and Sampling of Embankments Using the Sonic Drilling Method"  
Dr. Donald A. Bruce  
President, Geosystems, L.P.  
John Davis, Manager, Construction  
Drilling Division  
Boart Longyear Company
- 3:45 - 4:30 "FLAC Analysis Of Port Of Anchorage Wharf Structure"  
Lok Sharma, PE,  
Binod K. Sapkota, Ph.D.  
Terracon Consultants, Inc.

**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.\*
- ♦ Contech Construction Products, Inc.\*
- ♦ Durham Geo/Slope Indicator\*
- ♦ Geopier Foundation Company\*
- ♦ GEOTAC\*
- ♦ Geotechnical Services, Inc. (sponsor only)\*
- ♦ Geotechnology, Inc.\*
- ♦ Hayes Drilling Company\*
- ♦ Hayward Baker, Inc.
- ♦ Humboldt Manufacturing Company\*
- ♦ HWS\*
- ♦ Lumbermans\*
- ♦ Terracon Consultants\*
- ♦ Thiele Geotech, Inc. (sponsor only)\*
- ♦ Thrasher Basement Systems, Inc.\*
- ♦ Watkins Concrete Block Company, Inc.

\* - Special Thanks to our Conference Break Sponsors