

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

Volume XLIX January 2002 Number 4

2001-2002 Nebraska Section Officers

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Information Meeting

DATE:

Wednesday, January 23

Water Resources Group Nebraska Section ASCE, and **UNL Student Chapter**

Roger K. Patterson

Director, Nebraska Department of Natural Resources

The New Nebraska-Wyoming Water Rights Agreement for the North Platte Basin.

TIMES:

6:30-7:15...Meeting and Program 7:15-8:00......Dinner

LOCATION:

53 Henzlik Hall Between 15th & 16th Streets North of Vine University of Nebraska-Lincoln (Park at new parking garage at 16th &

Q)

MENU:

Pizza (\$10.00)

Checks payable to ASCE-UNL Student Chapter

DINNER RESERVATIONS

RSVP with menu choice by noon on Monday 1/21/02

In Omaha and Eastern Nebraska:

contact Bob Kalinski at (402) 894-2678 or president@neasce.org

In Lincoln and Central /Western Nebraska: contact Brad Levich at (402) 466-3911 or president-elect@neasce.org

Roger K. Patterson

Roger Patterson was appointed Director of the Nebraska Department of Natural Resources by Governor Mike Johanns in January 1999. In July 1, 2000, the Department of Natural Resources was formed with the merger of the Department of Water Resources and the Nebraska Natural Resources Commission and Patterson was named Director of this newly formed agency. Prior to his appointment with the State of Nebraska, he spent 25 years with the Bureau of Reclamation, Department of Interior, working in several of the western states.

His most recent assignment with the Bureau of Reclamation was as Regional Director of the Mid Pacific Region in Sacramento, California where he oversaw a staff of 800 employees and an annual budget of \$300 million.

Patterson has been honored with numerous awards throughout his career, among them the 1995 Presidential Rank Distinguished Executive Award, the highest award bestowed on a Federal career employee. This presidential-level honor

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President's Comments

It Was a Good Year After All



Bob Kalinski, President Nebraska Section, ASCE

Happy New Year to all members of the Nebraska Section and here's to a prosperous 2002! Many events occurred in 2001 that impacted members of the Nebraska Section and all of ASCE and brought attention to our profession. Although my list is certainly not all-inclusive, some of the more high-profile events that made the past year memorable are listed below.

- The job market and workloads of Civil Engineers started at a gangbuster pace in 2001, but slowed toward the end of the year as capital expenditures on construction projects were reduced in response to an economy that was slipping into recession. Overall, however, the future job market for civil engineers continues to be strong as our country upgrades and secures our infrastructure and the federal government continues to free up cash for economic stimulation.
- Construction accelerated at the new Omaha Convention Center/Arena and many local environmental, geotechnical, structural, and water resources civil engineers were involved with planning, design, and construction efforts.
- The terrorists attacks of September 11 taught us that the achievements of our profession could be construed as a threat to some, and were in fact the target of established political entities that disapproved of the American culture and way of life. Ironically, the alleged leader of the attacks has used the title "construction engineer" in the past. But the attacks also taught the public about the fragile nature of engineering structures and hopefully added a degree of respect for our profession. One can only hope that watching a structure come down will make the public appreciate what it takes to put one up. Incidentally, five members of ASCE were killed in the attacks on the World Trade Center.
- In November, Governor Gray Davis of California indicated that his office had received credible evidence of terrorist threats aimed specifically at suspension bridges, including the Golden Gate Bridge

and San Francisco-Oakland Bay Bridge. Immediately, the buildings around the ends of the suspension cables were secured. These threats showed us that the terrorists who were focused wreaking havoc in our country could also have adequate engineering knowledge to determine how structures could be most vulnerable to malicious acts.

- In December, military and civilian engineers became involved with the rebuilding of Afghanistan following removal of the Taliban regime and al Qaeda network.
- On January 1, 2002, the Los Angeles Section returned ASCE to the Tournament of Roses Parade for the first time since 1980. The beautiful float was entitled "Building a Better World" and was awarded as "Best Artistic Impression" for all parade floats and was raved about by those who described the float for major television networks.

Although many of the infamous events of 2001 were not things that we would want or hope for, it is difficult to argue that they did heighten public awareness and teach us new things about our profession, thus making 2001 a good year after all.



2002 Important Dates

Jan 23 JANUARY MEETING (Co-hosted by Water Resources Group and UNL Student Chapter), Lincoln

Feb 17-23 National Engineers Week

Feb 28 FEBRUARY MEETING (Hosted by Geotechnical Group), Omaha

Mar 1 ANNUAL GEOTECHNICAL CONFERENCE

Mar 14 MARCH MEETING (Hosted by Environmental Group), TBA

Apr 11 APRIL MEETING (Co-hosted by Transportation Group and UNO Student Chapter), Omaha

May TBA ANNUAL MEETING & BANQUET, GOLF OUTING

Oct 3 MONTHLY MEETING (Hosted by Structural Group)

Oct 4 ANNUAL STRUCTURAL CONFERENCE

The ASCE 2002 Member Drive is On!

Earn Rewards ... Win Prizes ... Help Your Colleagues!



Refer your colleagues for ASCE membership during the 2002 member drive and you can earn terrific rewards and prizes. Visit our special web site for details on how to participate. For more information visit www.ASCEDrive.org

E-WEEK BANQUET FRIDAY, FEBRUARY 15, 2002

Sponsored by the Engineer's Roundtable

"NASA Astronaut Development Program"

Astronaut Clayton C. Anderson will speak about his experiences in NASA's Astronaut Development Program. Mr. Anderson is a native of Ashland, Nebraska. He received a Bachelor of Science Degree in Physics from Hastings College in 1981 and a Master of Science Degree in Aerospace Engineering from Iowa State University in 1983. Anderson joined the Johnson Space Center in 1983 and served in the Mission Planning and Analysis Division, the Mission Operations Directorate, and the Flight Design and Dynamics Division. From 1996 until his selection for Astronaut Candidate Training, Anderson held the post of Manager, Emergency Operations Center, NASA Johnson Space Center in Houston, Texas. Selected for the Astronaut Development Program in June 1998, he reported for training in August 1998. Anderson is currently assigned to the Astronaut Office International Space Station Operations Branch as the crew representative for the Station's electrical power system. He will serve in technical assignments until assigned to a space flight.

Location: Dinner Selections & Prices: Cascio's Steak House Entrée Choices: 1620 South 10th Street 10oz. Club Steak \$22.00 Time: 9 oz. Broiled Chicken Breast \$20.00 6:00 PM – Social Hour (Cash Bar) 10 oz. Grilled Halibut \$24.00 7:00 PM – Banquet & Speaker (Dinner selection includes Lead Society & Master of Ceremonies: salad, baked potato, bread, The lead society for this year's national vegetable, choice of bever-E-Week is the American Society of Civil age and dessert.) Engineers. Joe Waxse will be our Master of Ceremonies.

In order to provide a total attendance count to Cascio's, only advanced reservations will be accepted. Advanced reservations, menu choices, attendee's name and payment must be received by **Monday, February 11, 2002**. 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.

HDR Engineering, Inc. 8404 Indian Hills Drive Omaha, NE 68114-4049			
Attendee's Name(s)	Quantity	Menu Choice Club Steak x \$22	Total Cost
		Broiled Chicken x \$20	
		Grilled Halibut x \$24	

Total Cost

Send to:

Phil Rossbach

Roger K. Patterson, Continued

recognized Patterson for his leadership role in the development and supervision of water resource management programs which have a major environmental and economic impact on millions of California residents. In 1999, Patterson received the Department of the Interior's Distinguished Service Award for achievements in addressing engineering, environmental, and public concerns as Regional Director of the Mid-Pacific Region.

He is a graduate of the University of Nebraska with degrees in civil engineering. Patterson and his wife, Linda, have two daughters.

In addition to being agency Director, Patterson is Chairman of the Nebraska Boundary Compact Commission and is the State Representative to the Missouri River Basin Association, State Environmental Trust Board, Blue River Compact, Republican River Compact and the Upper Niobrara River Compact.

<u>Terracon - Omaha Receives</u> <u>National Younger Member</u> Award

Terracon's Omaha office was acknowledged as a recipient of the 2001 Employer Recognition Award, presented by the ASCE Committee on Younger Members (CYM). The award is given to recognize employers who support younger member participation in ASCE activities. Thirteen offices of engineering firms nationwide received this award, whose names were published in the December 2001 issue of *ASCE News*.

Evidence of outstanding support includes providing a model for involvement through companywide participation in local, regional, and national ASCE activities; promoting technical and professional growth; encouraging young engineers to prepare articles for publication in ASCE professional and technical journals; and assisting in the payment of local and national dues.

The biweekly **ASCE E-Newsletter** is your gateway to the latest information about the American Society of Civil Engineers as well as news from the world of Civil Engineering.

The latest edition of this newsletter can be found on the Nebraska Section's website. Just go to **www.neasce.org** and click on the *News* link.

Last Month's Meeting



At left, Don Nelson talks during the Management Meeting about recent national events and the state of affairs for a US Senator. Twenty-two people attended the meeting held last November at The Steak House in Lincoln. They were:

W. Don Nelson (speaker)
Joe Waxse
Larry Fischer K
Brad Levich
John Hill
Ed Prost
Reed Schwartzkopf
Dan Mahrt
Aaron Gaul
Rick Kaufmann
Nathan Dickerson

rr) Dave Admiraal
Ryan Paradis
Keith Endern (visitor from Tenn.)
Tom Marnik
Aaron Buettner
Dick Taylor
Loras Klostermann
Daren Konda
Daryoush Razavian
Mark Stark
Bob Kalinski

A Note from the Editor

The deadline for the February edition of *The Nebraska Civil Engineer* is Feb. 15. 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: <u>editor@neasce.org</u>

The Section's website can be found at

www.neasce.org

Direct any items of interest or comments to the Section Webmaster, **Brad Chambers**, at (402)444-6866 or webmaster@neasce.org. These can include job position postings, RFP's, corporate news releases, editorials, articles, or photos of ASCE-related events. We send out notices, reminders and an electronic copy of this newsletter via email. To be included in our email database, email Brad Chambers at the above address.

CHANGE OF ADDRESS?

Please notify ASCE national of any address changes by calling 1-800-548-ASCE (2723) or contact them through their web siteatwww.asce.org. Address changes made at the national ASCE office are updated monthly at your local Nebraska Section.

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. Robert Koerner, Dr. Jean-Louis Briaud, Mr. R. Gordon McKeen, Mr. David Butler, Mr. Melvin I. Esrig, and Mr. Jim Morrison (no, not THAT Jim Morrison). Please join us for what promises to be an interesting and informative program. As always, 0.75 CEU's will be awarded for conference attendance.

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

0.75 CEU will be awarded

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IN COOPERATION WITH:

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

19th ANNUAL GEOTECHNICAL SEMINAR

GEO-Omaha 2002

MARCH 1, 2002 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





2002

GEO-Omaha 2002 FRIDAY, MARCH 1,

ANNUAL GEOTECHNICAL SEMINAR, DR. JOSEPH BENAK

MAIL PAYMENT TO

CIVIL ENGINEERING and GEOTECHNICAL SEMINAR DEPARTMENT OF CIVIL ENGI UNIVERSITY OF NEBRASKA OMAHA, NEBRASKA 68182 PHONE: (402) 554-2463 FULL TIME STUDENTS please list College

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class

Registration fee is \$105.00 on or before February 22, 2002; \$130.00 after this date. Full time students pay \$25.00.

State

City

Phone (Area Code)

Name

Company Address

AMERICAN SOCIETY OF CIVIL ENGINEERS PRESENTS:

19[™] ANNUAL GEOTECHNICAL **SEMINAR** GEO-Omaha 2002

MARCH 1, 2002 **KIEWIT CONFERENCE CENTER OMAHA, NEBRASKA**

MORNING SESSION

7:30 - 8:00	Registration, Kiewit Conference Center
8:00 - 8:15	Welcome
8:15 - 9:15	"Field Investigations for Characterizing Expansive Soils" Mr. R. Gordon McKeen, P.E. Associate Director, ATR Institute, University of New Mexico
9:15 - 10:15	"Segmental Retaining Walls – Drainage" Dr. Robert Koerner, P.E., Ph.D. H. L. Bowman Professor of Civil Engineering, Drexel University, Director of the Geosynthetic Research Institute (GRI)
10:15 - 10:45	Break/Vendor Displays
10:45 - 11:45	"The Pressuremeter: Do's and Don'ts" Dr. Jean-Louis Briaud, P.E., Ph.D. Spencer J. Buchanan Professor of Civil Engineering, Texas A & M University
11:45 - 12:00	"EFA: A New Geotechnical Tool" Dr. Jean-Louis Briaud, P.E., Ph.D. Spencer J. Buchanan Professor of Civil Engineering, Texas A & M University
12:00 - 1:00	Lunch/Vendor Displays

AFTERNOON SESSION

1:00 - 1:45

	Mr. David Butler Chief Geophysicist, MicroGeophysics Corporation
1:45 - 2:30	"Lateral and Vertical Landfill Expansion" Dr. Robert Koerner, P.E., Ph.D. H. L. Bowman Professor of Civil Engineering, Drexel University, Director of the Geosynthetic Research Institute (GRI)
2:30 - 3:00	Break/Vendor Displays
3:00 - 3:45	"Design Concepts and Experience With Lime Cement Column Ground Stabilization: I-15 Salt Lake City, BART, and More" Dr. Melvin I. Esrig, P.E. Independent Geotechnical & Geoenviromental Consultant
3:45 - 4:30	"Innovative Geotechnical Solutions in Construction" Mr. Jim Morrison, P.E. Corporate Geotechnical Manager, Kiewit Engineering Company

Applications"

"Geophysical Myths, Legends, and

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 Contractors, Inc.
- Contech Construction Products, Inc.
- Geopier Foundation Company
- Geotechnical Services, Inc.
- Hayes Drilling Company
- Hayward Baker, Inc.*
- **Humboldt Manufacturing Company***
- Lumbermen's*
- MicroGeophysics Corporation
- Terracon
- Watkins Concrete Block Company, Inc.*
- * Conference Break Sponsors



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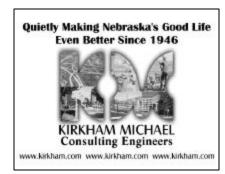




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For underwriting information, contact Ben Higgins, Fund-Raising Committee Chair, in Omaha at (402) 444-6222 or bhiggins@linux3.nrc.state.ne.us





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The Nebraska Civil Engineer

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IN THIS ISSUE:

Monthly Meeting Information President's Comments Omaha office recognized by ASCE Annual E-Week Banquet 19th Annual Geotechnical Seminar